Draft

DHS 109

Initial Study/Mitigated Negative Declaration

APPENDICES

Lead Agency:

City of Desert Hot Springs
11-999 Palm Drive
Desert Hot Springs, CA 92240

Prepared by:

The Altum Group
72140 Magnesia Falls Drive, Suite 1
Rancho Mirage, CA 92270



April 2021

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Appendix A

DHS 109 Lighting Plan

15TH AVENUE

FIXTURE TYPE 'A' (TYP.)

FIXTURE TYPE 'B' (TYP.)

FIXTURE TYPE 'A1' (TYP.)

STREET "F"

STREET "E"

PHASE 1

PHASE 2

1 2 3 4 5 6 7 8 9

19 18 17 16 15 14 13 12 11

BASIN 'C'

FIXTURE TYPE 'B1' (TYP.)

20 21 22 23 24 25 26 27

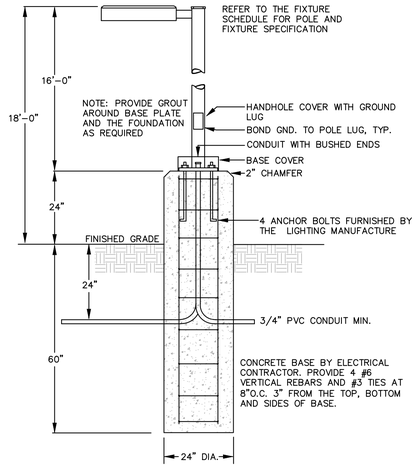
28 29 30 31

STREET "A"

STREET "D"

AVENUE

SHEET MATCHLINE
SEE SHEET E1.1



FIXTURE TYPE 'A' AND 'A1' DETAIL

DHS 109 INDUSTRIAL PARK

DESERT HOT SPRINGS, CA

NORTH

SCALE= 1"=60'-0"

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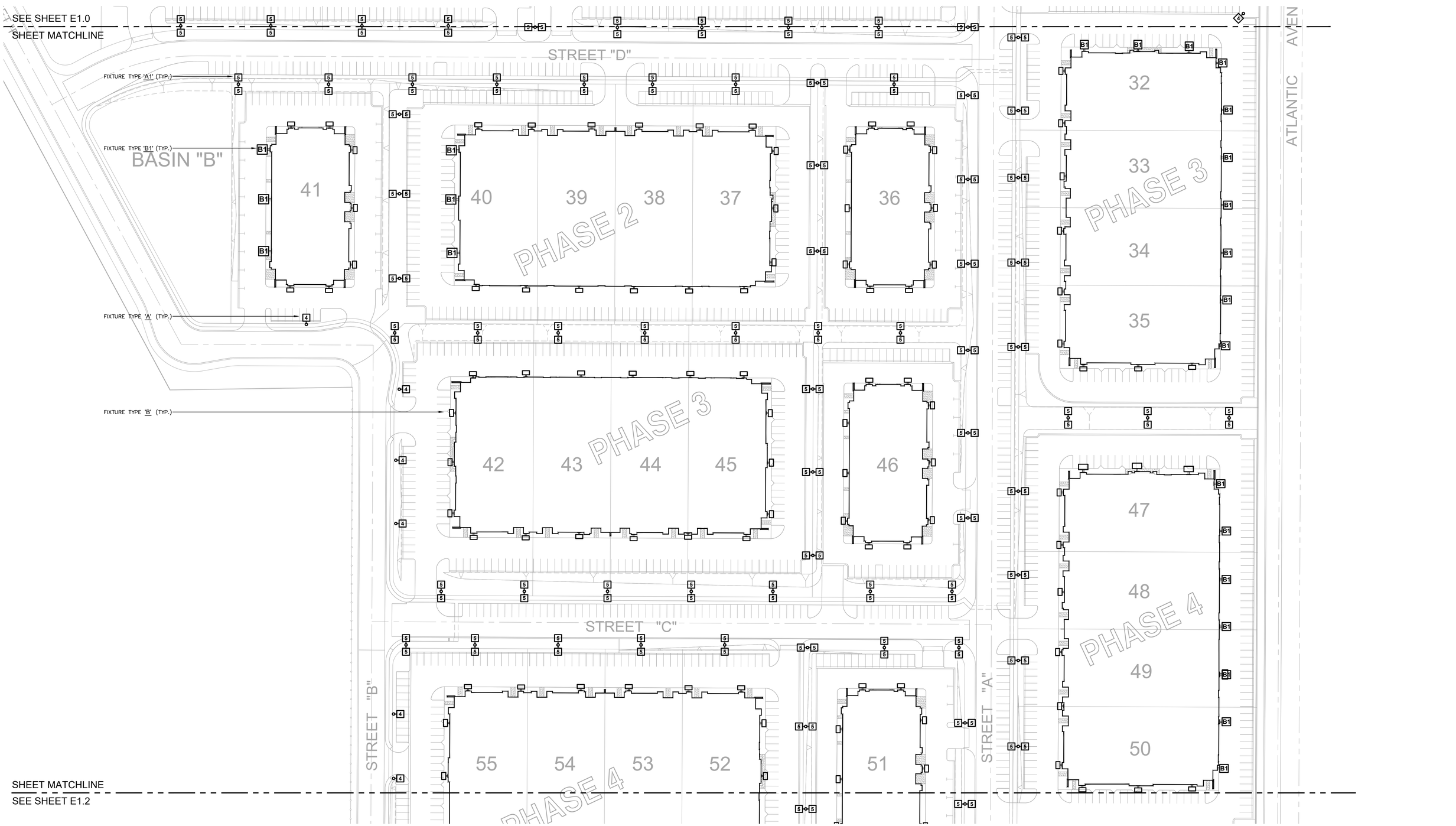
SITE LIGHTING PLAN

Sheet: E1.0

OCTOBER 11, 2019

SEE SHEET E1.0

SHEET MATCHLINE



SHEET MATCHLINE

SEE SHEET E1.2

DHS 109 INDUSTRIAL PARK

DESERT HOT SPRINGS, CA

NORTH

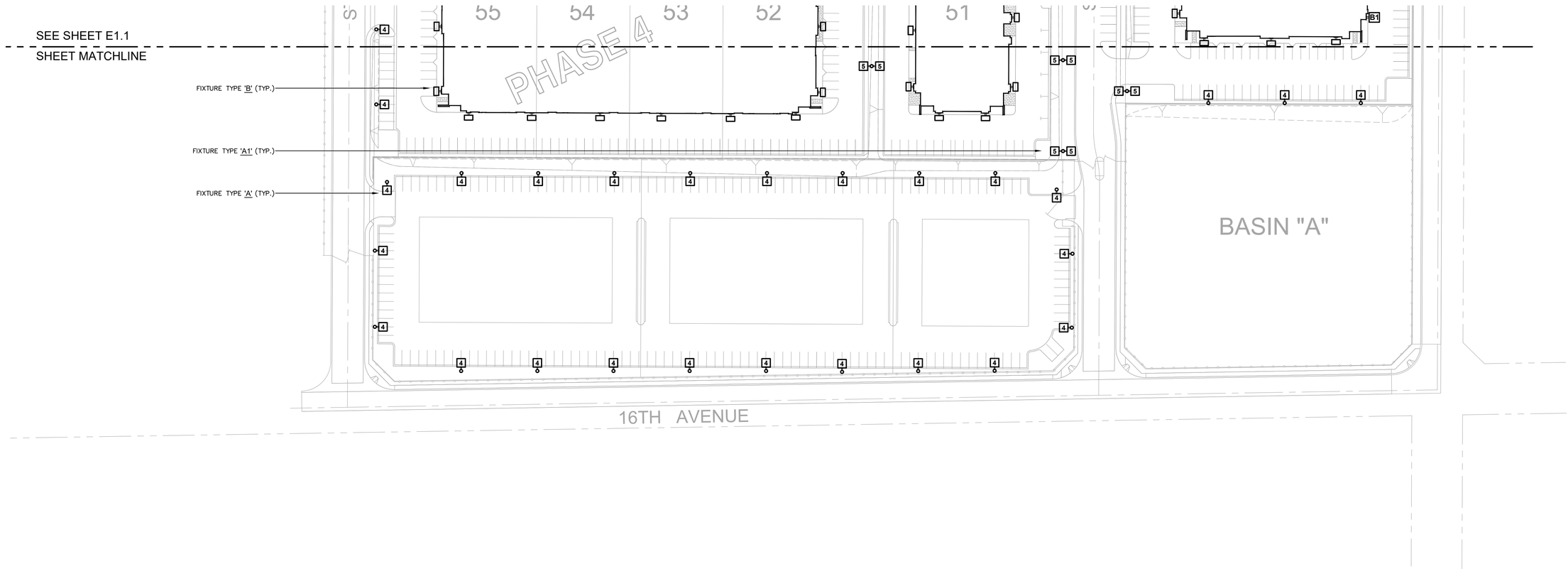
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SITE LIGHTING PLAN

Sheet: E1.1

OCTOBER 11, 2019



DHS 109 INDUSTRIAL PARK

DESERT HOT SPRINGS, CA

NORTH

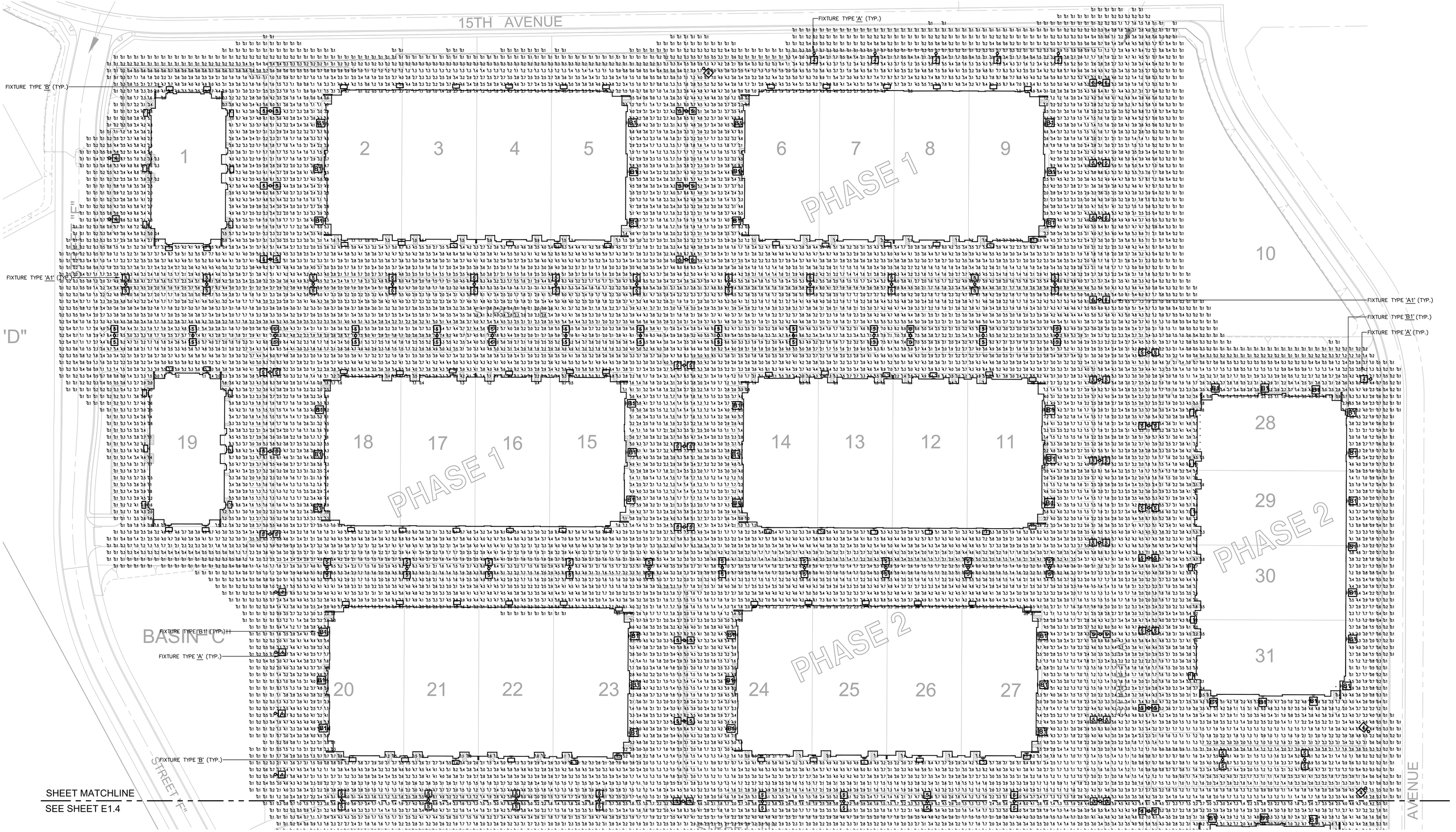
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SITE LIGHTING PLAN

Sheet: E1.2

OCTOBER 11, 2019



DHS 109 INDUSTRIAL PARK

DESERT HOT SPRINGS, CA

NORTH

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SITE PHOTOMETRIC PLAN

Sheet: E1.3

OCTOBER 11, 2019

SEE SHEET E1.3
SHEET MATCHLINE

FIXTURE TYPE 'A1' (TYP.)

FIXTURE TYPE 'B1' (TYP.)

FIXTURE TYPE 'A' (TYP.)

FIXTURE TYPE 'B' (TYP.)

BASIN "B"

PHASE 2

PHASE 3

PHASE 3

PHASE 4

PHASE 4

ATLANTIC AVENUE

41 40 39 38 37 36

32 33 34 35

42 43 44 45 46

47 48 49 50

55 54 53 52 51

SHEET MATCHLINE
SEE SHEET E1.5

DHS 109 INDUSTRIAL PARK

DESERT HOT SPRINGS, CA

NORTH

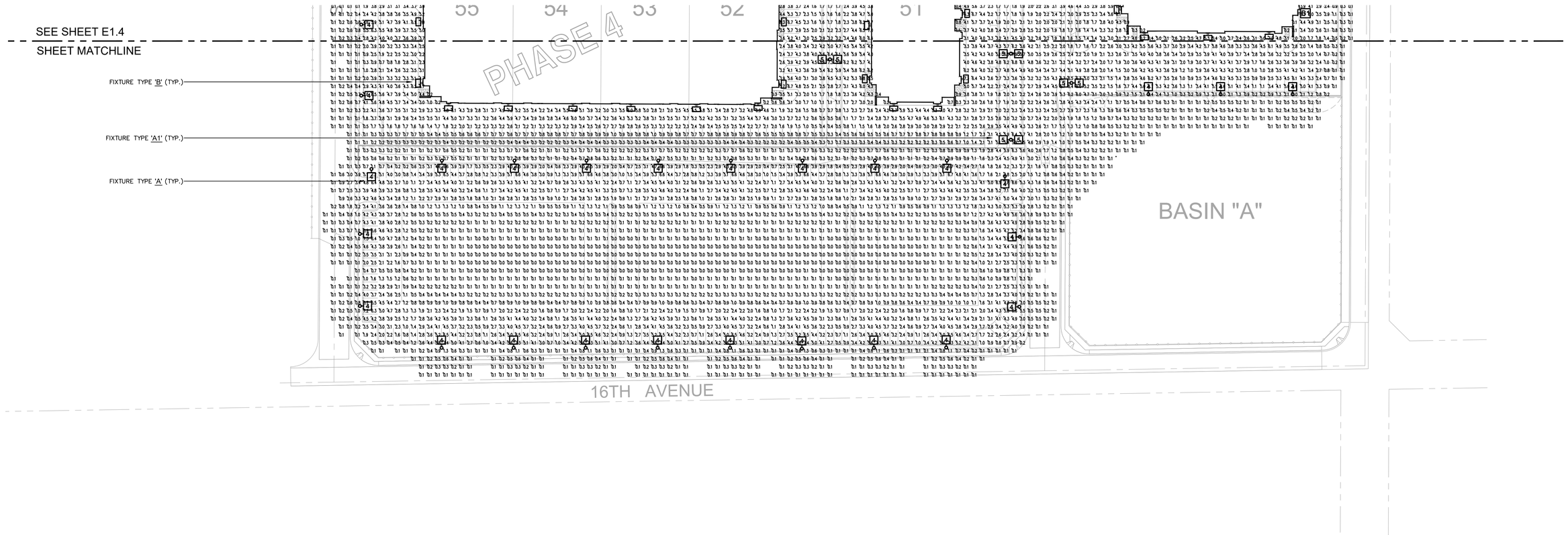
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SITE PHOTOMETRIC PLAN

Sheet: E1.4

OCTOBER 11, 2019



DHS 109 INDUSTRIAL PARK

DESERT HOT SPRINGS, CA

NORTH

SCALE= 1"=60'-0"

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SITE PHOTOMETRIC PLAN

Sheet: E1.5

OCTOBER 11, 2019

BEACON design · performance · technology

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

VIPER L

LARGE VIPER LUMINAIRE

optics STRIKE



FEATURES

- Large size companion to Viper Small
- Wide choice of different LED wattage configurations
- Ten optical distributions
- Designed to replace HID lighting up to 1000W MH or HPS
- Suitable for wet locations

C US DLC Premium ida

*3000K and warmer CCTs only

RELATED PRODUCTS

Viper Small

CONTROL TECHNOLOGY

NX DISTRIBUTED INTELLIGENCE · wiSCAPE · energi · SiteSync LIGHTING CONTROLS

SPECIFICATIONS

CONSTRUCTION

- Manufactured with die cast aluminum
- Coated with a polyester finish that meets ASTM B117 corrosion test requirements and ASTM D522 cracking and loss of adhesion test requirements
- IP5 polyester powder-coat electrostatically applied and thermocured. IP5 finish consists of a five stage pretreatment regimen with a polymer primer sealer and top coated with a thermoset super TGIC polyester powder coat finish
- The finish meets the AAMA 2604 performance specification which includes passing a 3,000 hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pounds
- External hardware is corrosion resistant

OPTICS

- Cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one-piece optical system
- One-piece silicone gasket ensures a weatherproof seal around each individual optic
- One-piece optical cartridge system consisting of an LED engine, optics, gasket and stainless steel bezel

INSTALLATION

- Mounting options for horizontal arm, vertical tenon or traditional arm mounting available. Mounting hardware included

ELECTRICAL

- Luminaire accepts 100V through 277V, 347V or 480V input 50 Hz to 60 Hz (UNV)
- Power factor is ≥ .90 at full load
- Dimming drivers are standard, but must contact factory to request wiring leads for purpose of external dimming controls
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is certified by UL for use at 600VAC at 90°C or higher
- Plug disconnects are certified by UL for use at 600 VAC, 13A or higher. 13A rating applies to primary (AC) side only
- Future electrical compartment contains all LED driver components and a push-button terminal block for AC power connections
- Optional 7-pin ANSI C136.41-2013 Twist-Lock® photo control receptacle available. Compatible with ANSI C136.41 external wireless control devices
- Ambient operating temperature -40°C to 25°C
- Surge protection: 20kA
- Lifeshield™ Circuit (see Electrical Data)

CONTROLS

- Available with an optional passive infrared (PIR) motion sensor capable of detecting motion 360° around the luminaire. When no motion is detected for the specified time, the motion response system reduces the wattage to factory preset level, reducing the light level accordingly. When motion is detected by the PIR sensor, the luminaire returns to full wattage and full light output. Please contact Beacon Products if project requirements vary from standard configuration
- Available with Energeni for optional set dimming, timed dimming with simple delay, or timed dimming based on time of night
- In addition, Viper can be specified with SiteSync™ wireless control system for reduction in energy and maintenance costs while optimizing light quality 24/7

CERTIFICATIONS

- DLC® (DesignLights Consortium) Qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org
- Certified to UL 1598 and UL 8750
- 3G rated for ANSI C136.31 high vibration applications with MAF mounting
- IDA approved
- This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available online

WARRANTY

- 5 year warranty
- See HLI Commercial and Industrial Outdoor Lighting Warranty for additional information

KEY DATA	
Lumen Range	14,283–39,969
Wattage Range	64–395
Efficacy Range (LPW)	98–135
Reported Life (Hours)	L70>377,000
Input Current Range (Amps)	0.3–4.0

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HUBBELL Lighting

BEACON design · performance · technology

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

VIPER L

LARGE VIPER LUMINAIRE

ORDERING GUIDE

Example: VPL–96L–280–4K7–4W–UNV–A–DB–TL–GENI–04–BC

CATALOG #: _____

VPL Series	LED Engine	CCT/CRI[1]	Distribution	Rotation	Voltage
VPL Viper Large	64L-135 18W LED array	3K7 3000K, 70 CRI	FR Type 1/Front Row	Blank No rotation	UNV 120–277V
	80L-180 180W LED array	4K7 4000K, 70 CRI	2 Type 2	L Optic rotation left[1]	347 347V
	80L-235 235W LED array	5K7 5000K, 70 CRI	3 Type 3	R Optic rotation right[1]	480 480V
	96L-220 220W LED array		4 Type 4		
	96L-280 280W LED array		4W Type 4 Wide		
	96L-315 315W LED array		SQM Type SQM		
	96L-395 395W LED array		SQN Type SQN		
			SR Type SR (rectangular)		
			SW Type SW (round wide)		
			TC Tennis Court		

Mounting	Color	Control Options	Options
A Rectangular Arm (formerly RA) for square or round pole	BL Black Textured	7PR 7-Pin Receptacle only (shorting cap, photo control, or wireless control provided by others)	F Fusing
MAF Mast Arm Fitter (formerly SF2) for 2¾" OD horizontal arm	DB Dark Bronze Textured	7PR-SC 7-Pin Receptacle w/Shorting Cap	BSP Bird Spikes
K Knuckle (formerly PK2) limit to 30° tilt or 2¾" OD horizontal arm or vertical tenon	GYS Light Gray Smooth	7PR-TL 7-Pin Receptacle w/Twist-Lock® photo control	BC Backshield (available for FR, 2, 3, 4, 4W Optics)
WB Wall Bracket	PS Platinum Silver Smooth	SCPI_F Programmable Occupancy Sensor w/ daylight control[1,2,5]	
AD Universal Arm for square pole	WH White Textured	GENI-XX ENERGENI®	
AD3 Adapter for 2.4"-4.7" round pole	CC Custom Color	SWP SiteSync Pre-Commission[1,4]	
AD4 Adapter for 4.2"–5.3" round pole		SWPM_F SiteSync Pre-Commission w/ Sensor[1,3,4]	
AD5 Adapter for 5.5"–5.9" round pole			
AD6 Adapter for 6.0"–6.5" round pole			

House Side Shield Accessories

- HSS/VP-L/90-FB/XXX 90° shield front or back
- HSS/VP-L/90-LR/XXX 90° shield left or right
- HSS/VP-L/270-FB/XXX 270° shield front or back
- HSS/VP-L/270-LR/XXX 270° shield left or right
- HSS/VP-L/360/XXX Full shield

Replace XXX with rotation for desired finish color. Refer to page 8 for shield images.

Mounting Accessories

- VPL-AD-RPA3 2.4"–4.1" Round Pole Adapter for AD arm
- VPL-AD-RPA4 4.2"–5.3" Round Pole Adapter for AD arm
- VPL-AD-RPA5 5.5"–5.9" Round Pole Adapter for AD arm
- VPL-AD-RPA6 6.0"–6.5" Round Pole Adapter for AD arm

Notes:
1 Not available with other wireless control or sensor options
2 Specify mounting height 8 – 8' or less, 40 = 9' to 40'
3 Specify routine setting code (example GENI-04). See ENERGENI brochure and instructions for setting table and options. Not available with sensor or SiteSync options
4 Specify group and zone at time of order. See www.hubbelllighting.com/sitesync for SiteSync™ product page. See SiteSync product page for SWGB or SWTAB.
Each option contains SiteSync License, GUI, and Bridge Node
5 Only available with FR, 2, 3, 4, 4W and SR distributions
6 Order at least one SCP-REMOTE per project location to program and control the occupancy sensor

Accessories and Services (Ordered Separately)

- SCP-REMOTE Remote Control for SCPI_F option. Order at least one per project to program and control the occupancy sensor
- SWUSB* SiteSync interface software loaded on USB flash drive for use with owner supplied PC (Windows based only). Includes SiteSync license, software and USB radio bridge node
- SWTAB* Windows tablet and SiteSync interface software. Includes tablet with preloaded software, SiteSync license and USB radio bridge node
- SWBRG SiteSync USB radio bridge node only. Order if a replacement is required or if an extra bridge node is requested
- SWTPR+ SiteSync 7-Pin on fixture module On/Off/Dim, Daylight Sensor 120–480VAC

* When ordering SiteSync, at least one of these two interface options must be ordered per project.
+ Available as a SiteSync retrofit solution for fixtures with an existing 7-pin receptacle.

Hubbell Control Solutions — Accessories (Sold Separately)

NX Distributed Intelligence™

- NXDFM-WHD-UNV On-fixture Module (7-pin), On / Off / Dim, Daylight Sensor with HubNET Radio and Bluetooth® Radio, 120–480VAC

wiSCAPE® Lighting Control

- WIR-RME-L On-fixture Module (7-pin or 5-pin), On / Off / Dim, Daylight Sensor with wiSCAPE Radio, 110–480VAC

For additional information related to these accessories please visit www.hubbellcontrolsolutions.com. Options provided for use with integrated sensor, please view specification sheet ordering information table for details.

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HUBBELL Lighting

BEACON design · performance · technology

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

VIPER L

LARGE VIPER LUMINAIRE

optics STRIKE



FEATURES

- Large size companion to Viper Small
- Wide choice of different LED wattage configurations
- Ten optical distributions
- Designed to replace HID lighting up to 1000W MH or HPS
- Suitable for wet locations

C US DLC Premium ida

*3000K and warmer CCTs only

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- The finish meets the AAMA 2604 performance specification which includes passing a 3,000 hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pounds
- External hardware is corrosion resistant

OPTICS

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- One-piece silicone gasket ensures a weatherproof seal around each individual optic
- One-piece optical cartridge system consisting of an LED engine, optics, gasket and stainless steel bezel

INSTALLATION

- Mounting options for horizontal arm, vertical tenon or traditional arm mounting available. Mounting hardware included

ELECTRICAL

- Luminaire accepts 100V through 277V, 347V or 480V input 50 Hz to 60 Hz (UNV)
- Power factor is ≥ .90 at full load
- Dimming drivers are standard, but must contact factory to request wiring leads for purpose of external dimming controls
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is certified by UL for use at 600VAC at 90°C or higher
- Plug disconnects are certified by UL for use at 600 VAC, 13A or higher. 13A rating applies to primary (AC) side only
- Future electrical compartment contains all LED driver components and a push-button terminal block for AC power connections
- Optional 7-pin ANSI C136.41-2013 Twist-Lock® photo control receptacle available. Compatible with ANSI C136.41 external wireless control devices
- Ambient operating temperature -40°C to 25°C
- Surge protection: 20kA
- Lifeshield™ Circuit (see Electrical Data)

CONTROLS

- Available with an optional passive infrared (PIR) motion sensor capable of detecting motion 360° around the luminaire. When no motion is detected for the specified time, the motion response system reduces the wattage to factory preset level, reducing the light level accordingly. When motion is detected by the PIR sensor, the luminaire returns to full wattage and full light output. Please contact Beacon Products if project requirements vary from standard configuration
- Available with Energeni for optional set dimming, timed dimming with simple delay, or timed dimming based on time of night (see Energeni product page for more details www.beaconproducts.com/products/energeni).

CERTIFICATIONS

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Efficacy Range (LPW)	98–135
Reported Life (Hours)	L70>377,000
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HUBBELL Lighting

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DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

VIPER L

LARGE VIPER LUMINAIRE

ORDERING GUIDE

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	96L-220 220W LED array		4 Type 4		
	96L-280 280W LED array		4W Type 4 Wide		
	96L-315 315W LED array		SQM Type SQM		
	96L-395 395W LED array		SQN Type SQN		
			SR Type SR (rectangular)		
			SW Type SW (round wide)		
			TC Tennis Court		

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AD5 Adapter for 5.5"–5.9" round pole			
AD6 Adapter for 6.0"–6.5" round pole			

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- HSS/VP-L/270-LR/XXX 270° shield left or right
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- VPL-AD-RPA6 6.0"–6.5" Round Pole Adapter for AD arm

Notes:
1 Not available with other wireless control or sensor options
2 Specify mounting height 8 – 8' or less, 40 = 9' to 40'
3 Specify routine setting code (example GENI-04). See ENERGENI brochure and instructions for setting table and options. Not available with sensor or SiteSync options
4 Specify group and zone at time of order. See www.hubbelllighting.com/sitesync for SiteSync™ product page. See SiteSync product page for SWGB or SWTAB.
Each option contains SiteSync License, GUI, and Bridge Node
5 Only available with FR, 2, 3, 4, 4W and SR distributions
6 Order at least one SCP-REMOTE per project location to program and control the occupancy sensor

Accessories and Services (Ordered Separately)

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- SWTAB* Windows tablet and SiteSync interface software. Includes tablet with preloaded software, SiteSync license and USB radio bridge node
- SWBRG SiteSync USB radio bridge node only. Order if a replacement is required or if an extra bridge node is requested
- SWTPR+ SiteSync 7-Pin on fixture module On/Off/Dim, Daylight Sensor 120–480VAC

* When ordering SiteSync, at least one of these two interface options must be ordered per project.
+ Available as a SiteSync retrofit solution for fixtures with an existing 7-pin receptacle.

Hubbell Control Solutions — Accessories (Sold Separately)

NX Distributed Intelligence™

- NXDFM-WHD-UNV On-fixture Module (7-pin), On / Off / Dim, Daylight Sensor with HubNET Radio and Bluetooth® Radio, 120–480VAC

wiSCAPE® Lighting Control

- WIR-RME-L On-fixture Module (7-pin or 5-pin), On / Off / Dim, Daylight Sensor with wiSCAPE Radio, 110–480VAC

For additional information related to these accessories please visit www.hubbellcontrolsolutions.com. Options provided for use with integrated sensor, please view specification sheet ordering information table for details.

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HUBBELL Lighting

4 LIGHT FIXTURE TYPE 'A'

5 LIGHT FIXTURE TYPE 'A1'

TRAVERSE SERIES

SURFACE/CEILING/GARAGE

Cat.#

Job

Type

BEACON design · performance · technology

Approvals

SPECIFICATIONS

Intended Use:
The Traverse luminaire is a wall surface mounted luminaire with a field replaceable LED light engine & optical bezel system. Internal components are totally enclosed in rain-tight and corrosion-resistant die cast aluminum housing. The TRV Luminaire is suitable for wet locations when ordered as a downlight.

Construction:
- Traverse luminaire consists of a die cast aluminum two-piece housing.
- Die cast main (thermal) housing provides direct heat exchange between the LED light engine & the fin cooling.
- LED drivers are thermally isolated from the main housing, mechanically attached and heat sinked to the rear housing.
- Shape of the main housing is designed to prevent debris accumulation and as a bird nesting deterrent. The back and main housings are designed to hinge open for easy mounting and easy access.

LED/Optics:
- Optical one piece cartridge system consisting of an LED engine, LED lamps, optics, gasket and stainless steel bezel.
- Cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one piece optical system.
- A die cut silicone foam gasket ensures a weather-proof seal around each individual LED optic and is held in place without the use of adhesives
- Cartridge assembly is available in various lighting distributions using TIR designed acrylic optical lenses over each LED.

Electrical:
- 100V through 277V, 50 Hz to 60 Hz (UNV, 347/480V).
- Dimming drivers are standard, but must contact factory to request wiring leads for purpose of external dimming controls
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is certified by UL for use at 600 VAC at 90°C or higher.
- Plug disconnects are certified by UL for use at 600 VAC, 13A or higher. 13A rating applies to primary (AC) side only.
- Surge protection - 20kA

Controls/Options:
- Traverse is available with an optional passive infrared (PIR) motion sensor capable of detecting motion 360° around the luminaire. When no motion is detected for the specified time, the Motion Response system reduces the wattage down to a factory preset level, reducing light level accordingly. When motion is detected, the luminaire returns to full wattage and full light output. Please contact Beacon Products if project requirements vary from the standard configurations.
- Available with Energeni for optional set dimming, timed dimming with simple delay, or timed dimming based on time of night (see Energeni product page for more details www.beaconproducts.com/products/energeni).
- In addition, Traverse can be specified with SiteSync™ wireless control system for reduction in energy and maintenance cost while optimizing light quality 24/7. See ordering information or visit for more details: www.hubbell-automation.com/products/sitesync/

Installation:
- Rear housing (back plate) is designed with various bolt patterns for direct wall mounting or mounting to a recessed junction box.
- Rear housing has three integral 3/4" NPT power feed locations (bottom and each side) for surface mounted conduit applications.
- After mounting the rear housing to the wall or junction box, the main housing is designed to attach and hinge closed after connecting the male and female quick connectors.
- Mounting design permits a simple retrofit to existing wall luminaires that utilize or recessed junction boxes.

Finish:
- IP5 polyester powder-coat electrostatically applied and thermocured.
- IP5 finish consists of a five stage iron phosphate chemical pretreatment regimen with a polymer primer sealer, oven dry off, and top coated with a thermoset super TGIC polyester powder coat finish.
- The finish meets the AAMA 2604 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pounds.

Listings:
- The luminaire shall bear a CSA label and be marked suitable for wet locations (standard).
- This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at: http://www.beaconproducts.com/products/traverse

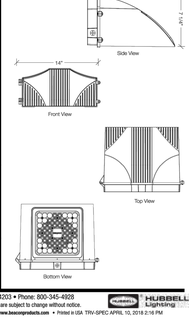
Warranty:
Five year limited warranty for more information visit: www.hubbelllighting.com/resources/warranty

PRODUCT IMAGE(S)



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DIMENSIONS



CERTIFICATIONS/LISTINGS

C US DLC Premium ida

*3000K and warmer CCTs only

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ORDERING INFORMATION ORDERING EXAMPLE: TRV-D/60L-136/5K7/SR/UNV/GENIXX/PEC-208/BL

SERIES	ENGINE-WATTS	CCT/CRI[1]	OPTICS	CONTROL OPTIONS	FINISH
TRV-D Traverse Downlight	24L-27 27 Watts - LED array	3K7 3000K, 70 CRI	2 Type II	GENI-XX[2] Energeni	BL Black textured
TRV-UP Traverse Up Light (ambient light)	36L-40 40 Watts - LED array	4K7 4000K, 70 CRI	3 Type III	SWP[3,4] SiteSync Wireless Pre-Commission	DB Dark bronze
	48L-110 110 Watts - LED array	5K7 5000K, 70 CRI	4 Type IV	SWPM[3,4] SiteSync Wireless Pre-Commission w/ Occupancy Sensor	GYS Light gray smooth
	60L-136 136 Watts - LED array		SR Type V, rectangular		PS Platinum silver
			2X2 Narrow spot flood		WH White textured
			5X5 Medium flood		

VOLTAGE	SENSOR OPTIONS	ELECTRICAL OPTIONS
UNV 120-277V	MOB[3,4,5] Occupancy Sensor (33% or 50% dimming)	PEC-120 photocell, button 120V
347 347V		PEC-208 photocell, button 208V
480 480V		PEC-240 photocell, button 240V
		PEC-277 photocell, button 277V
		2PF[3,4,10] Dual power feed
		BPC* Cold weather battery pack

[1] Indoor use only
[2] Not available on 24L-27
[3] Not available @ 347V or 480V input
[4] 36L-40 only, not available with SWP or SWPM control options
[5] Not available on 48L-110 or 60L-136
[6] When ordering Energeni, specify the routine setting code (example GENI-04). See Energeni brochure and instructions for setting table and options. Not available with sensor options.
[7] Not available with other control or sensor options. PEC is available with MOB.
[8] Specify group and zone. See SiteSync product page www.hubbell-automation.com/products/sitesync/ for SiteSync options.
[9] Specify time delay, dimming level and mounting height.
[10] Not available with SWP or SWPM control options.
[11] This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at: http://cdn.beaconproducts.com/content/products/specs/specs_files/Traverse_LED_turtle_spec_sheet.pdf

PRECOMMISSIONED SITESYNC ORDERING INFORMATION: When ordering a fixture with the SiteSync lighting control option, additional information will be required to complete the order. The SiteSync Commissioning Form or alternate schedule information must be completed. This form includes Project location, Group information, and Operating schedules. For more detailed information please visit www.hubbelllighting.com/products/sitesync/ or contact Hubbell Lighting tech support at (800) 345-4928.

SiteSync fixtures with occupancy sensor (SWPM) require the mounting height of the fixture for selection of the lens.

Examples: TRV-24L-SS/5K7/UNV/SWP/BL — SiteSync only
TRV-24L-SS/5K7/UNV/SWPM-20F/BL — SiteSync with Occupancy Sensor

MOB ORDERING INFORMATION: When ordering a fixture with a dimming occupancy sensor option (MOB), please specify the appropriate information. These settings are specified in the ordering as shown in the example below.

TRV-24L-SS/5K7/UNV/MOB - [1 to 20 min. | 20% or 50%] - [7F | 4F] / BL

High to Dim Delay · Low Level · Mounting Height (ft.)

SiteSync

SiteSync Lighting Control is available from our most popular brands in a broad range of award-winning product families.

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B LIGHT FIXTURE TYPE 'B'

B1 LIGHT FIXTURE TYPE 'B1'

TRAVERSE SERIES

SURFACE/CEILING/GARAGE

Cat.#

Job

Type

BEACON design · performance · technology

Approvals

SPECIFICATIONS

Intended Use:
The Traverse luminaire is a wall surface mounted luminaire with a field replaceable LED light engine & optical bezel system. Internal components are totally enclosed in rain-tight and corrosion-resistant die cast aluminum housing. The TRV Luminaire is suitable for wet locations when ordered as a downlight.

Construction:
- Traverse luminaire consists of a die cast aluminum two-piece housing.
- Die cast main (thermal) housing provides direct heat exchange between the LED light engine & the fin cooling.
- LED drivers are thermally isolated from the main housing, mechanically attached and heat sinked to the rear housing.
- Shape of the main housing is designed to prevent debris accumulation and as a bird nesting deterrent. The back and main housings are designed to hinge open for easy mounting and easy access.

LED/Optics:
- Optical one piece cartridge system consisting of an LED engine, LED lamps, optics, gasket and stainless steel bezel.
- Cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one piece optical system.
- A die cut silicone foam gasket ensures a weather-proof seal around each individual LED optic and is held in place without the use of adhesives
- Cartridge assembly is available in various lighting distributions using TIR designed acrylic optical lenses over each LED.

Electrical:
- 100V through 277V, 50 Hz to 60 Hz (UNV, 347/480V).
- Dimming drivers are standard, but must contact factory to request wiring leads for purpose of external dimming controls
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is certified by UL for use at 600 VAC at 90°C or higher.
- Plug disconnects are certified by UL for use at 600 VAC, 13A or higher. 13A rating applies to primary (AC) side only.
- Surge protection - 20kA

Controls/Options:
- Traverse is available with an optional passive infrared (PIR) motion sensor capable of detecting motion 360° around the luminaire. When no motion is detected for the specified time, the Motion Response system reduces the wattage down to a factory preset level, reducing light level accordingly. When motion is detected, the luminaire returns to full wattage and full light output. Please contact Beacon Products if project requirements vary from the standard configurations.
- Available with Energeni for optional set dimming, timed dimming with simple delay, or timed dimming based on time of night (see Energeni product page for more details www.beaconproducts.com/products/energeni).
- In addition, Traverse can be specified with SiteSync™ wireless control system for reduction in energy and maintenance cost while optimizing light quality 24/7. See ordering information or visit for more details: www.hubbell-automation.com/products/sitesync/

Installation:
- Rear housing (back plate) is designed with various bolt patterns for direct wall mounting or mounting to a recessed junction box.
- Rear housing has three integral 3/4" NPT power feed locations (bottom and each side) for surface mounted conduit applications.
- After mounting the rear housing to the wall or junction box, the main housing is designed to attach and hinge closed after connecting the male and female quick connectors.
- Mounting design permits a simple retrofit to existing wall luminaires that utilize or recessed junction boxes.

Finish:
- IP5 polyester powder-coat electrostatically applied and thermocured.
- IP5 finish consists of a five stage iron phosphate chemical pretreatment regimen with a polymer primer sealer, oven dry off, and top coated with a thermoset super TGIC polyester powder coat finish.
- The finish meets the AAMA 2604 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pounds.

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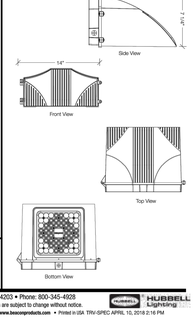
Warranty:
Five year limited warranty for more information visit: www.hubbellighting.com/resources/warranty

PRODUCT IMAGE(S)



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DIMENSIONS



CERTIFICATIONS/LISTINGS

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*3000K and warmer CCTs only

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		PEC-277 photocell, button 277V
		2PF[3,4,10] Dual power feed
		BPC* Cold weather battery pack

[1] Indoor use only
[2] Not available on 24L-27
[3] Not available @ 347V or 480V input
[4] 36L-40 only, not available with SWP or SWPM control options
[5] Not available on 48L-110 or 60L-136
[6] When ordering Energeni, specify the routine setting code (example GENI-04). See Energeni brochure and instructions for setting table and options. Not available with sensor options.
[7] Not available with other control or sensor options. PEC is available with MOB.
[8] Specify group and zone. See SiteSync product page www.hubbell-automation.com/products/sitesync/ for SiteSync options.
[9] Specify time delay, dimming level and mounting height.
[10] Not available with SWP or SWPM control options.
[11] This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at: http://cdn.beaconproducts.com/content/products/specs/specs_files/Traverse_LED_turtle_spec_sheet.pdf

PRECOMMISSIONED SITESYNC ORDERING INFORMATION: When ordering a fixture with the SiteSync lighting control option, additional information will be required to complete the order. The SiteSync Commissioning Form or alternate schedule information must be completed. This form includes Project location, Group information, and Operating schedules. For more detailed information please visit www.hubbelllighting.com/products/sitesync/ or contact Hubbell Lighting tech support at (800) 345-4928.

SiteSync fixtures with occupancy sensor (SWPM) require the mounting height of the fixture for selection of the lens.

Examples: TRV-24L-SS/5K7/UNV/SWP/BL — SiteSync only
TRV-24L-SS/5K7/UNV/SWPM-20F/BL — SiteSync with Occupancy Sensor

MOB ORDERING INFORMATION: When ordering a fixture with a dimming occupancy sensor option (MOB), please specify the appropriate information. These settings are specified in the ordering as shown in the example below.

TRV-24L-SS/5K7/UNV/MOB - [1 to 20 min. | 20% or 50%] - [7F | 4F] / BL

High to Dim Delay · Low Level · Mounting Height (ft.)

SiteSync

SiteSync Lighting Control is available from our most popular brands in a broad range

Appendix B

Air Quality, Greenhouse Gas Emissions, and Health Risk Assessment Impact Analysis

DHS 109 BUSINESS PARK AIR QUALITY, GHG, AND HRA IMPACT ANALYSIS

City of Desert Hot Springs

July 17, 2020



Traffic Engineering ● Transportation Planning ● Parking ● Noise & Vibration
Air Quality ● Global Climate Change ● Health Risk Assessment

DHS 109 BUSINESS PARK AIR QUALITY, GHG, AND HRA IMPACT ANALYSIS

City of Desert Hot Springs

July 17, 2020

prepared by
Catherine Howe, MS
Katie Wilson, MS

GANDDINI GROUP INC
550 Parkcenter Drive, Suite 202
Santa Ana, CA 92705
(714) 795-3100 | www.ganddini.com

01-6627

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EXECUTIVE SUMMARY

The purpose of this air quality and global climate change impact analysis is to provide an assessment of the impacts resulting from development of the proposed DHS 109 Business Park project and to identify measures that may be necessary to reduce potentially significant impacts.

CONSTRUCTION-SOURCE EMISSIONS

With incorporation of mitigation, project construction-source emissions would not exceed applicable regional thresholds of significance established by the SCAQMD. SCAQMD Rule 403.1 requires the project obtain and prepare a Fugitive Dust Control Plan. For localized emissions, the project will not exceed applicable Localized Significance Thresholds (LSTs) established by the SCAQMD.

With incorporation of mitigation, project construction-source emissions would not conflict with the Basin Air Quality Management Plan (AQMP). As discussed herein, the project will comply with all applicable SCAQMD construction-source emission reduction rules and guidelines. Project construction source emissions would not cause or substantively contribute to violation of the California Ambient Air Quality Standards (CAAQS) or National Ambient Air Quality Standards (NAAQS).

Established requirements addressing construction equipment operations, and construction material use, storage, and disposal requirements act to minimize odor impacts that may result from construction activities. Moreover, construction-source odor emissions would be temporary, short-term, and intermittent in nature and would not result in persistent impacts that would affect substantial numbers of people. Potential construction-source odor impacts are therefore considered less than significant.

OPERATIONAL-SOURCE EMISSIONS

The project operational-sourced emissions would not exceed applicable regional thresholds of significance established by the SCAQMD. Project operational-source emissions would not result in or cause a significant localized air quality impact as discussed in the Operations-Related Local Air Quality Impacts section of this report. Additionally, project-related trips will not cause or result in CO concentrations exceeding applicable state and/or federal standards (CO “hotspots). Project operational-source emissions would therefore not adversely affect sensitive receptors within the vicinity of the project.

Project operational-source emissions would not conflict with the Basin Air Quality Management Plan (AQMP). The project's emissions meet SCAQMD regional thresholds and will not result in a significant cumulative impact. The project is subject to odor-controlled based regulation for botanical cultivation facilities and does not propose any other such uses or activities that would result in potentially significant operational-source odor impacts. Potential operational-source odor impacts are therefore considered less than significant.

GREENHOUSE GASES

With incorporation of project design features, project-related GHG emissions do not exceed the SCAQMD screening threshold of 10,000 MTCO2e per year for industrial uses, and GHG emissions are considered to be less than significant.

Furthermore, as the project's GHG emissions do not exceed the SCAQMD screening threshold (based on EO S-3-05), the project would not conflict with the goals of SB-32 and the City of Desert Hot Springs Climate Action Plan; therefore, the project would not conflict with an applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases and impacts are considered to be less than significant.

1. INTRODUCTION

This section describes the purpose of this air quality and global climate change impact analysis, project location, proposed development, and study area. Figure 1 shows the project location map and Figure 2 illustrates the project site plan.

PURPOSE AND OBJECTIVES

This study was performed to address the possibility of regional/local air quality impacts and global climate change impacts, from project related air emissions. The objectives of the study include:

- documentation of the atmospheric setting
- discussion of criteria pollutants and greenhouse gases
- discussion of the air quality and global climate change regulatory framework
- discussion of the air quality, greenhouse gases, and cancer risk thresholds of significance
- analysis of the construction related air quality and greenhouse gas emissions
- analysis of the operations related air quality and greenhouse gas emissions
- analysis of the operations related cancer risk from diesel emissions
- analysis of the conformity of the proposed project with the SCAQMD AQMP
- recommendations for mitigation measures to reduce criteria pollutant emissions and project design features to reduce greenhouse gas emissions

The City of Desert Hot Springs is the lead agency for this air quality and greenhouse gas analysis, in accordance with the California Environmental Quality Act authorizing legislation. Although this is a technical report, every effort has been made to write the report clearly and concisely. To assist the reader with terms unique to air quality and global climate change, a definition of terms has been provided in Appendix A.

PROJECT LOCATION

The proposed project is located east of Little Morongo Road between 15th Avenue and 16th Avenue in the City of Desert Hot Springs. Project site APNs include: 665-080-005, 665-080-007, and 665-050-028. A vicinity map showing the project location is provided on Figure 1.

According to the SCAQMD's MATES-IV study, the project area has an estimated cancer risk of 259.24 in one million chance of cancer. In comparison the average cancer risk for the Coachella Valley portion of Riverside County is 139 in one million. This increased cancer risk is largely due to the proximity to the I-10 Freeway.

PROJECT DESCRIPTION

The project site is proposed to include an industrial park consisting of 57 condo lots that will accommodate a combination of general light industrial, cannabis (cultivation, manufacturing, distribution, etc.), and large scale energy/utility facilities land uses on approximately 109 acres. The proposed project will include 236,180 square feet of general light industrial uses, 761,770 square feet of industrial park (cannabis activity), and 286,230 square feet for large-scale energy/utility uses for a total of 1,284,180 square feet.[1] The northwestern

[1] This Air Quality Analysis was modeled per a previous version of the proposed site plan and includes 364,180 square feet of general light industrial use and 920,000 square feet of industrial park (cannabis activity) use for a total building square footage of 1,284,180 square feet. Therefore, the analysis provided in this report is conservative and shows a worst-case analysis as the general light industrial and industrial park square footages have since been decreased to 236,180 square feet of general light industrial uses and 761,770 square feet of industrial park (cannabis activity) use. In addition, the total building square footage of 1,284,180 square feet modeled in this report for project construction is be the same as the previous version of the Power Reclamation Facility was not anticipated to be housed in buildings. The square footage of the Power Reclamation Facility buildings equals the square footage reduction of the industrial uses. The Power Reclamation Facility emissions were added to the calculated industrial emissions.

most portion the project site (approximately 4.5 acres) will remain undeveloped. The proposed project will include 4 retention basins, totaling 4.28 acres. The remainder of the project site will be developed with a roadway system with approximately 2,879 parking stalls provided, including 38 American's Disabilities Act (ADA) parking stalls. Furthermore, the proposed project will include carports to provide adequate shade cover for onsite parking. Proposed carports will also be designed for installation and operation of photovoltaic (PV) panels to provide onsite electricity.

Project Components

Industrial Development

Numbered condo lots 1 through 55 will be developed with modular industrial buildings. Two different modular buildings will be used. Building Type A will encompass a single numbered lot. Lots developed with Building Type A will include a 23,210 square-foot structure. Building Type B will encompass four numbered lots. Lots developed with Building Type B will include a 95,410 square-foot structure.

Construction and operation of the proposed modular industrial buildings will follow an approach to use natural "energy reduction" by design that will incorporate the latest proven technology in:

- Building envelope design with a combination of shading, insulation and high-performance coating materials;
- Water service, purification and treatment design that would use a dual waste system for both solid and liquid waste, the "brown water" and condensate harvesting would be collected, treated and reused in the "non-potable" water systems;
- Building heating and cooling systems would use a combination of absorption and vapor compression equipment for both process and space cooling and Liquid-to-Liquid "Heat Exchangers" for process and space heating;
- Lighting and illumination design would use a combination of natural and LED lighting technology coupled with digital control systems; and
- Building automation systems design would use load monitoring and shedding technology to optimize power generation and minimize power demand through AI software "Smart" technology that identifies and optimizes energy use patterns.

Power and Reclamation Facility

The proposed project will include a power and reclamation facility (PRF) that includes a combination of alternative energy source design features that will provide energy and reclamation services to the project site. Lots 28-31, 32-35, and 47-50 located on the frontage of Atlantic Avenue encompass three Type B buildings that will be decimated for construction and operation of the PRF. Each building utilized for the PRF proposes a maximum height of 55 feet to compensate for the proposed exhaust columns (i.e., boilers). The proposed PRF buildings are the farthest buildings located away from Little Morongo Road and the proposed parapets would obscure views of the exhaust columns of the PRF. The applicant is requesting for an administrative height variance for all dedicated buildings for the proposed PRF for an addition of up to five (5) feet for purposes of allowing sufficient operational height for PRF features such as the proposed cooling towers. Lack of provision of the requested five (5) feet would affect operational capability of the proposed PRF and prevent for alternative energy production and reclamation capabilities.

The PRF will use a combination natural gas fired turbines and reciprocal engines, while the proposed project's peak power generation will be done through a combination of thermal and photovoltaic (PV) solar arrays coupled with battery and thermal energy storage systems. The PRF will also include chilled water and heating water loops to use the waste heat from the onsite power generation to provide heating and air conditioning through the use of absorption chilling for process and space cooling and heat transfer fluid to water heat-

exchangers for space and process. In tandem with the solar panel carports, the PRF is anticipated to produce more energy than is needed for the proposed project.

The PRF will meet utility level reliability in operation and comply with all applicable building code and regulatory requirements. The PRF will meet an N+1 equipment environment that ensures that the PRF's systems remain available and operational in the event of component(s) failure. Furthermore, the PRF would operate as a semi closed-loop facility through utilization of reclaimed waste products (i.e., exhaust gases, green waste, wastewater, etc.) derived from onsite operations (i.e., cannabis cultivation) and operations within the PRF itself. The reclaimed waste products will serve as feedstocks for the various power and reclamation systems of the PRF.

The power and reclamation facility will provide the following power and reclamation services:

Electrical Power Generation

Within the PRF, natural gas fired turbine generators would be used as the source of electrical power generation for the proposed project. Natural gas fired turbine generators are proposed to be built in phases concurrent with the proposed phasing of the proposed project buildings. The overall production capacity of the natural gas fired turbines at project build-out would be 60 megawatts (MW). The proposed phased development (discussed below) of the natural gas fired turbine generators would be the following:

- Phase 1 = 20 MW Production Capacity
- Phase 2 = 20 MW Production Capacity
- Phase 3 = 10 MW Production Capacity
- Phase 4 = 10 MW Production Capacity

The natural gas fired turbine generators would be designed to provide local export of excess power to neighboring uses if an agreement between the applicant, City and the local energy purveyor is established at a future time. For purposes of analysis, the natural gas fired turbine generators would not be exporting any excess power to neighboring uses.

Waste Heat Recovery (Steam and Hot Water Systems)

Waste heat recovery, of the PRF, would utilize exhaust gases from the natural gas fired turbine generators to provide an opportunity to extract further low-level heat in order to allow for either the generation of low pressure steam, generation of hot water, or any combination of the two. Conversion of exhaust gases into low-level heat can allow for generation of electricity and direct chilled water. Electricity generation would use Organic Rankine Cycle generators for bottoming power cycle to generate power that can be used to drive mechanical chillers/refrigeration systems. Direct chilled water would utilize lower pressure steam or hot water (or any combination of the two) to run absorption chillers to produce chilled water for sale to agricultural users within the industrial park.

Chilled Water

Chilled water would be produced within the PRF and be used for management of the grow room temperature and humidity within each modular industrial building.

Generation of chilled water requires the installation of cooling water towers within the PRF to address final disposition of lowest level of waste heat. Cooling water towers will require significant water and power to operate, however, are more efficient relative to multiple smaller chilling systems which would otherwise be installed within each proposed industrial modular building. Sizing of the cooling towers will be determined at final design of the proposed project.

Pure (Reverse Osmosis) Quality Water

The PRF would include a reverse osmosis (RO) water treatment system to upgrade municipal water and recycled (grey) water to high standards which allows distribution for use by potential agricultural tenants within the proposed project. The RO water treatment system would facilitate management of wastewater and associated compliance with discharge permits. Additionally, the RO water treatment system would provide an agricultural feed of high-quality water to agricultural tenants of the proposed project to reduce crop failure issues.

Fire Water System

The PRF would include a fire water system to serve the entire project site in order to meet the regulatory requirements for the proposed project. It is anticipated that the sizing of the distribution mains will need to address future build-out of the proposed project.

Grey/Wastewater Recovery Treatment

The PRF will include grey/wastewater recovery treatment to reclaim onsite wastewater generated in office buildings from sinks, baths, washing machines, etc. Grey/wastewater is anticipated to be available from the following onsite sources:

- Byproduct of humidity control (water of plant respiration);
- Collection of process drains (wash down water, etc.) from both utility and proposed building systems;
- Recycling of process and dilution water used in the Bio-Digestion system(s) of the PRF; and
- Cooling Tower.

Water Distribution

The PRF will have the capability to serve as a point of distribution of potable water for domestic uses only to the proposed buildings.

Carbon Dioxide gas – Generation and Distribution

Carbon dioxide (CO_2) gas is used to enrich the growing atmosphere of the crops to improve productivity of the plants. Capture of carbon dioxide is anticipated to be captured from the cooled exhaust gases of the natural gas fired turbine generators. Several technologies exist for capture and will be evaluated for best economic value versus the production need prior to final design.

Agricultural Waste Management

The PRF will include a Bio-Digester system to facilitate capture and management of agricultural waste produced onsite. Agricultural waste from the production facilities must be cataloged and disposed of via a tracking system to a licensed landfill facility in the State. Several landfill facilities are operating in the greater Los Angeles area. Provision of onsite waste management services via installation of a licensed agricultural waste disposal system (Bio-Digester system) would benefit potential tenants of the proposed project through minimization of the risk of transfer of agricultural waste, greenhouse gas (GHG) emissions of routine transport trips to a licensed landfill facility, and overall cost of such routine waste transport.

The Bio-Digester system would require input of low-level heat and could utilize the recovered waste low-level waste heat mentioned above.

Figure 2 illustrates the project site plan.

PHASING AND TIMING

The proposed project is anticipated to be constructed in four phases.

Phase 1 is anticipated to begin construction no sooner than quarter three of 2019 and be completed in the fourth quarter of 2021. Therefore, Phase 1 has been modeled as beginning construction no sooner than July 2019 and being completed by mid-December 2021. Phase 1 is to be operational in 2021.

Phase 2 is anticipated to begin construction no sooner than quarter four of 2021 and be completed within the fourth quarter of 2023. Therefore, Phase 2 has been modeled as beginning construction no sooner than October 2021 and being completed by mid-November 2023. Phase 2 is to be operational in 2023.

Phase 3 is anticipated to begin construction no sooner than quarter four of 2023 and be completed within the fourth quarter of 2025. Therefore, Phase 3 has been modeled as beginning construction no sooner than October 2023 and being completed by the beginning of October 2025. Phase 3 is to be operational in 2025.

Phase 4 is anticipated to begin construction no sooner than quarter four of 2025 and be completed within the fourth quarter of 2027. Therefore, Phase 4 has been modeled as beginning construction no sooner than October 2025 and being completed by the beginning of October 2027. Phase 4 is to be operational in 2027.

SENSITIVE RECEPTORS IN PROJECT VICINITY

Those who are sensitive to air pollution include children, the elderly, and persons with preexisting respiratory or cardiovascular illness. For purposes of CEQA, the SCAQMD considers a sensitive receptor to be a location where a sensitive individual could remain for 24 hours, such as residences, hospitals, or convalescent facilities (South Coast Air Quality Management District 2008). Commercial and industrial facilities are not included in the definition because employees do not typically remain on-site for 24 hours.

The nearest sensitive receptors to the project site are the single-family detached residential dwelling units located as close as approximately 0.05 mile (~270 feet) to the southeast, 0.53 mile to the southwest, and 0.60 mile to the northeast of the project site. Mobile home parks are located approximately 0.65 miles to the northeast and 0.75 miles to the east of the project site. In addition, Two Bunch Palms Elementary School is located approximately 0.62 miles northeast of the project site.

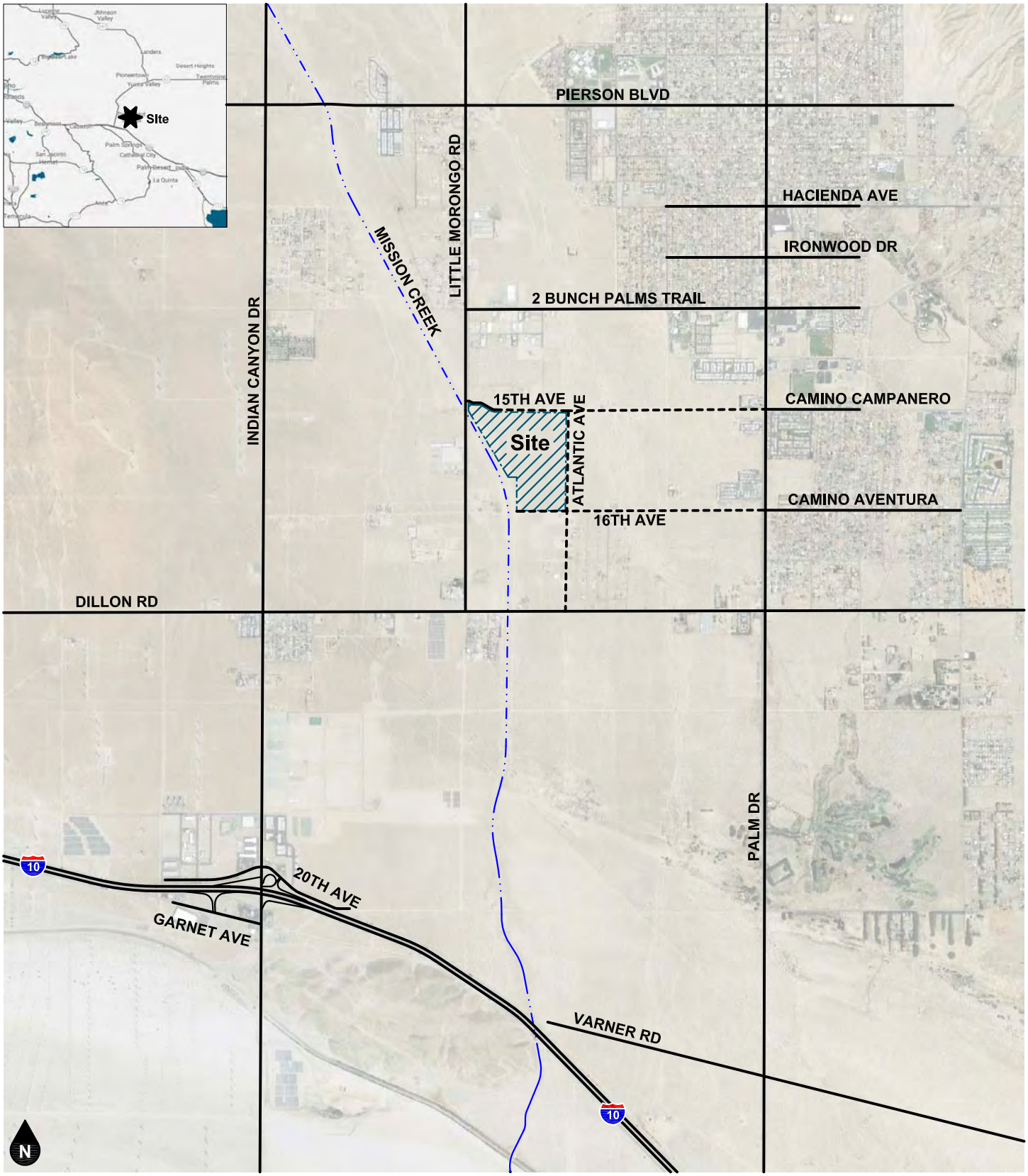
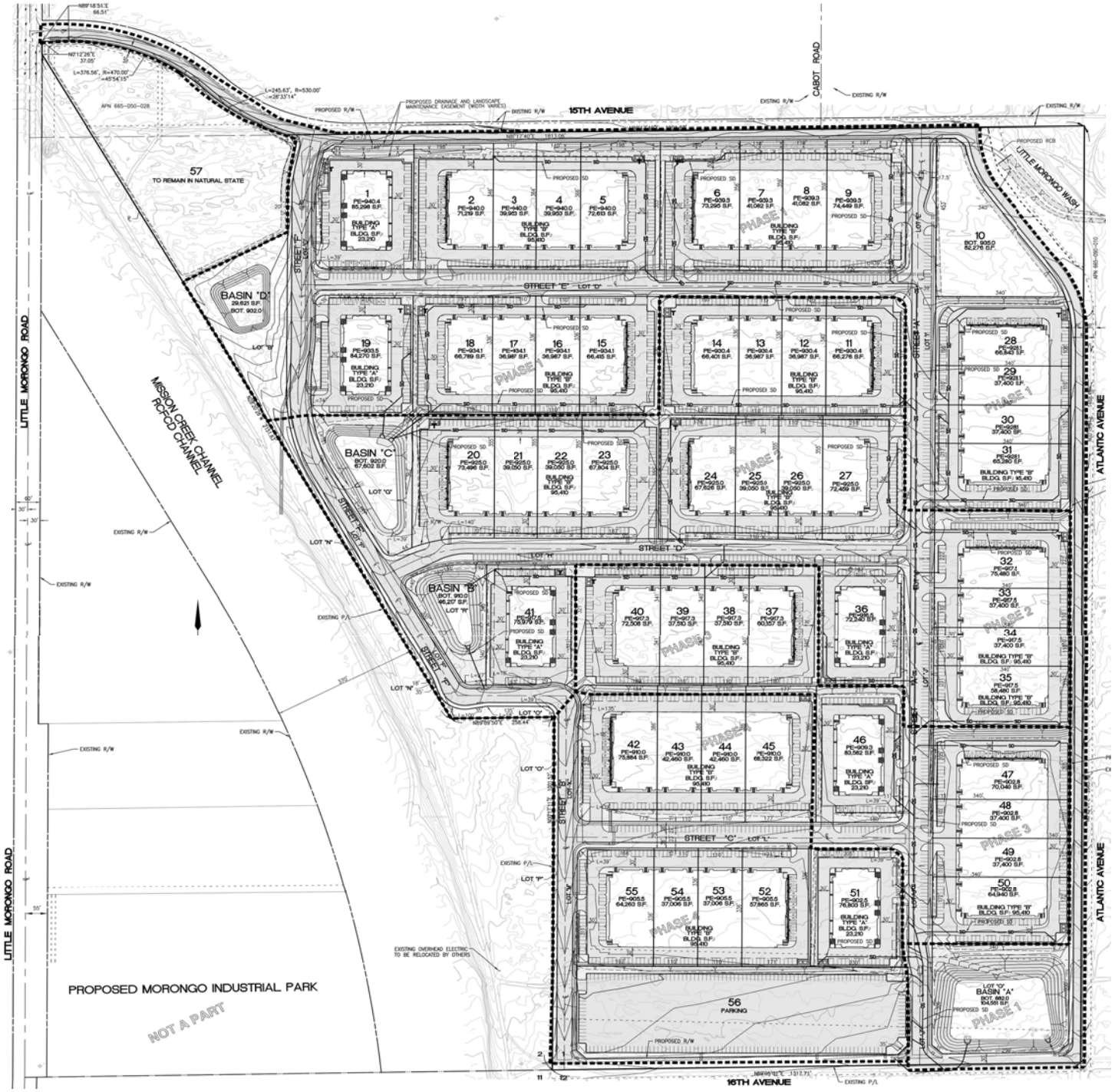


Figure 1
Project Location Map



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Figure 2
Site Plan

2. ATMOSPHERIC SETTING

LOCAL AIR QUALITY

The project is located within the City of Desert Hot Springs and is within the Salton Sea Air Basin (SSAB). The middle part of Riverside County (between San Gorgonio Pass and Joshua Tree National Monument), belongs in the Salton Sea Air Basin (SSAB), along with Imperial County. Air quality conditions in this portion of the County, although in the SSAB, are also administered by the SCAQMD. The SCAQMD is responsible for the development of the regional Air Quality Management Plan and efforts to regulate pollutant emissions from a variety of sources.

The SSAB portion of Riverside County is separated from the South Coast Air Basin region by the San Jacinto Mountains and from the Mojave Desert Air Basin to the east by the Little San Bernardino Mountains. During the summer, the SSAB is generally influenced by a Pacific Subtropical High Cell that sits off the coast, inhibiting cloud formation and encouraging daytime solar heating. The SSAB is rarely influenced by cold air masses moving south from Canada and Alaska, as these systems are weak and diffuse by the time they reach the desert. Most desert moisture arrives from infrequent warm, moist and unstable air masses from the south. The SSAB averages between three and seven inches of precipitation per year.

The Coachella Valley is a geographically and meteorologically unique area wholly contained within the Salton Sea Air Basin. The region is currently impacted by significant air pollution levels caused by the transport of pollutants from coastal air basins to the west, primarily ozone, and locally generated PM10. The mountains surrounding the region isolate the Valley from coastal influences and create a hot and dry low lying desert (see Table 1). As the desert heats up it draws cooler coastal air through the narrow San Gorgonio Pass, generating strong and sustained winds that cross the fluvial (water caused) and aeolian (wind) erosion zones in the Valley. These strong winds suspend and transport large quantities of sand and dust, reducing visibility, damaging property, and constituting a significant health threat.

The City of Desert Hot Springs, in relation to other areas in Southern California, has good air quality. In the past few decades, however, noticeable deterioration of air quality has occurred due to increased development and population growth, traffic, construction activity, and various site disturbances. It is apparent that although air pollution is emitted from various sources in the Coachella Valley, substantial degradation of air quality may be attributed primarily to sources outside of the Valley.

Table 1
Local Monthly Climate Data[1]

Descriptor	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Avg. Max. Temperature (^{o}f)	69.6	73.7	79.3	86.7	94.5	103	108.2	106.8	101.7	91.4	78.7	69.8
Avg. Min. Temperature (^{o}f)	42.3	45.6	48.8	54.1	60.4	67	75.2	74.3	68.1	59.4	49.2	42.3
Avg. Total Precipitation (in.)	1.13	1.00	0.58	0.18	0.05	0.05	0.20	0.27	0.29	0.29	0.42	1.01

Notes:

(1) Source: http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca6635.

3. POLLUTANTS

Pollutants are generally classified as either criteria pollutants or non-criteria pollutants. Federal ambient air quality standards have been established for criteria pollutants, whereas no ambient standards have been established for non-criteria pollutants. For some criteria pollutants, separate standards have been set for different periods. Most standards have been set to protect public health. For some pollutants, standards have been based on other values (such as protection of crops, protection of materials, or avoidance of nuisance conditions). A summary of federal and state ambient air quality standards is provided in the Regulatory Framework section.

CRITERIA POLLUTANTS

The criteria pollutants consist of: ozone, nitrogen dioxide, carbon monoxide, sulfur dioxide, lead, and particulate matter. These pollutants can harm your health and the environment, and cause property damage. The Environmental Protection Agency (EPA) calls these pollutants "criteria" air pollutants because it regulates them by developing human health-based and/or environmentally-based criteria for setting permissible levels. The following provides descriptions of each of the criteria pollutants.

Nitrogen Dioxides

Nitrogen Oxides (NOx) is the generic term for a group of highly reactive gases which contain nitrogen and oxygen. While most NOx are colorless and odorless, concentrations of nitrogen dioxide (NO_2) can often be seen as a reddish-brown layer over many urban areas. NOx form when fuel is burned at high temperatures, as in a combustion process. The primary manmade sources of NOx are motor vehicles, electric utilities, and other industrial, commercial, and residential sources that burn fuel. NOx reacts with other pollutants to form, ground-level ozone, nitrate particles, acid aerosols, as well as NO_2, which cause respiratory problems. NOx and the pollutants formed from NOx can be transported over long distances, following the patterns of prevailing winds. Therefore controlling NOx is often most effective if done from a regional perspective, rather than focusing on the nearest sources.

Ozone

Ozone (O_3) is not usually emitted directly into the air but at ground-level is created by a chemical reaction between NOx and volatile organic compounds (VOC) in the presence of sunlight. Motor vehicle exhaust, industrial emissions, gasoline vapors, chemical solvents as well as natural sources emit NOx and VOC that help form ozone. Ground-level ozone is the primary constituent of smog. Sunlight and hot weather cause ground-level ozone to form with the greatest concentrations usually occurring downwind from urban areas. Ozone is subsequently considered a regional pollutant. Ground-level ozone is a respiratory irritant and an oxidant that increases susceptibility to respiratory infections and can cause substantial damage to vegetation and other materials. Because NOx and VOC are ozone precursors, the health effects associated with ozone are also indirect health effects associated with significant levels of NOx and VOC emissions.

Carbon Monoxide

Carbon monoxide (CO) is a colorless, odorless gas that is formed when carbon in fuel is not burned completely. It is a component of motor vehicle exhaust, which contributes about 56 percent of all CO emissions nationwide. In cities, 85 to 95 percent of all CO emissions may come from motor vehicle exhaust. Other sources of CO emissions include industrial processes (such as metals processing and chemical manufacturing), residential wood burning, and natural sources such as forest fires. Woodstoves, gas stoves, cigarette smoke, and unvented gas and kerosene space heaters are indoor sources of CO. The highest levels of CO in the outside air typically occur during the colder months of the year when inversion conditions are more frequent. The air pollution becomes trapped near the ground beneath a layer of warm air. CO is described as having only a local influence because it dissipates quickly. Since CO concentrations are strongly associated with motor

vehicle emissions, high CO concentrations generally occur in the immediate vicinity of roadways with high traffic volumes and traffic congestion, active parking lots, and in automobile tunnels. Areas adjacent to heavily traveled and congested intersections are particularly susceptible to high CO concentrations.

CO is a public health concern because it combines readily with hemoglobin and thus reduces the amount of oxygen transported in the bloodstream. The health threat from lower levels of CO is most serious for those who suffer from heart disease such as angina, clogged arteries, or congestive heart failure. For a person with heart disease, a single exposure to CO at low levels may cause chest pain and reduce that person's ability to exercise; repeated exposures may contribute to other cardiovascular effects. High levels of CO can affect even healthy people. People who breathe high levels of CO can develop vision problems, reduced ability to work or learn, reduced manual dexterity, and difficulty performing complex tasks. At extremely high levels, CO is poisonous and can cause death.

Sulfur Dioxide

Sulfur Oxide (SOx) gases (including sulfur dioxide [SO2]) are formed when fuel containing sulfur, such as coal and oil is burned, and from the refining of gasoline. SOx dissolves easily in water vapor to form acid and interacts with other gases and particles in the air to form sulfates and other products that can be harmful to people and the environment.

Lead

Lead (Pb) is a metal found naturally in the environment as well as manufactured products. The major sources of lead emissions have historically been motor vehicles and industrial sources. Due to the phase out of leaded gasoline, metal processing is now the primary source of lead emissions to the air. High levels of lead in the air are typically only found near lead smelters, waste incinerators, utilities, and lead-acid battery manufacturers. Exposure of fetuses, infants and children to low levels of lead can adversely affect the development and function of the central nervous system, leading to learning disorders, distractibility, inability to follow simple commands, and lower intelligence quotient. In adults, increased lead levels are associated with increased blood pressure.

Particulate Matter

Particulate matter (PM) is the term for a mixture of solid particles and liquid droplets found in the air. Particulate matter is made up of a number of components including acids (such as nitrates and sulfates), organic chemicals, metals, and soil or dust particles. The size of particles is directly linked to their potential for causing health problems. Particles that are less than 10 micrometers in diameter (PM10) are the particles that generally pass through the throat and nose and enter the lungs. Once inhaled, these particles can affect the heart and lungs and cause serious health effects. Particles that are less than 2.5 micrometers in diameter (PM2.5) have been designated as a subset of PM10 due to their increased negative health impacts and its ability to remain suspended in the air longer and travel further.

Reactive Organic Gases (ROG)

Although not a criteria pollutant, reactive organic gases (ROGs), or VOCs, are defined as any compound of carbon—excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate—that participates in atmospheric photochemical reactions. Although there are slight differences in the definition of ROGs and VOCs, the two terms are often used interchangeably. Indoor sources of VOCs include paints, solvents, aerosol sprays, cleansers, tobacco smoke, etc. Outdoor sources of VOCs are from combustion and fuel evaporation. A reduction in VOC emissions reduces certain chemical reactions that contribute to the formulation of ozone. VOCs are transformed into organic aerosols in the atmosphere, which contribute to higher PM10 and lower visibility.

OTHER POLLUTANTS OF CONCERN

Toxic Air Contaminants

In addition to the above-listed criteria pollutants, toxic air contaminants (TACs) are another group of pollutants of concern. Sources of toxic air contaminants include industrial processes such as petroleum refining and chrome plating operations, commercial operations such as gasoline stations and dry cleaners, and motor vehicle exhaust. Cars and trucks release at least forty different toxic air contaminants. The most important of these toxic air contaminants, in terms of health risk, are diesel particulates, benzene, formaldehyde, 1,3-butadiene, and acetaldehyde. Public exposure to toxic air contaminants can result from emissions from normal operations as well as from accidental releases. Health effects of toxic air contaminants include cancer, birth defects, neurological damage, and death.

Toxic air contaminants are less pervasive in the urban atmosphere than criteria air pollutants, however they are linked to short-term (acute) or long-term (chronic or carcinogenic) adverse human health effects. There are hundreds of different types of toxic air contaminants with varying degrees of toxicity. Sources of toxic air contaminants include industrial processes, commercial operations (e.g., gasoline stations and dry cleaners), and motor vehicle exhaust.

According to the 2013 California Almanac of Emissions and Air Quality, the majority of the estimated health risk from toxic air contaminants can be attributed to relatively few compounds, the most important of which is diesel particulate matter (DPM). Diesel particulate matter is a subset of PM2.5 because the size of diesel particles are typically 2.5 microns and smaller. The identification of diesel particulate matter as a toxic air contaminant in 1998 led the California Air Resources Board (CARB) to adopt the Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-fueled Engines and Vehicles in September 2000. The plan's goals are a 75-percent reduction in diesel particulate matter by 2010 and an 85-percent reduction by 2020 from the 2000 baseline. Diesel engines emit a complex mixture of air pollutants, composed of gaseous and solid material. The visible emissions in diesel exhaust are known as particulate matter or PM, which includes carbon particles or "soot". Diesel exhaust also contains a variety of harmful gases and over 40 other cancer-causing substances. California's identification of diesel particulate matter as a toxic air contaminant was based on its potential to cause cancer, premature deaths, and other health problems. Exposure to diesel particulate matter is a health hazard, particularly to children whose lungs are still developing and the elderly who may have other serious health problems. Overall, diesel engine emissions are responsible for the majority of California's potential airborne cancer risk from combustion sources.

Asbestos

Asbestos is listed as a TAC by the ARB and as a Hazardous Air Pollutant by the EPA. Asbestos occurs naturally in mineral formations and crushing or breaking these rocks, through construction or other means, can release asbestiform fibers into the air. Asbestos emissions can result from the sale or use of asbestos-containing materials, road surfacing with such materials, grading activities, and surface mining. The risk of disease is dependent upon the intensity and duration of exposure. When inhaled, asbestos fibers may remain in the lungs and with time may be linked to such diseases as asbestosis, lung cancer, and mesothelioma. Naturally occurring asbestos is not present in Riverside County. The nearest likely locations of naturally occurring asbestos, as identified in the General Location Guide for Ultramafic Rocks in California prepared by the California Division of Mines and Geology, is located in Santa Barbara County. Due to the distance to the nearest natural occurrences of asbestos, the project site is not likely to contain asbestos.

GREENHOUSE GASES

Constituent gases of the Earth's atmosphere, called atmospheric greenhouse gases (GHG), play a critical role in the Earth's radiation amount by trapping infrared radiation emitted from the Earth's surface, which otherwise would have escaped to space. Prominent greenhouse gases contributing to this process include carbon dioxide (CO_2), methane (CH_4), ozone, water vapor, nitrous oxide (N_2O), and chlorofluorocarbons

(CFCs). This phenomenon, known as the Greenhouse Effect, is responsible for maintaining a habitable climate. Anthropogenic (caused or produced by humans) emissions of these greenhouse gases in excess of natural ambient concentrations are responsible for the enhancement of the Greenhouse Effect and have led to a trend of unnatural warming of the Earth's natural climate, known as global warming or climate change. Emissions of gases that induce global warming are attributable to human activities associated with industrial/manufacturing, agriculture, utilities, transportation, and residential land uses. Transportation is responsible for 41 percent of the State's greenhouse gas emissions, followed by electricity generation. Emissions of CO_2 and nitrous oxide (NOx) are byproducts of fossil fuel combustion. Methane, a potent greenhouse gas, results from off-gassing associated with agricultural practices and landfills. Sinks of CO_2, where CO_2 is stored outside of the atmosphere, include uptake by vegetation and dissolution into the ocean. The following provides a description of each of the greenhouse gases and their global warming potential.

Water Vapor

Water vapor is the most abundant, important, and variable GHG in the atmosphere. Water vapor is not considered a pollutant; in the atmosphere it maintains a climate necessary for life. Changes in its concentration are primarily considered a result of climate feedbacks related to the warming of the atmosphere rather than a direct result of industrialization. The feedback loop in which water is involved is critically important to projecting future climate change. As the temperature of the atmosphere rises, more water is evaporated from ground storage (rivers, oceans, reservoirs, soil). Because the air is warmer, the relative humidity can be higher (in essence, the air is able to "hold" more water when it is warmer), leading to more water vapor in the atmosphere. As a GHG, the higher concentration of water vapor is then able to absorb more thermal indirect energy radiated from the Earth, thus further warming the atmosphere. The warmer atmosphere can then hold more water vapor and so on and so on. This is referred to as a "positive feedback loop". The extent to which this positive feedback loop will continue is unknown as there is also dynamics that put the positive feedback loop in check. As an example, when water vapor increases in the atmosphere, more of it will eventually also condense into clouds, which are more able to reflect incoming solar radiation (thus allowing less energy to reach the Earth's surface and heat it up).

Carbon Dioxide (CO_2)

The natural production and absorption of CO_2 is achieved through the terrestrial biosphere and the ocean. However, humankind has altered the natural carbon cycle by burning coal, oil, natural gas, and wood. Since the industrial revolution began in the mid-1700s. Each of these activities has increased in scale and distribution. CO_2 was the first GHG demonstrated to be increasing in atmospheric concentration with the first conclusive measurements being made in the last half of the 20th century. Prior to the industrial revolution, concentrations were fairly stable at 280 parts per million (ppm). The International Panel on Climate Change (IPCC Fifth Assessment Report, 2014) Emissions of CO_2 from fossil fuel combustion and industrial processes contributed about 78% of the total GHG emissions increase from 1970 to 2010, with a similar percentage contribution for the increase during the period 2000 to 2010. Globally, economic and population growth continued to be the most important drivers of increases in CO_2 emissions from fossil fuel combustion. The contribution of population growth between 2000 and 2010 remained roughly identical to the previous three decades, while the contribution of economic growth has risen sharply.

Methane (CH_4)

CH_4 is an extremely effective absorber of radiation, although its atmospheric concentration is less than that of CO_2. Its lifetime in the atmosphere is brief (10 to 12 years), compared to some other GHGs (such as CO_2, N_2O, and Chlorofluorocarbons (CFCs). CH_4 has both natural and anthropogenic sources. It is released as part of the biological processes in low oxygen environments, such as in swamplands or in rice production (at the roots of the plants). Over the last 50 years, human activities such as growing rice, raising cattle, using natural gas, and mining coal have added to the atmospheric concentration of methane. Other anthropocentric sources include fossil-fuel combustion and biomass burning.

Nitrous Oxide (N_2O)

Concentrations of N_2O also began to rise at the beginning of the industrial revolution. In 1998, the global concentration of this GHG was documented at 314 parts per billion (ppb). N_2O is produced by microbial processes in soil and water, including those reactions which occur in fertilizer containing nitrogen. In addition to agricultural sources, some industrial processes (fossil fuel-fired power plants, nylon production, nitric acid production, and vehicle emissions) also contribute to its atmospheric load. It is also commonly used as an aerosol spray propellant, (i.e., in whipped cream bottles, in potato chip bags to keep chips fresh, and in rocket engines and in race cars).

Chlorofluorocarbons (CFC)

CFCs are gases formed synthetically by replacing all hydrogen atoms in methane or ethane (C_2H_6) with chlorine and/or fluorine atoms. CFCs are nontoxic, nonflammable, insoluble, and chemically unreactive in the troposphere (the level of air at the Earth's surface). CFCs have no natural source, but were first synthesized in 1928. It was used for refrigerants, aerosol propellants, and cleaning solvents. Due to the discovery that they are able to destroy stratospheric ozone, a global effort to halt their production was undertaken and in 1989 the European Community agreed to ban CFCs by 2000 and subsequent treaties banned CFCs worldwide by 2010. This effort was extremely successful, and the levels of the major CFCs are now remaining level or declining. However, their long atmospheric lifetimes mean that some of the CFCs will remain in the atmosphere for over 100 years.

Hydrofluorocarbons (HFC)

HFCs are synthetic man-made chemicals that are used as a substitute for CFCs. Out of all the GHGs, they are one of three groups with the highest global warming potential. The HFCs with the largest measured atmospheric abundances are (in order), HFC-23 (CHF_3), HFC-134a (CF_3CH_2F), and HFC-152a (CH_3CHF_2). Prior to 1990, the only significant emissions were HFC-23. HFC-134a use is increasing due to its use as a refrigerant. Concentrations of HFC-23 and HFC-134a in the atmosphere are now about 10 parts per trillion (ppt) each. Concentrations of HFC-152a are about 1 ppt. HFCs are manmade for applications such as automobile air conditioners and refrigerants.

Perfluorocarbons (PFC)

PFCs have stable molecular structures and do not break down through the chemical processes in the lower atmosphere. High-energy ultraviolet rays about 60 kilometers above Earth's surface are able to destroy the compounds. Because of this, PFCs have very long lifetimes, between 10,000 and 50,000 years. Two common PFCs are tetrafluoromethane (CF_4) and hexafluoroethane (C_2F_6). Concentrations of CF_4 in the atmosphere are over 70 ppt. The two main sources of PFCs are primary aluminum production and semiconductor manufacturing.

Sulfur Hexafluoride (SF_6)

SF_6 is an inorganic, odorless, colorless, nontoxic, nonflammable gas. SF_6 has the highest global warming potential of any gas evaluated; 23,900 times that of CO_2. Concentrations in the 1990s were about 4 ppt. Sulfur hexafluoride is used for insulation in electric power transmission and distribution equipment, in the magnesium industry, in semiconductor manufacturing, and as a tracer gas for leak detection.

Aerosols

Aerosols are particles emitted into the air through burning biomass (plant material) and fossil fuels. Aerosols can warm the atmosphere by absorbing and emitting heat and can cool the atmosphere by reflecting light. Cloud formation can also be affected by aerosols. Sulfate aerosols are emitted when fuel containing sulfur is burned. Black carbon (or soot) is emitted during biomass burning due to the incomplete combustion of fossil

fuels. Particulate matter regulation has been lowering aerosol concentrations in the United States; however, global concentrations are likely increasing.

Global Warming Potential

The Global Warming Potential (GWP) was developed to allow comparisons of the global warming impacts of different gases. Specifically, it is a measure of how much energy the emissions of 1 ton of a gas will absorb over a given period of time, relative to the emissions of 1 ton of carbon dioxide (CO_2). The larger the GWP, the more that a given gas warms the Earth compared to CO_2 over that time period. The time period usually used for GWPs is 100 years. GWPs provide a common unit of measure, which allows analysts to add up emissions estimates of different gases (e.g., to compile a national GHG inventory), and allows policymakers to compare emissions reduction opportunities across sectors and gases. A summary of the atmospheric lifetime and the global warming potential of selected gases are summarized in Table 2. As shown in Table 2, the global warming potential of GHGs ranges from 1 to 22,800.

Table 2
Global Warming Potentials and Atmospheric Lifetimes[1]

Gas	Atmospheric Lifetime	Global Warming Potential[2] (100 Year Horizon)
Carbon Dioxide (CO_2)	--[3]	1
Methane (CH_4)	12	28-36
Nitrous Oxide (NO)	114	298
Hydrofluorocarbons (HFCs)	1-270	12-14,800
Perfluorocarbons (PFCs)	2,600-50,000	7,390-12,200
Nitrogen trifluoride (NF_3)	740	17,200
Sulfur Hexafluoride (SF_6)	3,200	22,800

Notes:

(1) Source: http://www3.epa.gov/climatechange/ghgemissions/gases.html

(2) Compared to the same quantity of CO_2 emissions.

(3) Carbon dioxide's lifetime is poorly defined because the gas is not destroyed over time, but instead moves among different parts of the ocean–atmosphere–land system. Some of the excess carbon dioxide will be absorbed quickly (for example, by the ocean surface), but some will remain in the atmosphere for thousands of years, due in part to the very slow process by which carbon is transferred to ocean sediments.

4. AIR QUALITY MANAGEMENT

REGULATORY SETTING

The proposed project is addressed through the efforts of various international, federal, state, regional, and local government agencies. These agencies work jointly, as well as individually, to improve air quality through legislation, regulations, planning, policy-making, education, and a variety of programs. The agencies responsible for improving the air quality are discussed below.

International

Montreal Protocol

In 1988, the United Nations established the Intergovernmental Panel on Climate Change (IPCC) to evaluate the impacts of global climate change and to develop strategies that nations could implement to curtail global climate change. In 1992, the United States joined other countries around the world in signing the United Nations' Framework Convention on Climate Change (UNFCCC) agreement with the goal of controlling GHG emissions. As a result, the Climate Change Action Plan was developed to address the reduction of GHGs in the United States. The plan consists of more than 50 voluntary programs.

Additionally, the Montreal Protocol was originally signed in 1987 and substantially amended in 1990 and 1992. The Montreal Protocol stipulates that the production and consumption of compounds that deplete ozone in the stratosphere—CFCs, halons, carbon tetrachloride, and methyl chloroform—were to be phased out, with the first three by the year 2000 and methyl chloroform by 2005.

The Paris Agreement

The Paris Agreement entered into force on 4 November 2016, thirty days after the date on which at least 55 Parties to the Convention accounting in total for at least an estimated 55 % of the total global greenhouse gas emissions have deposited their instruments of ratification, acceptance, approval or accession with the Depositary.

The Paris Agreement builds upon the Convention and – for the first time – brings all nations into a common cause to undertake take ambitious efforts to combat climate change and adapt to its effects, with enhanced support to assist developing countries to do so. As such, it charts a new course in the global climate effort.

The Paris Agreement's central aim is to strengthen the global response to the threat of climate change by keeping a global temperature rise this century well below 2 degrees Celsius above pre-industrial levels and to pursue efforts to limit the temperature increase even further to 1.5 degrees Celsius. Additionally, the agreement aims to strengthen the ability of countries to deal with the impacts of climate change. To reach these ambitious goals, appropriate financial flows, a new technology framework and an enhanced capacity building framework will be put in place, thus supporting action by developing countries and the most vulnerable countries, in line with their own national objectives. The Agreement also provides for enhanced transparency of action and support through a more robust transparency framework. The Trump administration has recently indicated the United States federal government will no longer participate in the Paris agreement. However, the U.S. cannot technically withdraw from the Agreement until November 4, 2020.

Federal – United States Environmental Protection Agency

The United States Environmental Protection Agency (USEPA) is responsible for setting and enforcing the National Ambient Air Quality Standards (NAAQS) for atmospheric pollutants. It regulates emission sources that are under the exclusive authority of the federal government, such as aircraft, ships, and certain

locomotives. The National Ambient Air Quality Standards (NAAQS) pollutants were identified using medical evidence and are shown below in Table 3.

The EPA and the California Air Resource Board (CARB) designate air basins where ambient air quality standards are exceeded as "nonattainment" areas. If standards are met, the area is designated as an "attainment" area. If there is inadequate or inconclusive data to make a definitive attainment designation, they are considered "unclassified." National nonattainment areas are further designated as marginal, moderate, serious, severe, or extreme as a function of deviation from standards. Each standard has a different definition, or 'form' of what constitutes attainment, based on specific air quality statistics. For example, the Federal 8-hour CO standard is not to be exceeded more than once per year; therefore, an area is in attainment of the CO standard if no more than one 8-hour ambient air monitoring values exceeds the threshold per year. In contrast, the Federal annual PM2.5 standard is met if the three-year average of the annual average PM2.5 concentration is less than or equal to the standard. Attainment status is shown in Table 4.

As part of its enforcement responsibilities, the EPA requires each state with federal nonattainment areas to prepare and submit a State Implementation Plan (SIP) that demonstrates the means to attain the national standards. The State Implementation Plan (SIP) must integrate federal, state, and local components and regulations to identify specific measures to reduce pollution, using a combination of performance standards and market-based programs within the timeframe identified in the State Implementation Plan (SIP).

As indicated below in Table 4, the Basin has been designated by the EPA as a non-attainment area for ozone (O_3) and suspended particulates (PM10 and PM2.5). Currently, the Basin is in attainment with the ambient air quality standards for carbon monoxide (CO), lead, sulfur dioxide (SO_2), suspended particulate matter (PM-2.5), and nitrogen dioxide (NO_2).

In Massachusetts v. Environmental Protection Agency (Docket No. 05–1120), argued November 29, 2006 and decided April 2, 2007, the U.S. Supreme Court held that not only did the EPA have authority to regulate greenhouse gases, but the EPA's reasons for not regulating this area did not fit the statutory requirements. As such, the U.S. Supreme Court ruled that the EPA should be required to regulate CO_2 and other greenhouse gases as pollutants under the federal Clean Air Act (CAA).

In response to the FY2008 Consolidations Appropriations Act (H.R. 2764; Public Law 110-161), EPA proposed a rule on March 10, 2009 that requires mandatory reporting of GHG emissions from large sources in the United States. On September 22, 2009, the Final Mandatory Reporting of GHG Rule was signed and published in the Federal Register on October 30, 2009. The rule became effective on December 29, 2009. This rule requires suppliers of fossil fuels or industrial GHGs, manufacturers of vehicles and engines, and facilities that emit 25,000 metric tons or more per year of GHG emissions to submit annual reports to EPA.

On December 7, 2009, the EPA Administrator signed two distinct findings under section 202(a) of the Clean Air Act. One is an endangerment finding that finds concentrations of the six GHGs in the atmosphere threaten the public health and welfare of current and future generations. The other is a cause or contribute finding, that finds emissions from new motor vehicles and new motor vehicle engines contribute to the GHG pollution which threatens public health and welfare. These actions will not themselves impose any requirements on industry or other entities. However, it is a prerequisite to finalizing the EPA's proposed GHG emission standards for light-duty vehicles, which were jointly proposed by the EPA and Department of Transportation on September 15, 2009.

Clean Air Act

In Massachusetts v. Environmental Protection Agency (Docket No. 05–1120), the U.S. Supreme Court held in April of 2007 that the USEPA has statutory authority under Section 202 of the federal Clean Air Act (CAA) to regulate GHGs. The court did not hold that the USEPA was required to regulate GHG emissions; however, it indicated that the agency must decide whether GHGs cause or contribute to air pollution that is reasonably

anticipated to endanger public health or welfare. On December 7, 2009, the USEPA Administrator signed two distinct findings regarding GHGs under Section 202(a) of the CAA. The USEPA adopted a Final Endangerment Finding for the six defined GHGs (CO2, CH4, N2O, HFCs, PFCs, and SF6) on December 7, 2009. The Endangerment Finding is required before USEPA can regulate GHG emissions under Section 202(a)(1) of the CAA consistently with the United States Supreme Court decision. The USEPA also adopted a Cause or Contribute Finding in which the USEPA Administrator found that GHG emissions from new motor vehicle and motor vehicle engines are contributing to air pollution, which is endangering public health and welfare. These findings do not, by themselves, impose any requirements on industry or other entities. However, these actions were a prerequisite for implementing GHG emissions standards for vehicles.

Energy Independence Security Act

The Energy Independence and Security Act of 2007 (EISA) facilitates the reduction of national GHG emissions by requiring the following:

- Increasing the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard (RFS) that requires fuel producers to use at least 36 billion gallons of biofuel in 2022;
- Prescribing or revising standards affecting regional efficiency for heating and cooling products, procedures for new or amended standards, energy conservation, energy efficiency labeling for consumer electronic products, residential boiler efficiency, electric motor efficiency, and home appliances;
- Requiring approximately 25 percent greater efficiency for light bulbs by phasing out incandescent light bulbs between 2012 and 2014; requiring approximately 200 percent greater efficiency for light bulbs, or similar energy savings, by 2020; and
- While superseded by the USEPA and NHTSA actions described above, (i) establishing miles per gallon targets for cars and light trucks and (ii) directing the NHTSA to establish a fuel economy program for medium- and heavy-duty trucks and create a separate fuel economy standard for trucks.

Additional provisions of EISA address energy savings in government and public institutions, promote research for alternative energy, additional research in carbon capture, international energy programs, and the creation of green jobs.[2]

Executive Order 13432

In response to the Massachusetts v. Environmental Protection Agency ruling, the President signed Executive Order 13432 on May 14, 2007, directing the USEPA, along with the Departments of Transportation, Energy, and Agriculture, to initiate a regulatory process that responds to the Supreme Court's decision. Executive Order 13432 was codified into law by the 2009 Omnibus Appropriations Law signed on February 17, 2009. The order sets goals in the areas of energy efficiency, acquisition, renewable energy, toxics reductions, recycling, sustainable buildings, electronics stewardship, fleets, and water conservation. Light-Duty Vehicle Greenhouse Gas and Corporate Average Fuel Economy Standards.

On May 19, 2009, President Obama announced a national policy for fuel efficiency and emissions standards in the United States auto industry. The adopted federal standard applies to passenger cars and light-duty trucks for model years 2012 through 2016. The rule surpasses the prior Corporate Average Fuel Economy standards (CAFE)[3] and requires an average fuel economy standard of 35.5 miles per gallon (mpg) and 250 grams of CO2 per mile by model year 2016, based on USEPA calculation methods. These standards were formally adopted on April 1, 2010. In August 2012, standards were adopted for model year 2017 through 2025 for passenger cars and light-duty trucks. By 2025, vehicles are required to achieve 54.5 mpg (if GHG

[2] A green job, as defined by the United States Department of Labor, is a job in business that produces goods or provides services that benefit the environment or conserve natural resources.

[3] The Corporate Average Fuel Economy standards are regulations in the United States, first enacted by Congress in 1975, to improve the average fuel economy of cars and light trucks. The U.S Department of Transportation has delegated the National Highway Traffic Safety Administration as the regulatory agency for the Corporate Average Fuel Economy standards.

reductions are achieved exclusively through fuel economy improvements) and 163 grams of CO2 per mile. According to the USEPA, a model year 2025 vehicle would emit one-half of the GHG emissions from a model year 2010 vehicle.[4] In 2017, the USEPA recommended no change to the GHG standards for light-duty vehicles for model years 2022-2025.

In August 2018, the USEPA and NHTSA proposed the Safer Affordable Fuel-Efficient Vehicles Rule that would, if adopted, maintain the CAFE and CO2 standards applicable in model year 2020 for model years 2021 through 2026. The estimated CAFE and CO2 standards for model year 2020 are 43.7 mpg and 204 grams of CO2 per mile for passenger cars and 31.3 mpg and 284 grams of CO2 per mile for light trucks, projecting an overall industry average of 37 mpg, as compared to 46.7 mpg under the standards issued in 2012. The proposal, if adopted, would also exclude CO2- equivalent emission improvements associated with air conditioning refrigerants and leakage (and, optionally, offsets for nitrous oxide and methane emissions) after model year 2020.[5]

State – California Air Resources Board

The California Air Resources Board (CARB), which is a part of the California Environmental Protection Agency, is responsible for the coordination and administration of both federal and state air pollution control programs within California. In this capacity, the CARB conducts research, sets the California Ambient Air Quality Standards (CAAQS), compiles emission inventories, develops suggested control measures, provides oversight of local programs, and prepares the State Implementation Plan (SIP). The California Ambient Air Quality Standards (CAAQS) for criteria pollutants are shown in Table 3. In addition, the CARB establishes emission standards for motor vehicles sold in California, consumer products (e.g., hairspray, aerosol paints, and barbeque lighter fluid), and various types of commercial equipment. It also sets fuel specifications to further reduce vehicular emissions.

The Salton Sea Air Basin has been designated by the CARB as a nonattainment area for ozone and PM-10. Currently, the Salton Sea Air Basin is in attainment with the ambient air quality standards for CO, lead, SO2, NO2, and sulfates and is unclassified for visibility reducing particles (PM-2.5) and Hydrogen Sulfide.

On June 20, 2002, the CARB revised the PM10 annual average standard to 20 µg/m3 and established an annual average standard for PM2.5 of 12 µg/m3. These standards were approved by the Office of Administrative Law in June 2003 and are now effective. On September 27, 2007 CARB approved the South Coast Air Basin and the Coachella Valley 2007 Air Quality Management Plan for Attaining the Federal 8-hour Ozone and PM2.5 Standards. The plan projects attainment for the 8-hour Ozone standard by 2024 and the PM2.5 standard by 2015.

On December 12, 2008 the CARB adopted Resolution 08-43, which limits NOx, PM10 and PM2.5 emissions from on-road diesel truck fleets that operate in California. On October 12, 2009 Executive Order R-09-010 was adopted that codified Resolution 08-43 into Section 2025, Title 13 of the California Code of Regulations. This regulation requires that by the year 2023 all commercial diesel trucks that operate in California shall meet model year 2010 (Tier 4) or latter emission standards. In the interim period, this regulation provides annual interim targets for fleet owners to meet. This regulation also provides a few exemptions including a onetime per year 3-day pass for trucks registered outside of California.

The CARB is also responsible for regulations pertaining to toxic air contaminants. The Air Toxics "Hot Spots" Information and Assessment Act (AB 2588, 1987, Connelly) was enacted in 1987 as a means to establish a

[4] United States Environmental Protection Agency, EPA and NHTSA Set Standards to Reduce Greenhouse Gases and Improve Fuel Economy for Model Years 2017-2025 Cars and Light Trucks, August 2012, https://nepis.epa.gov/Exe/ZyPDF.cgi/P100EZ7C.PDF?Dockey=P100EZ7C.PDF.

[5] National Highway Traffic Safety Administration (NHTSA) and U.S. Environmental Protection Agency (USEPA), 2018. Federal Register / Vol. 83, No. 165 / Friday, August 24, 2018 / Proposed Rules, The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule for Model Years 2021–2026 Passenger Cars and Light Trucks 2018. Available at: https://www.gpo.gov/fdsys/pkg/FR-2018-08-24/pdf/2018-16820.pdf.

formal air toxics emission inventory risk quantification program. AB 2588, as amended, establishes a process that requires stationary sources to report the type and quantities of certain substances their facilities routinely release into the South Coast Air Basin. The data is ranked by high, intermediate, and low categories, which are determined by: the potency, toxicity, quantity, volume, and proximity of the facility to nearby receptors.

The State currently has no regulations that establish ambient air quality standards for GHGs. However, the State has passed laws directing CARB to develop actions to reduce GHG emissions, which are listed below.

Assembly Bill 1493

California Assembly Bill 1493 enacted on July 22, 2002, required CARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. In 2005, the CARB submitted a "waiver" request to the EPA from a portion of the federal Clean Air Act in order to allow the State to set more stringent tailpipe emission standards for CO_2 and other GHG emissions from passenger vehicles and light duty trucks. On December 19, 2007 the EPA announced that it denied the "waiver" request. On January 21, 2009, CARB submitted a letter to the EPA administrator regarding the State's request to reconsider the waiver denial. The EPA approved the waiver on June 30, 2009.

Executive Order S-3-05

The California Governor issued Executive Order S-3-05, GHG Emission, in June 2005, which established the following reduction targets:

- 2010: Reduce greenhouse gas emissions to 2000 levels
- 2020: Reduce greenhouse gas emissions to 1990 levels
- 2050: Reduce greenhouse gas emissions to 80 percent below 1990 levels.

The executive order directed the secretary of the California Environmental Protection Agency (CalEPA) to coordinate a multi-agency effort to reduce GHG emissions to the target levels. To comply with the Executive Order, the secretary of CalEPA created the California Climate Action Team (CAT), made up of members from various state agencies and commissions. The team released its first report in March 2006. The report proposed to achieve the targets by building on the voluntary actions of businesses, local governments, and communities and through State incentive and regulatory programs.

Assembly Bill 32 (California Health and Safety Code, Division 25.5 – California Global Warming Solutions Act of 2006)

In 2006, the California State Legislature adopted Assembly Bill (AB) 32 (codified in the California Health and Safety Code [HSC], Division 25.5 – California Global Warming Solutions Act of 2006), which focuses on reducing GHG emissions in California to 1990 levels by 2020. HSC Division 25.5 defines GHGs as CO2, CH4, N2O, HFCs, PFCs, and SF6 and represents the first enforceable statewide program to limit emissions of these GHGs from all major industries with penalties for noncompliance. The law further requires that reduction measures be technologically feasible and cost effective. Under HSC Division 25.5, CARB has the primary responsibility for reducing GHG emissions. CARB is required to adopt rules and regulations directing state actions that would achieve GHG emissions reductions equivalent to 1990 statewide levels by 2020.

Senate Bill 32 and Assembly Bill 197

In 2016, the California State Legislature adopted Senate Bill (SB) 32 and its companion bill AB 197, and both were signed by Governor Brown. SB 32 and AB 197 amends HSC Division 25.5 and establishes a new climate pollution reduction target of 40 percent below 1990 levels by 2030 and includes provisions to ensure the benefits of state climate policies reach into disadvantaged communities.

Climate Change Scoping Plan (2008)

A specific requirement of AB 32 was to prepare a Climate Change Scoping Plan for achieving the maximum technologically feasible and cost-effective GHG emission reduction by 2020 (Health and Safety Code section 38561 (h)). CARB developed an AB 32 Scoping Plan that contains strategies to achieve the 2020 emissions cap. The initial Scoping Plan was approved in 2008, and contains a mix of recommended strategies that combined direct regulations, market-based approaches, voluntary measures, policies, and other emission reduction programs calculated to meet the 2020 statewide GHG emission limit and initiate the transformations needed to achieve the State's long-range climate objectives.

As required by HSC Division 25.5, CARB approved the 1990 GHG emissions inventory, thereby establishing the emissions limit for 2020. The 2020 emissions limit was originally set at 427 MMTCO2e using the GWP values from the IPCC SAR. CARB also projected the state's 2020 GHG emissions under no-action-taken (NAT) conditions – that is, emissions that would occur without any plans, policies, or regulations to reduce GHG emissions. CARB originally used an average of the state's GHG emissions from 2002 through 2004 and projected the 2020 levels at approximately 596 MMTCO2e (using GWP values from the IPCC SAR). Therefore, under the original projections, the state must reduce its 2020 NAT emissions by 28.4 percent in order to meet the 1990 target of 427 MMTCO2e.

First Update to the Climate Change Scoping Plan (2014)

The First Update to the Scoping Plan was approved by CARB in May 2014 and builds upon the initial Scoping Plan with new strategies and recommendations. In 2014, CARB revised the target using the GWP values from the IPCC AR4 and determined that the 1990 GHG emissions inventory and 2020 GHG emissions limit is 431 MMTCO2e. CARB also updated the State's 2020 NAT emissions estimate to account for the effect of the 2007–2009 economic recession, new estimates for future fuel and energy demand, and the reductions required by regulation that were recently adopted for motor vehicles and renewable energy. CARB's projected statewide 2020 emissions estimate using the GWP values from the IPCC AR4 is 509.4 MMTCO2e.

2017 Climate Change Scoping Plan

In response to the 2030 GHG reduction target, CARB adopted the 2017 Climate Change Scoping Plan at a public meeting held in December 2017. The 2017 Scoping Plan outlines the strategies the State will implement to achieve the 2030 GHG reduction target of 40 percent below 1990 levels. The 2017 Scoping Plan also addresses GHG emissions from natural and working lands of California, including the agriculture and forestry sectors. The 2017 Scoping Plan considered the Scoping Plan Scenario and four alternatives for achieving the required GHG reductions but ultimately selected the Scoping Plan Scenario.

CARB states that the Scoping Plan Scenario "is the best choice to achieve the State's climate and clean air goals."[6] Under the Scoping Plan Scenario, the majority of the reductions would result from the continuation of the Cap-and-Trade regulation. Additional reductions are achieved from electricity sector standards (i.e., utility providers to supply at least 50 percent renewable electricity by 2030), doubling the energy efficiency savings at end uses, additional reductions from the LCFS, implementing the short-lived GHG strategy (e.g., hydrofluorocarbons), and implementing the mobile source strategy and sustainable freight action plan. The alternatives were designed to consider various combinations of these programs, as well as consideration of a carbon tax in the event the Cap-and-Trade regulation is not continued. However, in July 2017, the California Legislature voted to extend the Cap-and-Trade regulation to 2030. Implementing this Scoping Plan will ensure that California's climate actions continue to promote innovation, drive the generation of new jobs, and achieve continued reductions of smog and air toxics. The ambitious approach draws on a decade of successful programs that address the major sources of climate-changing gases in every sector of the economy:

[6] California Air Resources Board, California's 2017 Climate Change Scoping Plan, November 2017, https://www.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf

- More Clean Cars and Trucks: The plan sets out far-reaching programs to incentivize the sale of millions of zero-emission vehicles, drive the deployment of zero-emission trucks, and shift to a cleaner system of handling freight statewide.
- Increased Renewable Energy: California's electric utilities are ahead of schedule meeting the requirement that 33 percent of electricity come from renewable sources by 2020. The Scoping Plan guides utilities to 50 percent renewables, as required under SB 350.
- Slashing Super-Pollutants: The plan calls for a significant cut in super-pollutants such as methane and HFC refrigerants, which are responsible for as much as 40 percent of global warming.
- Cleaner Industry and Electricity: California's renewed cap-and-trade program extends the declining cap on emissions from utilities and industries and the carbon allowance auctions. The auctions will continue to fund investments in clean energy and efficiency, particularly in disadvantaged communities.
- Cleaner Fuels: The Low Carbon Fuel Standard will drive further development of cleaner, renewable transportation fuels to replace fossil fuels.
- Smart Community Planning: Local communities will continue developing plans which will further link transportation and housing policies to create sustainable communities.
- Improved Agriculture and Forests: The Scoping Plan also outlines innovative programs to account for and reduce emissions from agriculture, as well as forests and other natural lands.

The 2017 Scoping Plan also evaluates reductions of smog-causing pollutants through California's climate programs.

SB 32, Pavley. California Global Warming Solutions Act of 2006

(1) The California Global Warming Solutions Act of 2006 designates the State Air Resources Board as the state agency charged with monitoring and regulating sources of emissions of greenhouse gases. The state board is required to approve a statewide greenhouse gas emissions limit equivalent to the statewide greenhouse gas emissions level in 1990 to be achieved by 2020 and to adopt rules and regulations in an open public process to achieve the maximum, technologically feasible, and cost-effective greenhouse gas emissions reductions. This bill would require the state board to ensure that statewide greenhouse gas emissions are reduced to 40% below the 1990 level by 2030.
(2) This bill would become operative only if AB 197 of the 2015–16 Regular Session is enacted and becomes effective on or before January 1, 2017. AB 197 requires that the California Air Resources Board, which directs implementation of emission-reduction programs, should target direct reductions at both stationary and mobile sources.

Senate Bill 1368

Senate Bill 1368 (SB 1368) is the companion Bill of AB 32 and was adopted September, 2006. SB 1368 requires the California Public Utilities Commission (CPUC) to establish a performance standard for baseload generation of GHG emissions by investor-owned utilities by February 1, 2007 and for local publicly owned utilities by June 30, 2007. These standards could not exceed the GHG emissions rate from a baseload combined-cycle, natural gas-fired plant. Furthermore, the legislation states that all electricity provided to the State, including imported electricity, must be generated by plants that meet the standards set by California Public Utilities Commission (CPUC) and California Energy Commission (CEC).

Executive Order S-1-07

Executive Order S-1-07 was issued in 2007 and proclaims that the transportation sector is the main source of GHG emissions in the State, since it generates more than 40 percent of the State's GHG emissions. It establishes a goal to reduce the carbon intensity of transportation fuels sold in the State by at least ten percent by 2020. This Order also directs CARB to determine whether this Low Carbon Fuel Standard (LCFS) could be adopted as a discrete early-action measure as part of the effort to meet the mandates in AB 32.

On April 23, 2009 CARB approved the proposed regulation to implement the low carbon fuel standard. The low carbon fuel standard is anticipated to reduce GHG emissions by about 16 MMT per year by 2020. The low carbon fuel standard is designed to provide a framework that uses market mechanisms to spur the steady introduction of lower carbon fuels. The framework establishes performance standards that fuel producers and importers must meet each year beginning in 2011. Separate standards are established for gasoline and diesel fuels and the alternative fuels that can replace each. The standards are "back-loaded", with more reductions required in the last five years, than during the first five years. This schedule allows for the development of advanced fuels that are lower in carbon than today's fuels and the market penetration of plug-in hybrid electric vehicles, battery electric vehicles, fuel cell vehicles, and flexible fuel vehicles. It is anticipated that compliance with the low carbon fuel standard will be based on a combination of both lower carbon fuels and more efficient vehicles.

Reformulated gasoline mixed with corn-derived ethanol at ten percent by volume and low sulfur diesel fuel represent the baseline fuels. Lower carbon fuels may be ethanol, biodiesel, renewable diesel, or blends of these fuels with gasoline or diesel as appropriate. Compressed natural gas and liquefied natural gas also may be low carbon fuels. Hydrogen and electricity, when used in fuel cells or electric vehicles are also considered as low carbon fuels for the low carbon fuel standard.

Senate Bill 97

Senate Bill 97 (SB 97) was adopted August 2007 and acknowledges that climate change is a prominent environmental issue that requires analysis under CEQA. SB 97 directed the Governor's Office of Planning and Research (OPR), which is part of the State Natural Resources Agency, to prepare, develop, and transmit to CARB guidelines for the feasible mitigation of GHG emissions or the effects of GHG emissions, as required by CEQA, by July 1, 2009. The Natural Resources Agency was required to certify and adopt those guidelines by January 1, 2010.

Pursuant to the requirements of SB 97 as stated above, on December 30, 2009 the Natural Resources Agency adopted amendments to the state CEQA guidelines that address GHG emissions. The CEQA Guidelines Amendments changed 14 sections of the CEQA Guidelines and incorporate GHG language throughout the Guidelines. However, no GHG emissions thresholds of significance were provided and no specific mitigation measures were identified. The GHG emission reduction amendments went into effect on March 18, 2010 and are summarized below:

- Climate action plans and other greenhouse gas reduction plans can be used to determine whether a project has significant impacts, based upon its compliance with the plan.
- Local governments are encouraged to quantify the greenhouse gas emissions of proposed projects, noting that they have the freedom to select the models and methodologies that best meet their needs and circumstances. The section also recommends consideration of several qualitative factors that may be used in the determination of significance, such as the extent to which the given project complies with state, regional, or local GHG reduction plans and policies. OPR does not set or dictate specific thresholds of significance. Consistent with existing CEQA Guidelines, OPR encourages local governments to develop and publish their own thresholds of significance for GHG impacts assessment.
- When creating their own thresholds of significance, local governments may consider the thresholds of significance adopted or recommended by other public agencies, or recommended by experts.
- New amendments include guidelines for determining methods to mitigate the effects of greenhouse gas emissions in Appendix F of the CEQA Guidelines.
- OPR is clear to state that "to qualify as mitigation, specific measures from an existing plan must be identified and incorporated into the project; general compliance with a plan, by itself, is not mitigation".
- OPR's emphasizes the advantages of analyzing GHG impacts on an institutional, programmatic level. OPR therefore approves tiering of environmental analyses and highlights some benefits of such an approach.
- Environmental impact reports (EIRs) must specifically consider a project's energy use and energy efficiency potential.

Senate Bills 1078, 107, and X1-2 and Executive Orders S-14-08 and S-21-09

Senate Bill 1078 (SB 1078) requires retail sellers of electricity, including investor-owned utilities and community choice aggregators, to provide at least 20 percent of their supply from renewable sources by 2017. Senate Bill 107 (SB 107) changed the target date to 2010. Executive Order S-14-08 was signed on November 2008 and expands the State's Renewable Energy Standard to 33 percent renewable energy by 2020. Executive Order S-21-09 directed CARB to adopt regulations by July 31, 2010 to enforce S-14-08. Senate Bill X1-2 codifies the 33 percent renewable energy requirement by 2020.

Senate Bill 375

Senate Bill 375 (SB 375) was adopted September 2008 and aligns regional transportation planning efforts, regional GHG emission reduction targets, and land use and housing allocation. SB 375 requires Metropolitan Planning Organizations (MPO) to adopt a sustainable communities strategy (SCS) or alternate planning strategy (APS) that will prescribe land use allocation in that MPOs Regional Transportation Plan (RTP). CARB, in consultation with each MPO, will provide each affected region with reduction targets for GHGs emitted by passenger cars and light trucks in the region for the years 2020 and 2035. These reduction targets will be updated every eight years but can be updated every four years if advancements in emissions technologies affect the reduction strategies to achieve the targets. CARB is also charged with reviewing each MPO's sustainable communities strategy or alternate planning strategy for consistency with its assigned targets.

The proposed project is located within the Southern California Association of Governments (SCAG) jurisdiction, which has authority to develop the SCS or APS. For the SCAG region, the targets set by CARB are at eight percent below 2005 per capita GHG emissions levels by 2020 and 19 percent below 2005 per capita GHG emissions levels by 2035. These reduction targets became effective October 2018.

Senate Bill X7-7

Senate Bill X7-7 (SB X7-7), enacted on November 9, 2009, mandates water conservation targets and efficiency improvements for urban and agricultural water suppliers. SB X7-7 requires the Department of Water Resources (DWR) to develop a task force and technical panel to develop alternative best management practices for the water sector. In addition SB X7-7 required the DWR to develop criteria for baseline uses for residential, commercial, and industrial uses for both indoor and landscaped area uses. The DWR was also required to develop targets and regulations that achieve a statewide 20 percent reduction in water usage.

Assembly Bill 939 and Senate Bill 1374

Assembly Bill 939 (AB 939) requires that each jurisdiction in California to divert at least 50 percent of its waste away from landfills, whether through waste reduction, recycling or other means. Senate Bill 1374 (SB 1374) requires the California Integrated Waste Management Board to adopt a model ordinance by March 1, 2004 suitable for adoption by any local agency to require 50 to 75 percent diversion of construction and demolition of waste materials from landfills.

California Code of Regulations (CCR) Title 24, Part 6

CCR Title 24, Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings (Title 24) were first established in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficiency technologies and methods. Although it was not originally intended to reduce GHG emissions, electricity production by fossil fuels results in GHG emissions and energy efficient buildings require less electricity. Therefore, increased energy efficiency results in decreased GHG emissions.

The Energy Commission adopted 2008 Standards on April 23, 2008, and Building Standards Commission approved them for publication on September 11, 2008. These updates became effective on August 1, 2009. CalEEMod modeling defaults to 2008 standards. 2013 Standards were approved and have been effective since July 1, 2014. 2016 Standards were adopted January 1, 2017. 2019 standards were published July 1, 2019 and became effective January 1, 2020. All buildings for which an application for a building permit is submitted on or after January 1, 2020 must follow the 2019 standards. The 2016 residential standards were estimated to be approximately 28 percent more efficient than the 2013 standards, whereas the 2019 residential standards are estimated to be approximately 7 percent more efficient than the 2016 standards. Furthermore, once rooftop solar electricity generation is factored in, 2019 residential standards are estimated to be approximately 53 percent more efficient than the 2016 standards. Under the 2019 standards, nonresidential buildings are estimated to be approximately 30 percent more efficient than the 2016 standards. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases greenhouse gas emissions.

Per Section 100 Scope, the 2019 Title 24, Part 6 Building Code now requires healthcare facilities, such as assisted living facilities, hospitals, and nursing homes, to meet documentation requirements of Title 24, Part 1 Chapter 7 – Safety Standards for Health Facilities. A healthcare facility is defined as any building or portion thereof licensed pursuant to California Health and Safety Code Division 2, Chapter 1, Section 1204 or Chapter 2, Section 1250.

Section 120.1 Ventilation and Indoor Air Quality included both additions and revisions in the 2019 Code. This section now requires nonresidential and hotel/motel buildings to have air filtration systems that use forced air ducts to supply air to occupiable spaces to have air filters. Further, the air filter efficiency must be either MERV 13 or use a particle size efficiency rating specific in the Energy Code AND be equipped with air filters with a minimum 2-inch depth or minimum 1-inch depth if sized according to the equation 120.1-A. If natural ventilation is to be used the space must also use mechanical unless ventilation openings are either permanently open or controlled to stay open during occupied times. The 2019 version of the Code also completely revised the minimum ventilation requirements including DVC airflow rates within Section 120.1 Table 120.1–A. Table 120.1-A now includes air classification and recirculation limitations, these are based on either the number of occupants or the CFM/ft^2 (cubic feet per minute per square foot), whichever is greater.

Section 120.1 Ventilation and Indoor Air Quality also included additions for high-rise residential buildings. Requirements include that mechanical systems must provide air filters that and that air filters must be MERV 13 or use a particle size efficiency rating specified in the Energy Code. Window operation is no longer a method allowed to meet ventilation requirements, continuous operation of central forced air system handlers used in central fan integrated ventilation system is not a permissible method of providing the dwelling unit ventilation airflow, and central ventilation systems that serve multiple dwelling units must be balanced to provide ventilation airflow to each dwelling unit. In addition, requirements for kitchen range hoods were also provided in the updated Section 120.1.

Per Section 120.1(a) healthcare facilities must be ventilated in accordance with Chapter 4 of the California Mechanical Code and are NOT required to meet the ventilations requirements of Title 24, Part 6.

Section 140.4 Space Conditioning Systems included both additions and revisions within the 2019 Code. The changes provided new requirements for cooling tower efficiency, new chilled water cooling system requirements, as well as new formulas for calculating allowed fan power. Section 140.4(n) also provide a new exception for mechanical system shut-offs for high-rise multifamily dwelling units, while Section 140.4(o) added new requirements for conditioned supply air being delivered to space with mechanical exhaust.

Section 120.6 Covered Processes added information in regards to adiabatic chiller requirements that included that all condenser fans for air-cooled converseness, evaporative-cooled condensers, adiabatic condensers, gas coolers, air or water fluid coolers or cooling towers must be continuously variable speed, with the speed of all fans serving a common condenser high side controlled in unison .Further, the mid-condensing setpoint must be 70 degrees Fahrenheit for all of the above mentioned systems.

New regulations were also adopted under Section 130.1 Indoor Lighting Controls. These included new exceptions being added for restrooms, the exception for classrooms being removed, as well as exceptions in regard to sunlight provided through skylights and overhangs.

Section 130.2 Outdoor Lighting Controls and Equipment added automatic scheduling controls which included that outdoor lighting power must be reduced by 50 to 90 percent, turn the lighting off during unoccupied times and have at least two scheduling options for each luminaire independent from each other and with a 2-hour override function. Furthermore, motion sensing controls must have the ability to reduce power within 15 minutes of area being vacant and be able to come back on again when occupied. An exception allows for lighting subject to a health or life safety statute, ordinance, or regulation may have a minimum time-out period longer than 15 minutes or a minimum dimming level above 50% when necessary to comply with the applicable law.

California Code of Regulations (CCR) Title 24, Part 11 (California Green Building Standards)

On January 12, 2010, the State Building Standards Commission unanimously adopted updates to the California Green Building Standards Code, which went into effect on January 1, 2011.

2016 CALGreen Code: The 2016 residential standards are estimated to be approximately 28 percent more efficient than the 2013 standards. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases greenhouse gas emissions. During the 2016-2017 fiscal year, the Department of Housing and Community Development (HCD) updated CALGreen through the 2015 Triennial Code Adoption Cycle.

HCD also increased the required construction waste reduction from 50 percent to 65 percent of the total building site waste. This increase aids in meeting CalRecycle's statewide solid waste recycling goal of 75 percent for 2020 as stated in Chapter 476, Statutes of 2011 (AB 341). HCD adopted new regulations requiring recycling areas for multifamily projects of five or more dwelling units. This regulation requires developers to provide readily accessible areas adequate in size to accommodate containers for depositing, storage and collection of non-hazardous materials (including organic waste) for recycling. This requirement assists businesses that were required as of April 1, 2016, to meet the requirements of Chapter 727, Statutes of 2014 (AB 1826).

HCD adopted new regulations to require information on photovoltaic systems and electric vehicle chargers to be included in operation and maintenance manuals. Currently, CALGreen section 4.410.1 Item 2(a) requires operation and maintenance instructions for equipment and appliances. Photovoltaic systems and electric vehicle chargers are systems that play an important role in many households in California, and their importance is increasing every day. HCD incorporated these two terms in the existing language in order to provide clarity to code users as to additional systems requiring operation and maintenance instructions.

HCD updated the reference to Clean Air Standards of the United States Environmental Protection Agency applicable to woodstoves and pellet stoves. HCD also adopted a new requirement for woodstoves and pellet stoves to have a permanent label indicating they are certified to meet the emission limits. This requirement provides clarity to the code user and is consistent with the United States Environmental Protection Agency's New Source Performance Standards. HCD updated the list of standards which can be used for verification of compliance for exterior grade composite wood products. This list now includes four standards from the Canadian Standards Association (CSA): CSA O121, CSA O151, CSA O153 and CSA O325. HCD updated heating and air-conditioning system design references to the ANSI/ACCA 2 Manual J, ANSI/ACCA 1 Manual D, and ANSI/ACCA 3 Manual S to the most recent versions approved by ANSI. HCD adopted a new elective measure for hot water recirculation systems for water conservation. The United States Department of Energy estimates that 3,600 to 12,000 gallons of water per year can be saved by the typical household (with four points of hot water use) if a hot water recirculation system is installed.

2019 CALGreen Code: During the 2019-2020 fiscal year, the Department of Housing and Community Development (HCD) updated CALGreen through the 2019 Triennial Code Adoption Cycle.

HCD modified the best management practices for stormwater pollution prevention adding Section 5.106.2 for projects that disturb one or more acres of land. This section requires projects that disturb one acre or more of land or less than one acre of land but are part of a larger common plan of development or sale must comply with the postconstruction requirement detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board. The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff pre-project hydrology) with installation of postconstruction stormwater management measures.

HCD added sections 5.106.4.1.3 and 5.106.4.1.5 in regard to bicycle parking. Section 5.106.4.1.3 requires new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility. In addition, Section 5.106.4.1.5 states that acceptable bicycle parking facility for Sections 5.106.4.1.2 through 5.106.4.1.4 shall be convenient from the street and shall meeting one of the following: (1) covered, lockable enclosures with permanently anchored racks for bicycles; (2) lockable bicycle rooms with permanently anchored racks; or (3) lockable, permanently anchored bicycle lockers.

HCD amended section 5.106.5.3.5 allowing future charging spaces to qualify as designated parking for clean air vehicles.

HCD updated section 5.303.3.3 in regard to showerhead flow rates. This update reduced the flow rate to 1.8 GPM.

HCD amended section 5.304.1 for outdoor potable water use in landscape areas and repealed sections 5.304.2 and 5.304.3. The update requires nonresidential developments to comply with a local water efficient landscape ordinance or the current California Department of Water Resource's' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent. Some updates were also made in regard to the outdoor potable water use in landscape areas for public schools and community colleges.

HCD updated Section 5.504.5.3 in regard to the use of MERV filters in mechanically ventilated buildings. This update changed the filter use from MERV 8 to MERV 13. MERV 13 filters are to be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Executive Order B-30-15

On April 29, 2015, Governor Brown issued Executive Order B-30-15. Therein, the Governor directed the following:

- Established a new interim statewide reduction target to reduce GHG emissions to 40 percent below 1990 levels by 2030.
- Ordered all state agencies with jurisdiction over sources of GHG emissions to implement measures to achieve reductions of GHG emissions to meet the 2030 and 2050 reduction targets.
- Directed CARB to update the Climate Change Scoping Plan to express the 2030 target in terms of million metric tons of carbon dioxide equivalent.

Executive Order B-29-15

Executive Order B-29-15, mandates a statewide 25 percent reduction in potable water usage. EO B-29-15 signed into law on April 1, 2015.

Executive Order B-37-16

Executive Order B-37-16, continuing the State's adopted water reductions, was signed into law on May 9, 2016. The water reductions build off the mandatory 25 percent reduction called for in EO B-29-15.

SBX1 2

Signed into law in April 2011, SBX1 2, requires one-third of the state's electricity to come from renewable sources. The legislation increases California's current 20 percent renewables portfolio standard target in 2010 to a 33 percent renewables portfolio standard by December 31, 2020.

Senate Bill 350

Signed into law October 7, 2015, SB 350 increases California's renewable electricity procurement goal from 33 percent by 2020 to 50 percent by 2030. This will increase the use of Renewables Portfolio Standard (RPS) eligible resources, including solar, wind, biomass, geothermal, and others. In addition, SB 350 requires the state to double statewide energy efficiency savings in electricity and natural gas end uses by 2030. To help ensure these goals are met and the greenhouse gas emission reductions are realized, large utilities will be required to develop and submit Integrated Resource Plans (IRPs). These IRPs will detail how each entity will meet their customers resource needs, reduce greenhouse gas emissions and ramp up the deployment of clean energy resources.

AB 617 Nonvehicular air pollution: criteria air pollutants and toxic air contaminants

This bill requires the state board to develop a uniform statewide system of annual reporting of emissions of criteria air pollutants and toxic air contaminants for use by certain categories of stationary sources. The bill requires those stationary sources to report their annual emissions of criteria air pollutants and toxic air contaminants, as specified. This bill required the state board, by October 1, 2018, to prepare a monitoring plan regarding technologies for monitoring criteria air pollutants and toxic air contaminants and the need for and benefits of additional community air monitoring systems, as defined. The bill requires the state board to select, based on the monitoring plan, the highest priority locations in the state for the deployment of community air monitoring systems. The bill requires an air district containing a selected location, by July 1, 2019, to deploy a system in the selected location. The bill would authorize the air district to require a stationary source that emits air pollutants in, or that materially affect, the selected location to deploy a fence-line monitoring system, as defined, or other specified real-time, on-site monitoring. The bill authorizes the state board, by January 1, 2020, and annually thereafter, to select additional locations for the deployment of the systems. The bill would require air districts that have deployed a system to provide to the state board air quality data produced by the system. By increasing the duties of air districts, this bill would impose a state-mandated local program. The bill requires the state board to publish the data on its Internet Web site.

Senate Bill 350

Signed into law October 7, 2015, SB 350 increases California's renewable electricity procurement goal from 33 percent by 2020 to 50 percent by 2030. This will increase the use of Renewables Portfolio Standard (RPS) eligible resources, including solar, wind, biomass, geothermal, and others. In addition, SB 350 requires the state to double statewide energy efficiency savings in electricity and natural gas end uses by 2030. To help ensure these goals are met and the greenhouse gas emission reductions are realized, large utilities will be required to develop and submit Integrated Resource Plans (IRPs). These IRPs will detail how each entity will meet their customers resource needs, reduce greenhouse gas emissions and ramp up the deployment of clean energy resources.

Energy Sector and CEQA Guidelines Appendix F

The CEC first adopted Energy Efficiency Standards for Residential and Nonresidential Buildings (CCR, Title 24, Part 6) in 1978 in response to a legislative mandate to reduce energy consumption in the state. Although not originally intended to reduce GHG emissions, increased energy efficiency and reduced consumption of electricity, natural gas, and other fuels would result in fewer GHG emissions from residential and nonresidential buildings subject to the standard. The standards are updated periodically (typically every three years) to allow for the consideration and inclusion of new energy efficiency technologies and methods. The 2016 update to the Energy Efficiency Standards for Residential and Nonresidential Buildings focuses on several key areas to improve the energy efficiency of renovations and addition to existing buildings as well as newly constructed buildings and renovations and additions to existing buildings. The major efficiency improvements to the residential Standards involve improvements for attics, walls, water heating, and lighting, whereas the major efficiency improvements to the nonresidential Standards include alignment with the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) 90.1-2013 national standards. Furthermore, the 2016 update requires that enforcement agencies determine compliance with CCR, Title 24, Part 6 before issuing building permits for any construction.[7]

Part 11 of the Title 24 Building Energy Efficiency Standards is referred to as the California Green Building Standards (CALGreen) Code. The purpose of the CALGreen Code is to "improve public health, safety and general welfare by enhancing the design and construction of buildings through the use of building concepts having a reduced negative impact or positive environmental impact and encouraging sustainable construction practices in the following categories: (1) Planning and design; (2) Energy efficiency; (3) Water efficiency and conservation; (4) Material conservation and resource efficiency; and (5) Environmental air quality."8 As of January 1, 2011, the CALGreen Code is mandatory for all new buildings constructed in the state. The CALGreen Code establishes mandatory measures for new residential and non-residential buildings. Such mandatory measures include energy efficiency, water conservation, material conservation, planning and design, and overall environmental quality. The CALGreen Code was most recently updated in 2019 to include new mandatory measures for residential and nonresidential uses; the new measures took effect on January 1, 2020.

REGIONAL

The SCAQMD is the agency principally responsible for comprehensive air pollution control in the South Coast Air Basin. To that end, as a regional agency, the SCAQMD works directly with the Southern California Association of Governments (SCAG), county transportation commissions, and local governments and cooperates actively with all federal and state agencies.

South Coast Air Quality Management District

The SCAQMD develops rules and regulations, establishes permitting requirements for stationary sources, inspects emission sources, and enforces such measures through educational programs or fines, when necessary. The SCAQMD is directly responsible for reducing emissions from stationary, mobile, and indirect sources. It has responded to this requirement by preparing a sequence of AQMPs. On June 30, 2016, the SCAQMD released its Draft 2016 AQMP. The 2016 AQMP is a regional blueprint for achieving the federal air quality standards and healthful air.

Air Quality Management Plan

The 2016 AQMP includes both stationary and mobile source strategies to ensure that rapidly approaching attainment deadlines are met, that public health is protected to the maximum extent feasible, and that the

[7] California Energy Commission, 2016 Building Energy Efficiency Standards, June 2015, http://www.energy.ca.gov/2015publications/CEC-400-2015-037/CEC-400-2015-037-CMF.pdf

[8] California Building Standards Commission, 2010 California Green Building Standards Code, (2010).

region is not faced with burdensome sanctions if the Plan is not approved or if the NAAQS are not met on time. As with every AQMP, a comprehensive analysis of emissions, meteorology, atmospheric chemistry, regional growth projections, and the impact of existing control measures is updated with the latest data and methods. The most significant air quality challenge in the Basin is to reduce nitrogen oxide (NOx) emissions sufficiently to meet the upcoming ozone standard deadlines. On March 23, 2017 CARB approved the 2016 AQMP. The primary goal of this Air Quality Management Plan is to meet clean air standards and protect public health, including ensuring benefits to environmental justice and disadvantaged communities. Now that the Plan has been approved by CARB, it has been forwarded to the U.S. Environmental Protection Agency for its review. The Plan was approved by the EPA on June 15, 2017.

On June 21, 2002, the SCAQMD adopted the 2002 Coachella Valley PM10 State Implementation Plan (CVSIP). The 2002 CVSIP, which included a request for extension of the PM10 deadline and met all applicable federal Clean Air Act requirements, including a Most Stringent Measures analysis, control measures, and attainment demonstration. U.S. EPA approved the 2002 CVSIP on April 18, 2003. At the time of adoption, the AQMD committed to revising with the 2002 CVSIP with the latest approved mobile source emissions estimates, planning assumptions and fugitive dust source emission estimates, when they became available.

The 2003 CVSIP updates those elements of the 2002 CVSIP; the control strategies and control measure commitments have not been revised and remain the same as in the 2002 CVSIP. The 2003 CVSIP contains updated emissions inventories, emission budgets, and attainment modeling. It requests that U.S. EPA replace the approved transportation conformity budgets in the 2002 CVSIP with those in the 2003 CVSIP. U.S. EPA approved these budgets on March 25, 2004 with an effective date of April 9, 2004.

During construction and operation, the project must comply with applicable rules and regulations. The following are rules the project may be required to comply with, either directly, or indirectly:

SCAQMD Rule 201

Requites a permit to construction. Per SCAQMD Rule 201, a person shall not build, erect, install, alter or replace any equipment or agricultural permit unit, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce or control the issuance of air contaminants without first obtaining written authorization for such construction from the Executive Officer. A permit to construct shall remain in effect until the permit to operate the equipment or agricultural permit unit for which the application was filed is granted or denied, or the application is canceled.

SCAQMD Rule 203

Requires a permit to operate. Per SCAQMD Rule 203, a person shall not operate or use any equipment or agricultural permit unit, the use of which may cause the issuance of air contaminants, or the use of which may reduce or control the issuance of air contaminants, without first obtaining a written permit to operate from the Executive Officer or except as provided in Rule 202. Furthermore, the equipment or agricultural permit unit shall not be operated contrary to the conditions specified in the permit to operate.

SCAQMD Rule 402

Prohibits a person from discharging from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.

SCAQMD Rule 403

Governs emissions of fugitive dust during construction and operation activities. Compliance with this rule is achieved through application of standard Best Management Practices, such as application of water or chemical stabilizers to disturbed soils, covering haul vehicles, restricting vehicle speeds on unpaved roads to 15 miles per hour, sweeping loose dirt from paved site access roadways, cessation of construction activity when winds exceed 25 mph, and establishing a permanent ground cover on finished sites.

Rule 403 requires that fugitive dust be controlled with best available control measures so that the presence of such dust does not remain visible in the atmosphere beyond the property line of the emission source. In addition, SCAQMD Rule 403 requires implementation of dust suppression techniques to prevent fugitive dust from creating a nuisance off-site. Applicable dust suppression techniques from Rule 403 are summarized below. Implementation of these dust suppression techniques can reduce the fugitive dust generation (and thus the PM_{10} component). Compliance with these rules would reduce impacts on nearby sensitive receptors. Rule 403 measures may include but are not limited to the following:

- Apply nontoxic chemical soil stabilizers according to manufacturers' specifications to all inactive construction areas (previously graded areas inactive for 10 days or more).
- Water active sites at least three times daily. (Locations where grading is to occur will be thoroughly watered prior to earthmoving.)
- Cover all trucks hauling dirt, sand, soil, or other loose materials, or maintain at least 0.6 meters (2 feet) of freeboard (vertical space between the top of the load and top of the trailer) in accordance with the requirements of California Vehicle Code section 23114.
- Reduce traffic speeds on all unpaved roads to 15 miles per hour (mph) or less.
- Suspension of all grading activities when wind speeds (including instantaneous wind gusts) exceed 25 mph.
- Bumper strips or similar best management practices shall be provided where vehicles enter and exit the construction site onto paved roads or wash off trucks and any equipment leaving the site each trip.
- Replanting disturbed areas as soon as practical.
- During all construction activities, construction contractors shall sweep on-site and off-site streets if silt is carried to adjacent public thoroughfares, to reduce the amount of particulate matter on public streets. All sweepers shall be compliant with SCAQMD Rule 1186.1, Less Polluting Sweepers.

SCAQMD Rule 403.1 is supplemental to Rule 403 requirements and shall apply only to fugitive dust sources in the Coachella Valley.

(d) General Requirements of 403.1

(1) Any person who is responsible for any active operation, open storage pile, or disturbed surface area, and who seeks an exemption pursuant to Rule 403, paragraph (g)(2) shall be required to determine when wind speed conditions exceed 25 miles per hour. The wind speed determination shall be based on either District forecasts or through use of an on-site anemometer as described in subdivision (g).

(2) Any person involved in active operations in the Coachella Valley Blowsand Zone shall stabilize new man-made deposits of bulk material within 24 hours of making such bulk material deposits. Stabilization procedures shall include one or more of the following: (A) Application of water to at least 70 percent of the surface area of any bulk material deposits at least 3 times for each day that there is evidence of wind driven fugitive dust; or (B) Application of chemical stabilizers in sufficient concentration so as to maintain a stabilized surface for a period of at least 6 months; or

(3) Installation of wind breaks of such design so as to reduce maximum wind gusts to less than 25 miles per hour in the area of the bulk material deposits. (3) Any person involved in active operations in the Coachella Valley Blowsand Zone shall stabilize new deposits of bulk material originating from off-site undisturbed natural desert areas within 72 hours.

Stabilization procedures shall include one or more of the following: (A) Application of water to at least 70 percent of the surface area of any bulk material deposits at least 3 times for each day that there is evidence of wind driven fugitive dust; or (B) Application of chemical stabilizers in sufficient concentration so as to maintain a stabilized surface for a period of at least six months.

(4) A person who conducts or authorizes the conducting of an active operation shall implement at least one of the control actions specified in Rule 403, Table 2 for the source category "Inactive Disturbed Surface Areas" to minimize wind driven fugitive dust from disturbed surface areas at such time when active operations have ceased for a period of at least 20 days.

(5) Any person involved in agricultural tilling or soil mulching activities shall cease such activities when wind speeds exceed 25 miles per hour. The wind speed determination shall be based on either District forecasts or through use of an on-site anemometer as described in subdivision (g).

(e) Fugitive Dust Control Plan and Other Requirements for Construction Projects/Earth-Moving Activities

(1) Any person who conducts or authorizes the conducting of an active operation with a disturbed surface area of more than 5,000 square feet shall not initiate any earth-moving activities unless a fugitive dust control plan is prepared and approved by the Executive Officer in accordance with the requirements of subdivision (f) and the Rule 403.1 Implementation Handbook. These provisions shall not apply to active operations exempted by paragraph (i)(4).

(2) Any operator required to submit a fugitive dust control plan under paragraph (e)(1) shall maintain a complete copy of the approved fugitive dust control plan on-site in a conspicuous place at all times and the fugitive dust control plan must be provided upon request.

(3) Any operator required to submit a fugitive dust control plan under paragraph (e)(1) shall install and maintain signage with project contact information that meets the minimum standards of the Rule 403.1 Implementation Handbook prior to initiating any type of earth-moving activities.

(4) Any operator required to submit a fugitive dust control plan under paragraph (e)(1) for a project with a disturbed surface area of 50 or more acres shall have an Dust Control Supervisor that: (A) is employed by or contracted with the property owner or developer; and (B) is on-site or is available to be on-site within 30 minutes of initial contact; and (C) has the authority to expeditiously employ sufficient dust mitigation measures to ensure compliance with all Rule 403 and 403.1 requirements; and (D) has completed the AQMD Coachella Valley Fugitive Dust Control Class and has been issued a valid Certificate of Completion for the class.

(5) Failure to comply with any of the provisions of an approved fugitive dust control plan shall be a violation of this rule.

SCAQMD Rule 445

Prohibits permanently installed wood burning devices into any new development. A wood burning device means any fireplace, wood burning heater, or pellet-fueled wood heater, or any similarly enclosed, permanently installed, indoor or outdoor device burning any solid fuel for aesthetic or space-heating purposes, which has a heat input of less than one million British thermal units per hour.

SCAQMD Rule 481

Applies to all spray painting and spray coating operations and equipment. The rule states that a person shall not use or operate any spray painting or spray coating equipment unless one of the following conditions is met:

(1) The spray coating equipment is operated inside a control enclosure, which is approved by the Executive Officer. Any control enclosure for which an application for permit for new construction, alteration, or change of ownership or location is submitted after the date of adoption of this rule shall be exhausted only through filters at a design face velocity not less than 100 feet per minute nor greater than 300 feet per minute, or through a water wash system designed to be equally effective for the purpose of air pollution control.
(2) Coatings are applied with high-volume low-pressure, electrostatic and/or airless spray equipment.
(3) An alternative method of coating application or control is used which has effectiveness equal to or greater than the equipment specified in the rule.

SCAQMD Rule 1108

Governs the sale, use, and manufacturing of asphalt and limits the volatile organic compound (VOC) content in asphalt used in the South Coast Air Basin. This rule would regulate the VOC content of asphalt used during construction. Therefore, all asphalt used during construction of the project must comply with SCAQMD Rule 1108.

SCAQMD Rule 1113

Governs the sale, use, and manufacturing of architectural coating and limits the VOC content in paints and paint solvents. This rule regulates the VOC content of paints available during construction. Therefore, all paints and solvents used during construction and operation of the project must comply with SCAQMD Rule 1113.

SCAQMD Rule 1134

Reduces emissions of oxides of nitrogen (NOx) from stationary gas turbines. The provisions of this rule shall apply to all stationary gas turbines, 0.3 megawatt (MW) and larger. This rule does not apply to stationary gas turbines: subject to Rule 1135 – Emissions of Oxides of Nitrogen from Electricity Generating Facilities; located at petroleum refineries, landfills, or publicly owned treatment works; or fueled by landfill gas.

SCAQMD Rule 1143

Governs the manufacture, sale, and use of paint thinners and solvents used in thinning of coating materials, cleaning of coating application equipment, and other solvent cleaning operations by limiting their VOC content. This rule regulates the VOC content of solvents used during construction. Solvents used during the construction phase must comply with this rule.

SCAQMD Rule 1186

Limits the presence of fugitive dust on paved and unpaved roads and sets certification protocols and requirements for street sweepers that are under contract to provide sweeping services to any federal, state, county, agency or special district such as water, air, sanitation, transit, or school district.

SCAQMD Rule 1303

Governs the permitting of re-located or new major emission sources, requiring Best Available Control Measures and setting significance limits for PM_{10} among other pollutants.

SCAQMD Rule 1401

New Source Review of Toxic Air Contaminants, specifies limits for maximum individual cancer risk, cancer burden, and non-cancer acute and chronic hazard index from new permit units, relocations, or modifications to existing permit units, which emit toxic air contaminants.

SCAQMD Rule 2202

On-Road Motor Vehicle Mitigation Options, is to provide employers with a menu of options to reduce mobile source emissions generated from employee commutes, to comply with federal and state Clean Air Act requirements, Health & Safety Code Section 40458, and Section 182(d)(1)(B) of the federal Clean Air Act. It applies to any employer who employs 250 or more employees on a full or part-time basis at a worksite for a consecutive six-month period calculated as a monthly average.

In order to assist local agencies with direction on GHG emissions, the SCAQMD organized a working group and adopted Rules 2700, 2701, 2702, and 3002 which are described below.

SCAQMD Rules 2700 and 2701

The SCAQMD adopted Rules 2700 and 2701 on December 5, 2008, which establishes the administrative structure for a voluntary program designed to quantify GHG emission reductions. Rule 2700 establishes definitions for the various terms used in Regulation XXVII – Global Climate Change. Rule 2701 provides specific protocols for private parties to follow to generate certified GHG emission reductions for projects within the district. Approved protocols include forest projects, urban tree planting, and manure management. The SCAQMD is currently developing additional protocols for other reduction measures. For a GHG emission reduction project to qualify, it must be verified and certified by the SCAQMD Executive Officer, who has 60 days to approve or deny the Plan to reduce GHG emissions. Upon approval of the Plan, the Executive Officer issues required to issue a certified receipt of the GHG emission reductions within 90 days.

SCAQMD Rule 2702

The SCAQMD adopted Rule 2702 on February 6, 2009, which establishes a voluntary air quality investment program from which SCAQMD can collect funds from parties that desire certified GHG emission reductions, pool those funds, and use them to purchase or fund GHG emission reduction projects within two years, unless extended by the Governing Board. Priority will be given to projects that result in co-benefit emission reductions of GHG emissions and criteria or toxic air pollutants within environmental justice areas. Further, this voluntary program may compete with the cap-and-trade program identified for implementation in CARB's Scoping Plan, or a Federal cap and trade program.

SCAQMD Rule 3002

The SCAQMD amended Rule 3002 on November 5, 2010 to include facilities that emit greater than 100,000 tons per year of CO_2e are required to apply for a Title V permit by July 1, 2011. A Title V permit is for facilities that are considered major sources of emissions.

Air Quality Guidance Documents

SCAQMD CEQA Handbook

Although the SCAQMD is responsible for regional air quality planning efforts, it does not have the authority to directly regulate air quality issues associated with plans and new development projects throughout the South Coast Air Basin. Instead, this is controlled through local jurisdictions in accordance with the California Environmental Quality Act (CEQA). In order to assist local jurisdictions with air quality compliance issues the CEQA Air Quality Handbook (SCAQMD CEQA Handbook) prepared by the SCAQMD (1993) with the most current updates found at http://www.aqmd.gov/ceqa/hdbk.html, was developed in accordance with the projections and programs of the AQMP. The purpose of the SCAQMD CEQA Handbook is to assist Lead Agencies, as well as consultants, project proponents, and other interested parties in evaluating a proposed project's potential air quality impacts. Specifically, the SCAQMD CEQA Handbook explains the procedures that the SCAQMD recommends be followed for the environmental review process required by CEQA. The SCAQMD CEQA Handbook provides direction on how to evaluate potential air quality impacts, how to

determine whether these impacts are significant, and how to mitigate these impacts. SCAQMD is in the process of developing an "Air Quality Analysis Guidance Handbook" to replace the CEQA Air Quality Handbook approved by the AQMD Governing Board in 1993. The 1993 CEQA Air Quality Handbook is still available but not online. In addition, there are sections of the 1993 Handbook that are obsolete. In order to assist the CEQA practitioner in conducting an air quality analysis while the new Handbook is being prepared, supplemental information regarding: significance thresholds and analysis, emissions factors, cumulative impacts emissions analysis, and other useful subjects, are available at the SCAQMD website[9].

SCAQMD Working Group

Since neither CARB nor the OPR has developed GHG emissions threshold, the SCAQMD formed a Working Group to develop significance thresholds related to GHG emissions. At the September 28, 2010 Working Group meeting, the SCAQMD released its most current version of the draft GHG emissions thresholds, which recommends a tiered approach that provides a quantitative annual thresholds of 10,000 MTCO2e for industrial uses.

Southern California Association of Governments (SCAG)

SCAG is the regional planning agency for Los Angeles, Orange, Ventura, Riverside, San Bernardino and Imperial Counties and addresses regional issues relating to transportation, the economy, community development and the environment. SCAG is the Federally designated MPO for the majority of the southern California region and is the largest MPO in the nation. With respect to air quality planning, SCAG has prepared the Regional Transportation Plan and Regional Transportation Improvement Plan (RTIP), which addresses regional development and growth forecasts. These plans form the basis for the land use and transportation components of the AQMP, which are utilized in the preparation of air quality forecasts and in the consistency analysis included in the AQMP. The Regional Transportation Plan, Regional Transportation Improvement Plan, and AQMP are based on projections originating within the City and County General Plans.

On April 7, 2016, SCAG's Regional Council adopted the 2016-2040 Regional Transportation Plan/ Sustainable Communities Strategy (2016 RTP/SCS or Plan). The Plan is a long-range visioning plan that balances future mobility and housing needs with economic, environmental and public health goals. The Plan charts a course for closely integrating land use and transportation – so that the region can grow smartly and sustainably. It outlines more than $556.5 billion in transportation system investments through 2040. The Plan was prepared through a collaborative, continuous, and comprehensive process with input from local governments, county transportation commissions, tribal governments, non-profit organizations, businesses and local stakeholders within the counties of Imperial, Los Angeles, Orange, Riverside, San Bernardino and Ventura. In June 2016, SCAG received its conformity determination from the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) indicating that all air quality conformity requirements for the 2016 RTP/SCS and associated 2015 FTIP Consistency Amendment through Amendment 15-12 have been met.

Coachella Valley Model Dust Control Ordinance (see also SCAQMD Rule 403.1)

The Coachella Valley Dust Control Ordinance was designed to establish minimum requirements for construction and demolition activities and other specified sources in order to reduce man-made fugitive dust and the corresponding PM10 emissions. The Ordinance establishes following rules associated with reducing the fugitive dust emissions associated with the project:

Section 400 Control Requirements

410. Work Practices – All Fugitive Dust Sources

[9] http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook.

1. No operator shall conduct any potential dust-generating activity on a site unless the operator utilizes one or more Coachella Valley Best Available Control Measures, as identified in the Coachella Valley Fugitive Dust Control Handbook for each fugitive dust source such that the applicable performance standards are met.

2. Any operator involved in any potential dust-generating activity on a site with a disturbed surface area greater than one acre shall, at a minimum, operate a water application system as identified in the Coachella Valley Fugitive Dust Control Handbook, if watering is the selected control measure.

Performance Standards and Test Methods

3. No person subject to the requirements contained in Section 410.1 shall cause or allow visible fugitive dust emissions to exceed 20 percent opacity, or extend more than 100 feet either horizontally or vertically from the origin of a source, or cross any property line.

420. Construction and Demolition Activities

1. Any operator applying for a grading permit, or a building permit for an activity with a disturbed surface area of more than 5,000 square feet, shall not initiate any earth-moving operations unless a Fugitive Dust Control Plan has been prepared pursuant to the provisions of the Coachella Valley Fugitive Dust Control Handbook and approved by the City (County).

2. A complete copy of the approved Fugitive Dust Control Plan must be kept on-site in a conspicuous place at all times and provided to the City (County) and AQMD upon request.

4. Any operator involved in earth-moving operations shall implement at least one of the following short-term stabilization methods during non-working hours:

    A. maintaining soils in a damp condition as determined by sight or touch; or
    B. establishment of a stabilized surface through watering; or
    C. application of a chemical dust suppressant in sufficient quantities and concentrations to maintain a stabilized surface.

5. Within 10 days of ceasing activity, an operator shall implement at least one of the following long-term stabilization techniques for any disturbed surface area where construction activities are not scheduled to occur for at least 30 days:

    A. revegetation that results in 75 percent ground coverage provided that an active watering system is in place at all times; or
    B. establishment of a stabilized surface through watering with physical access restriction surrounding the area; or
    C. use of chemical stabilizers to establish a stabilized surface with physical access restriction surrounding the area.

6. Any operator shall remove all bulk material track-out from any site access point onto any paved road open to through traffic:

    A. within one hour if such material extends for a cumulative distance of greater than 25 feet from any site access point; and
    B. at the conclusion of each workday.

7. Any operator of a project with a disturbed surface area of five or more acres or of any project that involves the import or export of at least 100 cubic yards of bulk material per day shall install and

maintain at least one of the following control measures at the intersection of each site entrance and any paved road open to through traffic with all vehicles exiting the site routed over the selected device(s):

A. pad consisting of minimum one inch washed gravel maintained in a clean condition to a depth of at least six inches and extending at least 30 feet wide and at least 50 feet long; or
B. paved surface extending at least 100 feet and at least 20 feet wide; or
C. wheel shaker / wheel spreading device consisting of raised dividers (rails, pipe, or grates) at least three inches tall and at least six inches apart and 20 feet long; or

8. Any operator required to submit a Fugitive Dust Control Plan under Section 420.1 shall install and maintain project contact signage that meets the minimum standards of the Coachella Valley Fugitive Dust Control Handbook, including a 24-hour manned toll-free or local phone number, prior to initiating any type of earth-moving operations.

9. Any operator of a project with a disturbed surface area of 50 or more acres shall have an Environmental Observer on the site or available on-site within 30 minutes of initial contact that:

A. is hired by the property owner or developer; and
B. has dust control as the sole or primary responsibility; and
C. has successfully completed the AQMD Coachella Valley Fugitive Dust Control Class and has been issued a Certificate of Completion for the class; and
D. is identified in the approved Fugitive Dust Control Plan as having the authority to immediately employ sufficient dust mitigation 24-hours per day, seven days a week and to ensure compliance with this ordinance, the approved Fugitive Dust Control Plan, and AQMD regulations.

Performance Standards and Test Methods

10. No operator required to submit a Fugitive Dust Control Plan under Section 420.1 shall cause or allow visible fugitive dust emissions to exceed 20 percent opacity, or extend more than 100 feet either horizontally or vertically from the origin of a source, or cross any property line.

11. Exceedance of the visible emissions prohibition in Section 420.10 occurring due to a high-wind episode shall constitute a violation of Section 420.10, unless the operator demonstrates to City (County) all the following conditions:

A. all Fugitive Dust Control Plan measures or applicable Coachella Valley Best Available Control Measures were implemented and maintained on-site; and
B. the exceedance could not have been prevented by better application, implementation, operation, or maintenance of control measures; and
C. appropriate recordkeeping was complied and retained in accordance with the requirements in Section 420.12 through 420.15; and
D. documentation of the high-wind episode on the day(s) in question is provided by appropriate records.

Reporting / Recordkeeping

Before Construction

12. The operator of a project with ten acres or more of earth-moving operations shall:

A. forward two copies of a Site-Specific, Stand Alone [8½ by 11 inch] Fugitive Dust Control Plan to the AQMD within ten days after approval by the City (County). [Note: A separate AQMD approval will not be issued]; and
B. notify the City (County) and the AQMD at least 24-hours prior to initiating earth-moving operations.

During Construction

13. Any operator involved in earth-moving operations shall compile, and maintain for a period of not less than three years, daily self-inspection recordkeeping forms in accordance with the guidelines contained in the Coachella Valley Fugitive Dust Control Handbook.

14. Any operator involved in earth-moving operations that utilizes chemical dust suppressants for dust control on a site shall compile records indicating the type of product applied, vendor name, and the method, frequency, concentration, quantity and date(s) of application and shall retain such records for a period of not less than three years.

After Construction

15. Any operator subject to the provisions of Section 420.12 shall notify the City (County) and the AQMD within ten days of the establishment of the finish grade or at the conclusion of the finished grading inspection.

430. Disturbed Vacant Lands / Weed Abatement Activities

1. Owners of property with a disturbed surface area greater than 5,000 square feet shall within 30 days of receiving official notice by the City (County) prevent trespass through physical access restriction as permitted by the City (County).

2. In the event that implementation of Section 430.1 is not effective in establishing a stabilized surface within 45 days of restricting access, the owner shall implement at least one of the following long term stabilization techniques within an additional 15 days, unless the City (County) has determined that the land has been restabilized:

    A. uniformly apply and maintain surface gravel or chemical dust suppressants such that a stabilized surface is formed; or
    B. begin restoring disturbed surfaces such that the vegetative cover and soil characteristics are similar to adjacent or nearby undisturbed native conditions. Such restoration control measure(s) must be maintained and reapplied, if necessary, such that a stabilized surface is formed within 8 months of the initial application.

3. Any operator conducting weed abatement activities on a site that results in a disturbed surface area of 5,000 or more square feet shall:

    A. apply sufficient water before and during weed abatement activities such that the applicable performance standards are met.
    B. ensure that the affected area is a stabilized surface once weed abatement activities have ceased.

Performance Standards and Test Methods

4. No person subject to the provisions of Sections 430.1 through 430.3 shall cause or allow visible fugitive dust emissions to exceed 20 percent opacity, or extend more than 100 feet either horizontally or vertically from a source, or cross any property line, and shall either:

    A. maintain a stabilized surface; or
    B. maintain a threshold friction velocity for disturbed surface areas corrected for non-erodible elements of 100 centimeters per second or higher.

Reporting / Recordkeeping

5. Within 90 days of ordinance adoption, operators of property with disturbed surface area of 5,000 or more square feet shall notify the City (County) of the location of such lands and provide owner contact information.

6. Any person subject to the provisions of Sections 430.1 through 403.3 shall compile, and retain for a period of not less than three years, records indicating the name and contact person of all firms contracted with for dust mitigation, listing of dust control implements used on-site, and invoices from dust suppressant contractors/vendors.

460. Public or Private Paved Roads

1. Any owner of paved roads shall construct, or require to be constructed all new or widened paved roads in accordance with the following standards:

    A. curbing in accordance with the American Association of State Highway and Transportation Officials guidelines or as an alternative, road shoulders paved or treated with chemical dust suppressants or washed gravel in accordance with the performance standards included in Section 440.4 with the following minimum widths:

Average Daily Trips	Minimum Shoulder Width
500 - 3,000	4 feet
3,000 or greater	8 feet

Section 500 Administrative Requirements

1. Any operator preparing a Fugitive Dust Control Plan shall complete the AQMD Coachella Valley Fugitive Dust Control Class and maintain a current valid Certificate of Completion.

2. At least one representative of each construction or demolition general contractor and subcontractor responsible for earth-movement operations shall complete the AQMD Coachella Valley Fugitive Dust Control Class and maintain a current valid Certificate of Completion.

3. All reporting / recordkeeping required by Section 420 shall be provided to the City (County) and AQMD representatives immediately upon request.

4. All reporting / recordkeeping required by Section 430 through Section 460 shall be provided to the City (County) and AQMD representatives within 24-hours of a written request.

LOCAL – CITY OF DESERT HOT SPRINGS

Local jurisdictions, such as the City of Desert Hot Springs, have the authority and responsibility to reduce air pollution through its police power and decision-making authority. It is the responsibility of the District, CVAG, and the City of Desert Hot Springs to monitor pollutant levels and regulate air pollution sources. With the installation of additional monitoring devices in the Whitewater River, the District is collecting data to establish a "naturally occurring" or "background" level for PM10 in the Coachella Valley. This data will allow a more meaningful estimate of manmade PM10 emissions. The General Plan Air Quality Element contains the following goals, policies and programs aimed at reducing air pollution:

Goal

Good regional air quality preserved and enhanced for the protection of the health and welfare of the community as a whole.

Policy 1

The City shall coordinate and cooperate with CVAG and SCAQMD in the ongoing monitoring and management of major pollutants affecting the City and region, with particular focus on PM10, and shall provide all required reporting to be included in SCAQMD's annual report.

Program 1 A

Participate, through CVAG and SCAQMD, in the monitoring of all air pollutants of regional concern on a continuous basis, and maintain records of trends in regional air quality.

Program 1 B

The City shall make available its Air Quality Management manual to encourage and facilitate self-regulation to the greatest extent practical. Coordinate with developers and encourage the phasing and staging of development to assure the lowest construction-related pollutant emission levels practical. The City shall impose mitigation measures, including the use of water trucks and temporary irrigation systems, as well as other measures, which will effectively limit fugitive dust emissions resulting from construction or other site disturbance.

Policy 2

The General Plan Land Use Element shall be developed and maintained to locate air pollution point sources, such as manufacturing facilities, at an appropriate distance from residential areas and other sensitive receptors.

Policy 3

The City shall promote the development of pedestrian-oriented retail centers, as well as community-wide multi-use trails and bike paths, dedicated bike lanes and other desirable alternatives to motor vehicle traffic.

Policy 4

The City shall promote the appropriate and cost-effective development and coordination of mass transit/shuttle service linking residential, shopping, resort and commercial centers of the City, and participate with CVAG, Southern California Association of Governments and public and private service providers to improve and optimize regional transportation services.

Policy 5

The City shall encourage the use of clean alternative energy sources for transportation, heating and cooling whenever practical.

Program 5 A

The City shall continue and expand the use of CNG and electric powered vehicles, as well as other alternative and/or renewable energy sources to the extent practical.

Program 5B
Wherever practical, the City shall use cost effective alternative energy sources for transportation.

Policy 6
All development proposals brought before the City will be reviewed for potential adverse effects on air quality and will be required to mitigate any significant impacts.

Program 6 A
The City shall conduct an initial study and, as appropriate, require detailed air quality analyses for all applications, which have the potential to adversely affect air quality.

Program 6 B
Projects with the potential to generate significant levels of air pollutants, such as manufacturing facilities and site development operations, shall be required by the City to incorporate air pollution mitigation in their design and operation, and to utilize the most advanced technological methods feasible.

Program 6 C
The City may monitor the effectiveness of transportation management programs of employers, which may include coordinated carpooling, off-peak shift times, employee flextime and other components. As future demand warrants, promote and support the development of a Park-and Ride program to decrease existing and future traffic levels within the community.

Other General Plan programs aimed at reducing air pollution include the following:

Open Space and Conservation Element: Program 7A
The City shall develop and adopt a comprehensive grading ordinance that protects hillsides and other open space and natural resource conservation areas sensitive in terms of topography and visibility, wildlife resources, water or mineral resources and air quality.

City of Desert Hot Springs Municipal Code

Section 5.50.150 Odor Control of the City's Municipal Code requires that facilities shall provide a sufficient odor absorbing ventilation and exhaust system so that odor generated inside the facility that is distinctive to its operation is not detected outside the facility, anywhere on adjacent property or public rights-of-way, on or about any exterior or interior common area walkways, hallways, breezeways, foyers, lobby areas, or any other areas available for common use by tenants or the visiting public, or within any other unit located within the same building as the facility.

MONITORED AIR QUALITY

The air quality at any site is dependent on the regional air quality and local pollutant sources. Regional air quality is determined by the release of pollutants throughout the air basin. Estimates of the existing emissions in the Basin provided in the Final 2016 Air Quality Management Plan prepared by SCAQMD (March 2017) indicate that collectively, mobile sources account for 60 percent of the VOC, 90 percent of the NOx emissions, 95 percent of the CO emissions and 34 percent of directly emitted PM2.5, with another 13 percent of PM2.5 from road dust.

The EPA and the ARB designate air basins where ambient air quality standards are exceeded as "nonattainment" areas. If standards are met, the area is designated as an "attainment" area. If there is inadequate or inconclusive data to make a definitive attainment designation, they are considered "unclassified". National nonattainment areas are further designated as marginal, moderate, serious, severe, or extreme as a function of deviation from standards. Each standard has a different definition, or 'form' of what constitutes attainment, based on specific air quality statistics. For example, the Federal 8-hour CO standard is not to be exceeded more than once per year; therefore, an area is in attainment of the CO standard if no

more than one 8-hour ambient air monitoring values exceeds the threshold per year. In contrast, the Federal annual PM2.5 standard is met if the three-year average of the annual average PM2.5 concentration is less than or equal to the standard. Attainment status is shown in Table 4.

The local air quality can be evaluated by reviewing relevant air pollution concentrations near the project area. For evaluation purposes, the SCAQMD has divided the District into 36 Source Receptor Areas (SRAs), operating monitoring stations in most of the areas. These SRAs are designated to provide a general representation of the local meteorological, terrain, and air quality conditions within the particular geographical area. The project is within Source Receptor Area 30, Coachella Valley. SCAQMD operates two air monitoring stations in SRA 30, one in Indio, California, approximately 23.23 miles southeast of the project site and the other in Palm Springs, California, approximately 5.58 miles southwest of the project site. The Palm Springs monitoring station was used to collect monitoring data.

Table 5 summarizes 2016 through 2018 published monitoring data, which is the most recent 3-year period available. The data shows that during the past few years, the project area has exceeded the ozone and Particulate Matter (PM10) standards. However, it should be noted that due to the air monitoring station distance from the project site, recorded air pollution levels at the air monitoring station reflect with varying degrees of accuracy, local air quality conditions at the project site.

Ozone

During the 2016 to 2018 monitoring period, the State 1-hour concentration standard for ozone was exceeded between six and 18 days each year at the Palm Springs Station. The State 8-hour ozone standard has been exceeded between 48 and 63 days each year over the past three years at the Palm Springs Station. The Federal 8-hour ozone standard was exceeded between 46 and 57 days each year over the past three years at the Palm Springs Station.

Ozone is a secondary pollutant as it is not directly emitted. Ozone is the result of chemical reactions between other pollutants, most importantly hydrocarbons and NO_2, which occur only in the presence of bright sunlight. Pollutants emitted from upwind cities react during transport downwind to produce the oxidant concentrations experienced in the area. Many areas of the SCAQMD contribute to the ozone levels experienced at the monitoring station, with the more significant areas being those directly upwind.

Carbon Monoxide

CO is another important pollutant that is due mainly to motor vehicles. The Palms Springs Station did not record an exceedance of the state or federal 8-hour CO standard for the last three years.

Nitrogen Dioxide

The Palm Springs Station did not record an exceedance of the State or Federal NO_2 standards for the last three years.

Particulate Matter

During the 2016 to 2018 monitoring period, the State 24-hour concentration standards for PM10 were exceeded for one day in 2017 and three days in 2016 over the past three years at the Palm Springs Station. The Federal 24-hour concentration standards were exceeded for only one day in 2016 and two days in 2018 over the past three years at the Palm Springs Station.

During the 2016 to 2018 monitoring period, the Federal 24-hour standards for PM2.5 were not exceeded at the Palm Springs Station.

According to the EPA, some people are much more sensitive than others to breathing fine particles (PM10 and PM2.5). People with influenza, chronic respiratory and cardiovascular diseases, and the elderly may suffer worsening illness and premature death due to breathing these fine particles. People with bronchitis can expect aggravated symptoms from breathing in fine particles. Children may experience decline in lung function due to breathing in PM10 and PM2.5. Other groups considered sensitive are smokers and people who cannot breathe well through their noses. Exercising athletes are also considered sensitive, because many breathe through their mouths during exercise.

Table 3
State and Federal Criteria Pollutant Standards

Air Pollutant	Concentration / Averaging Time		Most Relevant Effects
	California Standards	Federal Primary Standards	
Ozone (O_3)	0.09 ppm/1-hour 0.07 ppm/8-hour	0.070 ppm/8-hour	(a) Decline in pulmonary function and localized lung edema in humans and animals; (b) Risk to public health implied by alterations in pulmonary morphology and host defense in animals; (c) Increased mortality risk; (d) Risk to public health implied by altered connective tissue metabolism and altered pulmonary morphology in animals after long-term exposures and pulmonary function decrements in chronically exposed humans; (e) Vegetation damage; and (f) Property damage.
Carbon Monoxide (CO)	20.0 ppm/1-hour 9.0 ppm/8-hour	35.0 ppm/1-hour 9.0 ppm/8-hour	(a) Aggravation of angina pectoris and other aspects of coronary heart disease; (b) Decreased exercise tolerance in persons with peripheral vascular disease and lung disease; (c) Impairment of central nervous system functions; and (d) Possible increased risk to fetuses.
Nitrogen Dioxide (NO_2)	0.18 ppm/1-hour 0.03 ppm/annual	100 ppb/1-hour 0.053 ppm/annual	(a) Potential to aggravate chronic respiratory disease and respiratory symptoms in sensitive groups; (b) Risk to public health implied by pulmonary and extra-pulmonary biochemical and cellular changes and pulmonary structural changes; and (c) Contribution to atmospheric discoloration.
Sulfur Dioxide (SO_2)	0.25 ppm/1-hour 0.04 ppm/24-hour	75 ppb/1-hour 0.14 ppm/24-hour	(a) Bronchoconstriction accompanied by symptoms which may include wheezing, shortness of breath and chest tightness, during exercise or physical activity in persons with asthma.
Suspended Particulate Matter (PM_{10})	50 µg/m^3/24-hour 20 µg/m^3/annual	150 µg/m^3/24-hour	(a) Exacerbation of symptoms in sensitive patients with respiratory or cardiovascular disease; (b) Declines in pulmonary function growth in children; (c) Increased risk of premature death from heart or lung diseases in elderly.
Suspended Particulate Matter ($PM_{2.5}$)	12 µg/m^3 / annual	35 µg/m^3/24-hour 12 µg/m^3/annual	
Sulfates	25 µg/m^3/24-hour	No Federal Standards	(a) Decrease in ventilatory function; (b) Aggravation of asthmatic symptoms; (c) Aggravation of cardio-pulmonary disease; (d) Vegetation damage; (e) Degradation of visibility; (f) property damage.
Lead	1.5 µg/m^3/30-day	0.15 µg/m^3/3-month rolling	(a) Learning disabilities; (b) Impairment of blood formation and nerve conduction.
Visibility Reducing Particles	Extinction coefficient of 0.23 per kilometer-visibility of 10 miles or more due to particles when humidity is less than 70 percent.	No Federal Standards	Visibility impairment on days when relative humidity is less than 70 percent.

Notes:

(1) Source: http://www.arb.ca.gov/research/aaqs/aaqs2.pdf .

Table 4
Salton Sea Air Basin Attainment Status[1]

Pollutant	State Status	National Status
Ozone	Nonattainment	Nonattainment
Carbon monoxide	Attainment	Unclassified/Attainment
Nitrogen dioxide	Attainment	Unclassified/Attainment
Sulfur dioxide	Attainment	Unclassified/Attainment
PM10	Nonattainment	Nonattainment
PM2.5	Attainment	Unclassified/Attainment

Notes:

(1) Source : California Air Resources Board December 2018.

Table 5
Air Quality Monitoring Summary[1]

Pollutant (Standard)[2]		Year		
		2016	2017	2018
Ozone:	Maximum 1-Hour Concentration (ppm)	0.103	0.113	0.111
	Days > CAAQS (0.09 ppm)	6	18	11
	Maximum 8-Hour Concentration (ppm)	0.092	0.097	0.099
	Days > 2008 NAAQS (0.07 ppm)	46	57	56
	Days > CAAQS (0.070 ppm)	48	63	58
Carbon Monoxide:	Maximum 8-Hour Concentration (ppm)	*	*	*
	Days > CAAQS (9 ppm)	0	0	0
	Days > NAAQS (9 ppm)	0	0	0
Nitrogen Dioxide:	Maximum 1-Hour Concentration (ppm)	0.0426	0.0425	0.0426
	Days > CAAQS (0.18 ppm)	0	0	0
Inhalable Particulates (PM 10):	Maximum 24-Hour Concentration (µg/m^3)	447.2	105.6	422.3
	Days > NAAQS (150 µg/m3)	1	0	2
	Days > CAAQS (50 µg/m3)	3	1	0
	Annual Average (µg/m3)	23.1	22.1	22.9
Ultra-Fine Particulates (PM 2.5):	Maximum 24-Hour Concentration (µg/m3)	14.7	14.5	30.2
	Days > NAAQS (35 µg/m3)	0	0	0
	Annual Average (µg/m3)	5.4	6	6

Notes:

(1) Source: http://www.arb.ca.gov/adam/topfour/topfour1.php

Data from Palm Springs monitoring station unless otherwise noted.

(2) CAAQS = California Ambient Air Quality Standard; NAAQS = National Ambient Air Quality Standard; ppm = parts per million

* Means there was insufficient data available to determine value.

5. AIR QUALITY STANDARDS

REGIONAL AIR QUALITY

Many air quality impacts that derive from dispersed mobile sources, which are the dominate pollution generators in the basin, often occurs hours later and miles away after photochemical processes have converted primary exhaust pollutants into secondary contaminants such as ozone. The incremental regional air quality impact of an individual project is generally very small and difficult to measure. Therefore, the SCAQMD has developed significance thresholds based on the volume of pollution emitted rather than on actual ambient air quality because the direct air quality impact of a project is not quantifiable on a regional scale. The SCAQMD CEQA Handbook states that any project in the South Coast Air Basin with daily emissions that exceed any of the identified significance thresholds should be considered as having an individually and cumulatively significant air quality impact. For the purposes to this air quality impact analysis, a regional air quality impact would be considered significant if emissions exceed the SCAQMD significance thresholds identified in Table 6.

LOCAL AIR QUALITY

Project-related construction air emissions may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the South Coast Air Basin. In order to assess local air quality impacts the SCAQMD has developed Localized Significant Thresholds (LSTs) to assess the project-related air emissions in the project vicinity. The SCAQMD has also provided Final Localized Significant Threshold Methodology (LST Methodology), June 2003, which details the methodology to analyze local air emission impacts. The Localized Significant Threshold Methodology found that the primary emissions of concern are NO_2, CO, PM10, and PM2.5.

The significance thresholds for the local emissions of NO_2 and CO are determined by subtracting the highest background concentration from the last three years of these pollutants from Table 5 above, from the most restrictive ambient air quality standards for these pollutants that are outlined in the Localized Significant Thresholds. Table 6 shows the ambient air quality standards for NO_2, CO, and PM10 and PM2.5.

TOXIC AIR CONTAMINANTS

According to the SCAQMD CEQA Handbook, any project that has the potential to expose the public to toxic air contaminants in excess of the following thresholds would be considered to have a significant air quality impact:

- If the Maximum Incremental Cancer Risk is 10 in one million or greater; or
- Toxic air contaminants from the proposed project would result in a Hazard Index increase of 1 or greater.

In order to determine if the proposed project may have a significant impact related to hazardous air pollutants (HAP), the Health Risk Assessment Guidance for analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis, (Diesel Analysis), prepared by SCAQMD, August 2003, recommends that if the proposed project is anticipated to create hazardous air pollutants through stationary sources or regular operations of diesel trucks on the project site, then the proximity of the nearest receptors to the source of the hazardous air pollutants and the toxicity of the hazardous air pollutants should be analyzed through a comprehensive facility-wide health risk assessment (HRA).

The potential for health risks due to project-related diesel particulate matter (DPM) emissions is examined in Section 8 of this report.

ODOR IMPACTS

The SCAQMD CEQA Handbook states that an odor impact would occur if the proposed project creates an odor nuisance pursuant to SCAQMD Rule 402, which states:

A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.

The provisions of this rule shall not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals.

If the proposed project results in a violation of Rule 402 with regards to odor impacts, then the proposed project would create a significant odor impact.

GREENHOUSE GASES

The CEQA Guidelines recommend that a lead agency consider the following when assessing the significance of impacts from GHG emissions on the environment:

- The extent to which the project may increase (or reduce) GHG emissions as compared to the existing environmental setting;
- Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project;
- The extent to which the project complies with regulations or requirements adopted to implement an adopted statewide, regional, or local plan for the reduction or mitigation of GHG emissions[10].

Regional – South Coast Air Quality Management District

The project is within the South Coast Air Basin, which is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD).

SCAQMD Regulation XXVII, Climate Change

SCAQMD Regulation XXVII currently includes three rules:

- The purpose of Rule 2700 is to define terms and post global warming potentials.
- The purpose of Rule 2701, SoCal Climate Solutions Exchange, is to establish a voluntary program to encourage, quantify, and certify voluntary, high quality certified greenhouse gas emission reductions in the SCAQMD.
- Rule 2702, Greenhouse Gas Reduction Program, was adopted on February 6, 2009. The purpose of this rule is to create a Greenhouse Gas Reduction Program for greenhouse gas emission reductions in the SCAQMD. The SCAQMD will fund projects through contracts in response to requests for proposals or purchase reductions from other parties.

A variety of agencies have developed greenhouse gas emission thresholds and/or have made recommendations for how to identify a threshold. However, the thresholds for projects in the jurisdiction of the SCAQMD remain in flux. The California Air Pollution Control Officers Association explored a variety of

[10] The Governor's Office of Planning and Research recommendations include a requirement that such a plan must be adopted through a public review process and include specific requirements that reduce or mitigate the project's incremental contribution of GHG emissions. If there is substantial evidence that the possible effects of a particular project are still cumulatively considerable, notwithstanding compliance with the adopted regulations or requirements, an EIR must be prepared for the project.

threshold approaches, but did not recommend one approach (2008). The ARB recommended approaches for setting interim significance thresholds (California Air Resources Board 2008b), in which a draft industrial project threshold suggests that non-transportation related emissions under 7,000 MTCO2e per year would be less than significant; however, the ARB has not approved those thresholds and has not published anything since then. The SCAQMD is in the process of developing thresholds, as discussed below.

SCAQMD Threshold Development

On December 5, 2008, the SCAQMD Governing Board adopted an interim greenhouse gas significance threshold for stationary sources, rules, and plans where the SCAQMD is lead agency (SCAQMD permit threshold). The SCAQMD permit threshold consists of five tiers. However, the SCAQMD is not the lead agency for this project. Therefore, the five permit threshold tiers do not apply to the proposed project.

The SCAQMD is in the process of preparing recommended significance thresholds for greenhouse gases for local lead agency consideration ("SCAQMD draft local agency threshold"); however, the SCAQMD Board has not approved the thresholds as of the date of the Notice of Preparation. The current draft thresholds consist of the following tiered approach:

- Tier 1 consists of evaluating whether or not the project qualifies for any applicable exemption under CEQA.
- Tier 2 consists of determining whether the project is consistent with a greenhouse gas reduction plan. If a project is consistent with a qualifying local greenhouse gas reduction plan, it does not have significant greenhouse gas emissions.
- Tier 3 consists of screening values, which the lead agency can choose, but must be consistent with all projects within its jurisdiction. A project's construction emissions are averaged over 30 years and are added to a project's operational emissions. If a project's emissions are under one of the following screening thresholds, then the project is less than significant:
  - All land use types: 3,000 MTCO2e per year
  - Based on land use type: residential: 3,500 MTCO2e per year; commercial: 1,400 MTCO2e per year; or mixed use: 3,000 MTCO2e per year.
  - Based on land type: Industrial (where SCAQMD is the lead agency), 10,000 MTCO2e per year.
- Tier 4 has the following options:
  - Option 1: Reduce emissions from business as usual (BAU) by a certain percentage; this percentage is currently undefined.
  - Option 2: Early implementation of applicable AB 32 Scoping Plan measures.
  - Option 3, 2020 target for service populations (SP), which includes residents and employees: 4.8 MTCO2e/SP/year for projects and 6.6 MTCO2e/SP/year for plans;
  - Option 3, 2035 target: 3.0 MTCO2e/SP/year for projects and 4.1 MTCO2e/SP/year for plans.
- Tier 5 involves mitigation offsets to achieve target significance threshold.

The SCAQMD's draft threshold uses the Executive Order S-3-05 goal as the basis for the Tier 3 screening level. Achieving the Executive Order's objective would contribute to worldwide efforts to cap carbon dioxide concentrations at 450 ppm, thus stabilizing global climate. Specifically, the Tier 3 screening level for stationary sources is based on an emission capture rate of 90 percent for all new or modified projects. A 90 percent emission capture rate means that 90 percent of total emissions from all new or modified stationary source projects would be subject to a CEQA analysis, including a negative declaration, a mitigated negative declaration, or an environmental impact report, which includes analyzing feasible alternatives and imposing feasible mitigation measures. A GHG significance threshold based on a 90 percent emission capture rate may be more appropriate to address the long-term adverse impacts associated with global climate change because most projects will be required to implement GHG reduction measures. Further, a 90 percent emission capture rate sets the emission threshold low enough to capture a substantial fraction of future stationary source projects that will be constructed to accommodate future statewide population and economic growth, while setting the emission threshold high enough to exclude small projects that will in aggregate contribute a

relatively small fraction of the cumulative statewide GHG emissions. This assertion is based on the fact that staff estimates that these GHG emissions would account for slightly less than one percent of future 2050 statewide GHG emissions target (85 MMTCO2eq/year). In addition, these small projects may be subject to future applicable GHG control regulations that would further reduce their overall future contribution to the statewide GHG inventory. Finally, these small sources are already subject to BACT for criteria pollutants and are more likely to be single-permit facilities, so they are more likely to have few opportunities readily available to reduce GHG emissions from other parts of their facility.

Local – City of Desert Hot Springs

A Climate Action Plan (CAP) was adopted by the City of Desert Hot Springs in June of 2013. The City of Desert Hot Springs Climate Action Plan was set in place to guide the City in decisions that lead to the largest and most cost-effective emissions reductions. This plan sets forth goals to reduce emissions to achieve the targets of AB 32. The Climate Action Plan identifies that the community will have to reach a 36.4% reduction from Year 2010 baseline emissions or a 43.2% reduction from Year 2020 business-as-usual emissions by the year 2020 in order to obtain the AB 32 target emissions. These CAP targets are based on a predicted population growth rate of 83% between 2010 and 2020. However, according to the Census Bureau[11], the population of Desert Hot Springs was estimated to be 27,049 in April 2010 and 28,164 in July 2014; which shows a growth rate of 4.1%; therefore, the City of Desert Hot Springs would have to increase its population by 78.9% by 2020 to validate the reduction target percentage.

The City of Desert Hot Springs has identified 80 measures to be implemented over the course of an eight year period, beginning in 2013, in order to achieve their emission reduction goals. The City promotes energy efficiency and conservation in all areas of community development, including transportation, development planning, and public and private sector construction and operation, as well as in the full range of residential and non-residential projects. The City supports public and private efforts to develop and operate alternative systems of solar and electric production that take advantage of local renewable resources. In addition, the Climate Action Plan discusses the ability to develop and implement a solar ready ordinance that would require all new buildings and homes to be prepared for solar install. The Climate Action Plan also promotes the use of drought tolerate desert landscaping for parks, recreational facilities and golf courses.

Thresholds of Significance for this Project

To determine whether the project's GHG emissions are significant, this analysis uses the SCAQMD screening threshold of 10,000 MTCO2e per year for industrial uses.

[11] http://quickfacts.census.gov/qfd/states/06/0618996.html

Table 6
SCAQMD Air Quality Significance Thresholds for Coachella Valley[1,2]

Mass Daily Thresholds		
Pollutant	Construction (lbs/day)	Operation (lbs/day)
NOx	100	100
VOC	75	75
PM10	150	150
PM2.5	55	55
SOx	150	150
CO	550	550
Lead	3	3

Toxic Air Contaminants, Odor and GHG Thresholds	
TACs	Maximum Incremental Cancer Risk ≥ 10 in 1 million Cancer Burden > 0.5 excess cancer cases (in areas ≥ 1 in 1 million) Chronic & Acute Hazard Index > 1.0 (project increment)
Odor	Project creates an odor nuisance pursuant to SCAQMD Rule 402
GHG	10,000 MT/yr CO2e for industrial projects

Ambient Air Quality Standards	
Pollutant	SCAQMD Standards
NO2 -1-hour average	0.18 ppm (338 µg/m^3)
PM10 -24-hour average Construction Operations	 10.4 µg/m^3 2.5 ug/m^3
PM2.5 -24-hour average Construction Operations	 10.4 µg/m^3 2.5 µg/m^3
SO2 1-hour average 24-hour average	 0.25 ppm 0.04 ppm
CO 1-hour average 8-hour average	 20 ppm (23,000 µg/m^3) 9 ppm (10,000 µg/m^3)
Lead 30-day average Rolling 3-month average Quarterly average	 1.5 µg/m^3 0.15 µg/m^3 1.5 µg/m^3

Notes:

(1) Source: http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf

(2) Construction thresholds apply to both the South Coast Air Basin and Coachella Valley. For Coachella Valley, the mass daily thresholds for operation are the same as the construction thresholds

6. SHORT-TERM CONSTRUCTION IMPACTS

Construction activities associated with the proposed project would have the potential to generate air emissions, toxic air contaminant emissions, and odor impacts. Assumptions for the duration, for the construction of the proposed project were obtained from the project applicant.

- Phase 1 construction activities are anticipated to include:
  - Grading of approximately 39.27 acres;
  - Construction of 360,000 square feet of industrial park uses (cultivation activity), 68,060 square feet of light industrial uses, and approximately 10.45 acres of basins/landscaping/power reclamation facility site;
  - Paving of approximately 50 percent of the Phase 1 site (~19 acres) for parking lots and on-site roadways; and
  - Application of architectural coatings.

- Phase 2 construction activities are anticipated to include:
  - Grading of approximately 29.56 acres;
  - Construction of 280,000 square feet of industrial park uses (cultivation activity), 148,060 square feet of light industrial uses, and approximately 4.95 acres of basins/landscaping;
  - Paving of approximately 50 percent of the Phase 2 site (~14.78 acres) for parking lots and on-site roadways; and
  - Application of architectural coatings.

- Phase 3 construction activities are anticipated to include:
  - Grading of approximately 15.98 acres;
  - Construction of 140,000 square feet of industrial park uses (cultivation activity), 74,030 square feet of light industrial uses, and approximately 3.08 acres of landscaping;
  - Paving of approximately 50 percent of the Phase 3 site (~7.99 acres) for parking lots and on-site roadways; and
  - Application of architectural coatings.

- Phase 4 construction activities are anticipated to include:
  - Grading of approximately 19.69 acres;
  - Construction of 140,000 square feet of industrial park uses (cultivation activity), 74,030 square feet of light industrial uses, and approximately 4.93 acres of basins/landscaping;
  - Paving of approximately 50 percent of the Phase 4 site (~9.85 acres) for parking lots and on-site roadways; and
  - Application of architectural coatings.

Off-site improvements are to include a disturbance area of approximately 450,000 square feet for roadway improvements on 15th Avenue from Atlantic Avenue to Little Morongo, Atlantic Avenue from 16th Avenue to Dillon Road, and 16th Avenue from Atlantic Avenue to the western project boundary.

The proposed project is anticipated to start construction of Phase 1 no sooner than July 2019 and being completed by mid-December 2021. Phase 2 is anticipated to start construction no sooner than October 2021 and being completed by mid-November 2023. Phase 3 is anticipated to start construction no sooner than October 2023 and being completed by the beginning of October 2025. Phase 4 is anticipated to start

construction no sooner than October 2025 and being completed by the beginning of October 2027. Phase 1 is expected to be operational in 2021, Phase 2 in 2023, Phase 3 in 2025, and Phase 4 in 2027.

CONSTRUCTION-RELATED REGIONAL IMPACTS

The construction-related regional air quality impacts have been analyzed for both criteria pollutants and GHGs.

Construction-Related Criteria Pollutants Analysis

The following provides a discussion of the methodology used to calculate regional construction air emissions and an analysis of the proposed project's short-term construction emissions for the criteria pollutants.

Methodology

Typical emission rates from construction activities were obtained from CalEEMod Version 2016.3.2. CalEEMod is a computer model published by the SCAQMD for estimating air pollutant emissions. The CalEEMod program uses the EMFAC2014 computer program to calculate the emission rates specific for the eastern portion of Riverside County for construction-related employee vehicle trips and the OFFROAD2011 computer program to calculate emission rates for heavy truck operations. EMFAC2014 and OFFROAD2011 are computer programs generated by CARB that calculates composite emission rates for vehicles. Emission rates are reported by the program in grams per trip and grams per mile or grams per running hour. Using CalEEMod, the peak daily air pollutant emissions during each phase was calculated and presented below. These emissions represent the highest level of emissions for each of the construction phases in terms of air pollutant emissions. The construction emissions printouts from CalEEMod are provided in Appendix B.

SCAQMD's Rule 403 and 403.1

The Project will be required to comply with existing SCAQMD rules for the reduction of fugitive dust emissions. SCAQMD Rules 403 and 403.1 establish these procedures. Compliance with these rules is achieved through application of standard best management practices in construction and operation activities, such as application of water or chemical stabilizers to disturbed soils, managing haul road dust by application of water, covering haul vehicles, restricting vehicle speeds on unpaved roads to 15 mph, sweeping loose dirt from paved site access roadways, cessation of construction activity when winds exceed 25 mph and establishing a permanent and stabilizing ground cover on finished sites.

In addition, any operator applying for a grading permit, or a building permit for an activity with a disturbed surface area of more than 5,000 square feet, shall not initiate any earth-moving operations unless a Fugitive Dust Control Plan has been prepared pursuant to the provisions of the Coachella Valley Fugitive Dust Control Handbook and approved by the City. It is anticipated that this project will obtain and prepare the required Fugitive Dust Control Plan.

SCAQMD's Rule 403 and 403.1 minimum requirements require that the application of the best available dust control measures are used for all grading operations and include the application of water or other soil stabilizers in sufficient quantity to prevent the generation of visible dust plumes. Compliance with Rules 403 and 403.1 would *require the use of water trucks during all phases where earth moving operations would occur.*

Per SCAQMD Rule 1113 as amended on June 3, 2011, the architectural coatings that would be applied after January 1, 2014 will be limited to an average of 50 grams per liter or less. Paints applied to buildings during project construction will be limited to 30 grams per liter VOC content.

The phases of the construction activities which have been analyzed below for each phase are: (1) grading, (2) building construction, (3) paving, and (4) application of architectural coatings for Phases 1 through 4. See CalEEMod Output in Appendix B for details.

Project Impacts

The construction-related criteria pollutant emissions for Phases 1 through 4 are shown below in Tables 7, 8, 9, and 10. Tables 7 through 10 show that, with the incorporation of mitigation limiting architectural coating for buildings to 30 grams per liter VOC (please see Mitigation Measure 1 in Section 10 of this report), none of the project's emissions will exceed regional thresholds. In addition, Table 11 shows that the overlapping phases of construction would also not exceed regional thresholds. Therefore, with incorporation of mitigation, a less than significant regional air quality impact would occur from construction of the proposed project.

CONSTRUCTION-RELATED LOCAL IMPACTS

Construction-related air emissions may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the South Coast Air Basin. The proposed project has been analyzed for the potential local air quality impacts created from: construction-related fugitive dust and diesel emissions; from toxic air contaminants; and from construction-related odor impacts.

Local Air Quality Impacts from Construction

The SCAQMD has published a "Fact Sheet for Applying CalEEMod to Localized Significance Thresholds" (South Coast Air Quality Management District 2011b). CalEEMod calculates construction emissions based on the number of equipment hours and the maximum daily disturbance activity possible for each piece of equipment. In order to compare CalEEMod reported emissions against the localized significance threshold lookup tables, the CEQA document should contain in its project design features or its mitigation measures the following parameters:

(1) The off-road equipment list (including type of equipment, horsepower, and hours of operation) assumed for the day of construction activity with maximum emissions.
(2) The maximum number of acres disturbed on the peak day.
(3) Any emission control devices added onto off-road equipment.
(4) Specific dust suppression techniques used on the day of construction activity with maximum emissions.

The CalEEMod output in Appendix B show the equipment used for this analysis.

As shown in Table 12, the maximum number of acres disturbed in a day would be four acres during grading. The local air quality emissions from construction were analyzed using the SCAQMD's Mass Rate Localized Significant Threshold Look-up Tables and the methodology described in Localized Significance Threshold Methodology prepared by SCAQMD (revised July 2008). The Look-up Tables were developed by the SCAQMD in order to readily determine if the daily emissions of CO, NOx, PM10, and PM2.5 from the proposed project could result in a significant impact to the local air quality. The emission thresholds were based on the Coachella Valley source receptor area (SRA) 30 and a disturbance of two acres per day[12], to be conservative. According to LST Methodology, any receptor located closer than 25 meters (82 feet) shall be based on the 25 meter thresholds. The nearest sensitive receptors are the existing residential uses located approximately 270 feet (~82 meters) to the southeast of the site; therefore, to be conservative, the SCAQMD Look-up Tables for 50 meters was used. Table 13 shows the on-site emissions from the CalEEMod model for the different construction phases for Phases 1 through 4 and the LST emissions thresholds.

[12] As shown in Table 12, the project will disturb up to 4 acres per day; however, to be conservative (and because the SCAQMD localized thresholds are provided for 1, 2, and 5 acres of disturbance only) the more-stringent 2-acre thresholds were used.

The data provided in Table 13 shows that with the incorporation of mitigation measure 1, which limits architectural coatings applied to buildings to 30 grams per liter VOC and paint striping to 100 g/L VOC, none of the analyzed criteria pollutants would exceed the calculated local emissions thresholds at the nearest sensitive receptors. Therefore, with incorporation of mitigation, a less than significant local air quality impact would occur from construction of the proposed project.

Construction-Related Toxic Air Contaminant Impacts

The greatest potential for toxic air contaminant emissions would be related to diesel particulate emissions associated with heavy equipment operations during construction of the proposed project. According to SCAQMD methodology, health effects from carcinogenic air toxics are usually described in terms of "individual cancer risk". "Individual Cancer Risk" is the likelihood that a person exposed to concentrations of toxic air contaminants over a 30 year lifetime will contract cancer, based on the use of standard risk-assessment methodology. Given the relatively limited number of heavy-duty construction equipment and the short-term construction schedule, the proposed project would not result in a long-term (i.e., 30 years) substantial source of toxic air contaminant emissions and corresponding individual cancer risk. Furthermore, construction-based particulate matter (PM) emissions (including diesel exhaust emissions) do not exceed any local or regional thresholds. Therefore, no significant short-term toxic air contaminant impacts would occur during construction of the proposed project.

Construction-Related Odor Impacts

Potential sources that may emit odors during construction activities include the application of materials such as asphalt pavement. The objectionable odors that may be produced during the construction process are of short-term in nature and the odor emissions are expected cease upon the drying or hardening of the odor producing materials. Due to the short-term nature and limited amounts of odor producing materials being utilized, no significant impact related to odors would occur during construction of the proposed project. Diesel exhaust and VOCs would be emitted during construction of the project, which are objectionable to some; however, emissions would disperse rapidly from the project site and therefore should not reach an objectionable level at the nearest sensitive receptors.

Table 7
Construction-Related Regional Pollutant Emissions - Phase 1 [1]

Activity		Pollutant Emissions (pounds/day)					
		ROG	NOx	CO	SO_2	PM10*	PM2.5*
Grading	On-Site[2]	4.74	54.52	33.38	0.06	5.77	3.59
	Off-Site[3]	0.09	0.05	0.69	0.00	0.17	0.05
	Subtotal	4.83	54.57	34.07	0.06	5.93	3.64
Building Construction	On-Site[2]	2.93	26.60	22.39	0.03	1.67	1.57
	Off-Site[3]	4.10	31.16	30.20	0.12	7.65	2.22
	Subtotal	7.03	57.76	52.58	0.16	9.33	3.79
Paving	On-Site[2]	2.16	12.92	14.65	0.02	0.68	0.62
	Off-Site[3]	0.06	0.03	0.43	0.00	0.13	0.03
	Subtotal	2.22	12.95	15.08	0.02	0.80	0.66
Architectural Coating[4]	On-Site[2]	28.35	1.53	1.82	0.00	0.09	0.09
	Off-Site[3]	0.56	0.31	4.12	0.01	1.21	0.33
	Subtotal	28.91	1.84	5.94	0.01	1.31	0.42
Total for overlapping phases[5]		38.16	72.55	73.60	0.20	11.44	4.87
SCAQMD Thresholds		75	100	550	150	150	55
Exceeds Thresholds?		No	No	No	No	No	No

Off-Site Improvements							
Activity		Pollutant Emissions (pounds/day)					
		VOC	NOx	CO	SO_2	PM10*	PM2.5*
Grading	On-Site[2]	3.18	36.59	19.75	0.04	4.97	2.87
	Off-Site[3]	0.09	0.05	0.69	0.00	0.17	0.05
	Total	3.27	36.64	20.44	0.04	5.14	2.91
Paving	On-Site[2]	3.05	15.24	14.66	0.02	0.82	0.76
	Off-Site[3]	0.07	0.04	0.52	0.00	0.13	0.03
	Total	3.11	15.28	15.18	0.02	0.95	0.79
Architectural Coating	On-Site[2]	17.65	1.84	1.84	0.00	0.13	0.13
	Off-Site[3]	0.17	0.10	1.31	0.00	0.32	0.09
	Total	17.82	1.94	3.15	0.01	0.45	0.22
Total of overlapping phases[6]		22.65	91.22	54.50	0.10	11.08	6.55
SCAQMD Thresholds		75	100	550	150	150	55
Exceeds Thresholds		No	No	No	No	No	No

Notes:

(1) Source: CalEEMod Version 2016.3.2

(2) On-site emissions from equipment operated on-site that is not operated on public roads.
*On-site grading PM-10 and PM-2.5 emissions show mitigated values for fugitive dust for compliance with SCAQMD Rule 403.

(3) Off-site emissions from equipment operated on public roads.

(4) Emissions include mitigating architectural coatings to 30 g/L VOC for buildings and 100g/L for traffic markings.

(5) Construction, painting and paving phases may overlap.

(6) Construction of off-site improvements are anticipated to occur during grading and may overlap with the grading phase of the proposed project.

Table 8
Construction-Related Regional Pollutant Emissions - Phase 2 [1]

Activity		Pollutant Emissions (pounds/day)					
		ROG	NOx	CO	SO_2	PM10*	PM2.5*
Grading	On-Site[2]	4.19	46.40	30.88	0.06	5.37	3.23
	Off-Site[3]	0.08	0.04	0.57	0.00	0.17	0.05
	Subtotal	4.27	46.44	31.45	0.06	5.54	3.27
Building Construction	On-Site[2]	1.90	17.43	16.58	0.03	0.96	0.90
	Off-Site[3]	2.56	19.45	18.70	0.09	5.64	1.56
	Subtotal	4.46	36.88	35.28	0.12	6.60	2.46
Paving	On-Site[2]	2.14	10.19	14.58	0.02	0.51	0.47
	Off-Site[3]	0.05	0.03	0.36	0.00	0.13	0.03
	Subtotal	2.19	10.22	14.95	0.02	0.64	0.50
Architectural Coating[4]	On-Site[2]	41.03	1.30	1.81	0.00	0.07	0.07
	Off-Site[3]	0.37	0.19	2.63	0.01	0.91	0.24
	Subtotal	41.40	1.49	4.44	0.01	0.98	0.32
Total for overlapping phases[5]		48.05	48.59	54.67	0.15	8.22	3.28
SCAQMD Thresholds		75	100	550	150	150	55
Exceeds Thresholds?		No	No	No	No	No	No

Notes:

(1) Source: CalEEMod Version 2016.3.2

(2) On-site emissions from equipment operated on-site that is not operated on public roads.
*On-site grading PM-10 and PM-2.5 emissions show mitigated values for fugitive dust for compliance with SCAQMD Rule 403.

(3) Off-site emissions from equipment operated on public roads.

(4) Emissions include mitigating architectural coatings to 30 g/L VOC for buildings and 100g/L for traffic markings.

(5) Construction, painting and paving phases may overlap.

Table 9
Construction-Related Regional Pollutant Emissions - Phase 3 [1]

Activity		Pollutant Emissions (pounds/day)					
		ROG	NOx	CO	SO_2	PM10*	PM2.5*
Grading	On-Site[2]	3.32	34.52	28.05	0.06	4.81	2.71
	Off-Site[3]	0.07	0.04	0.49	0.00	0.17	0.05
	Subtotal	3.39	34.55	28.54	0.06	4.98	2.76
Building Construction	On-Site[2]	1.57	14.38	16.24	0.03	0.70	0.66
	Off-Site[3]	1.17	7.72	8.53	0.05	3.04	0.83
	Subtotal	2.74	22.11	24.77	0.07	3.74	1.49
Paving	On-Site[2]	1.66	8.58	14.58	0.02	0.42	0.39
	Off-Site[3]	0.05	0.02	0.32	0.00	0.13	0.03
	Subtotal	1.71	8.60	14.90	0.02	0.54	0.42
Architectural Coating[4]	On-Site[2]	26.22	1.15	1.81	0.00	0.05	0.05
	Off-Site[3]	0.18	0.08	1.23	0.00	0.49	0.13
	Subtotal	26.39	1.23	3.03	0.01	0.54	0.18
Total for overlapping phases[5]		30.85	31.94	42.70	0.10	4.82	2.09
SCAQMD Thresholds		75	100	550	150	150	55
Exceeds Thresholds?		No	No	No	No	No	No

Notes:

(1) Source: CalEEMod Version 2016.3.2

(2) On-site emissions from equipment operated on-site that is not operated on public roads.
*On-site grading PM-10 and PM-2.5 emissions show mitigated values for fugitive dust for compliance with SCAQMD Rule 403.

(3) Off-site emissions from equipment operated on public roads.

(4) Emissions include mitigating architectural coatings to 30 g/L VOC for buildings and 100g/L for traffic markings.

(5) Construction, painting and paving phases may overlap.

Table 10
Construction-Related Regional Pollutant Emissions - Phase 4 [1]

Activity		Pollutant Emissions (pounds/day)					
		ROG	NOx	CO	SO_2	PM10*	PM2.5*
Grading	On-Site[2]	2.90	27.94	26.33	0.06	4.51	2.44
	Off-Site[3]	0.06	0.03	0.42	0.00	0.17	0.05
	Subtotal	2.96	27.97	26.75	0.06	4.68	2.49
Building Construction	On-Site[2]	1.37	12.47	16.08	0.03	0.53	0.50
	Off-Site[3]	1.30	9.31	9.25	0.05	3.74	1.03
	Subtotal	2.66	21.78	25.33	0.08	4.27	1.52
Paving	On-Site[2]	1.81	8.58	14.58	0.02	0.42	0.39
	Off-Site[3]	0.04	0.02	0.28	0.00	0.13	0.03
	Subtotal	1.85	8.60	14.85	0.02	0.54	0.42
Architectural Coating[4]	On-Site[2]	26.87	1.15	1.81	0.00	0.05	0.05
	Off-Site[3]	0.20	0.09	1.33	0.00	0.61	0.16
	Subtotal	27.06	1.23	3.14	0.01	0.66	0.21
Total for overlapping phases[5]		31.57	31.61	43.32	0.11	5.47	2.15
SCAQMD Thresholds		75	100	550	150	150	55
Exceeds Thresholds?		No	No	No	No	No	No

Notes:

(1) Source: CalEEMod Version 2016.3.2

(2) On-site emissions from equipment operated on-site that is not operated on public roads.
*On-site grading PM-10 and PM-2.5 emissions show mitigated values for fugitive dust for compliance with SCAQMD Rule 403.

(3) Off-site emissions from equipment operated on public roads.

(4) Emissions include mitigating architectural coatings to 30 g/L VOC for buildings and 100g/L for traffic markings.

(5) Construction, painting and paving phases may overlap.

Table 11
Overlapping Construction-Related Regional Pollutant Emissions [1]

Activity		Pollutant Emissions (pounds/day)					
		ROG	NOx	CO	SO_2	PM10*	PM2.5*
Phase 1 Paving and Architectual Coating overlap with Phase 2 Grading	On-Site[2]	34.70	60.85	47.35	0.09	6.14	3.95
	Off-Site[3]	0.70	0.39	5.12	0.01	1.51	0.41
	Subtotal	35.40	61.23	52.47	0.10	7.65	4.35
Phase 1 Paving and Architectural Coating Overlap with Phase 2 Building Construction	On-Site[2]	32.41	31.88	33.05	0.05	1.73	1.62
	Off-Site[3]	3.18	19.79	4.91	0.10	6.98	1.92
	Subtotal	35.59	51.67	37.96	0.16	8.71	3.54
Phase 2 Architectural Coating Overlaps with Phase 3 Grading	On-Site[2]	44.35	35.82	29.86	0.07	4.88	2.78
	Off-Site[3]	0.44	0.22	3.11	0.01	1.08	0.29
	Subtotal	44.79	36.04	32.98	0.07	5.96	3.07
SCAQMD Thresholds		75	100	550	150	150	55
Exceeds Thresholds?		No	No	No	No	No	No

Notes:

(1) Source: CalEEMod Version 2016.3.2

(2) On-site emissions from equipment operated on-site that is not operated on public roads.
*On-site grading PM-10 and PM-2.5 emissions show mitigated values for fugitive dust for compliance with SCAQMD Rule 403.

(3) Off-site emissions from equipment operated on public roads.

(4) Emissions include mitigating architectural coatings to 30 g/L VOC for buildings and 100g/L for traffic markings.

(5) Construction, painting and paving phases may overlap.

Table 12
Maximum Number of Acres Disturbed Per Day[1]

Activity	Equipment	Number	Acres/8hr-day	Total Acres
Off-Site Improvements				
Grading	Graders	1	0.5	0.5
	Rubber Tired Dozers	1	0.5	0.5
	Scrapers	1	1	1
	Tractors/Loaders/Backhoes	1	0.5	0.5
Total per phase		-	-	2.5

Phase 1				
Grading	Graders	1	0.5	0.5
	Rubber Tired Dozers	1	0.5	0.5
	Scrapers	2	1	2
	Tractors/Loaders/Backhoes	2	0.5	1
Total per phase		-	-	4

Phase 2				
Grading	Graders	1	0.5	0.5
	Rubber Tired Dozers	1	0.5	0.5
	Scrapers	2	1	2
	Tractors/Loaders/Backhoes	2	0.5	1
Total per phase		-	-	4

Phase 3				
Grading	Graders	1	0.5	0.5
	Rubber Tired Dozers	1	0.5	0.5
	Scrapers	2	1	2
	Tractors/Loaders/Backhoes	2	0.5	1
Total per phase		-	-	4

Phase 4				
Grading	Graders	1	0.5	0.5
	Rubber Tired Dozers	1	0.5	0.5
	Scrapers	2	1	2
	Tractors/Loaders/Backhoes	2	0.5	1
Total per phase		-	-	4

Notes:

(1) Source: South Coast AQMD, Fact Sheet for Applying CalEEMod to Localized Significance Thresholds, 2011b.

Table 13
Local Construction Emissions at the Nearest Receptors [1]

Phase 1	On-Site Pollutant Emissions (pounds/day)			
Activity	NOx	CO	PM10	PM2.5
Grading	54.52	33.38	5.77	3.59
Building Construction	26.60	22.39	1.67	1.57
Paving	12.92	14.65	0.68	0.62
Architectural Coating	1.53	1.82	0.09	0.09
SCAQMD LST Threshold [2]	225	1,931	22	7
Exceeds Threshold?	No	No	No	No

Phase 2	On-Site Pollutant Emissions (pounds/day)			
Activity	NOx	CO	PM10	PM2.5
Grading	46.40	30.88	5.37	3.23
Building Construction	17.43	16.58	0.96	0.90
Paving	10.19	14.58	0.51	0.47
Architectural Coating	1.30	1.81	0.07	0.07
SCAQMD LST Threshold [2]	225	1,931	22	7
Exceeds Threshold?	No	No	No	No

Phase 3	On-Site Pollutant Emissions (pounds/day)			
Activity	NOx	CO	PM10	PM2.5
Grading	34.52	28.05	4.81	2.71
Building Construction	14.38	16.24	0.70	0.66
Paving	8.58	14.58	0.42	0.39
Architectural Coating	1.15	1.81	0.05	0.05
SCAQMD LST Threshold [2]	225	1,931	22	7
Exceeds Threshold?	No	No	No	No

Phase 4	On-Site Pollutant Emissions (pounds/day)			
Activity	NOx	CO	PM10	PM2.5
Grading	27.94	26.33	4.51	2.44
Building Construction	12.47	16.08	0.53	0.50
Paving	8.58	14.58	0.42	0.39
Architectural Coating	1.15	1.81	0.05	0.05
SCAQMD LST Threshold [2]	225	1,931	22	7
Exceeds Threshold?	No	No	No	No

Notes:

(1) Source: Calculated from CalEEMod and SCAQMD's Mass Rate Look-up Tables for 2 acres, to be conservative, at a distance of 50 m in Coachella Valley.

(2) The closest receptor, a single-family detached residential dwelling unit, is located approximately 270 feet (~82 meters) southeast of the site. Therefore, to be conservative, the 50 meter threshold has been used.

Note: The project will disturb up to a maximum of 4 acres a day during grading (see Table 12).

7. LONG-TERM AIR QUALITY OPERATIONAL IMPACTS

The on-going operation of the proposed project would result in a long-term increase in air quality emissions. This increase would be due to emissions from the project-generated vehicle trips and through operational emissions from the on-going use of the proposed project. The following section provides an analysis of potential long-term air quality impacts due to: regional air quality and local air quality impacts with the on-going operations of the proposed project.

OPERATIONS-RELATED REGIONAL AIR QUALITY IMPACTS

The potential operations-related air emissions have been analyzed below for the criteria pollutants and cumulative impacts.

Operations-Related Criteria Pollutants Analysis

The operations-related criteria air quality impacts created by the proposed project have been analyzed through the use of the CalEEMod model. The operating emissions were based on the Year 2021 for Phase 1, 2023 for Phase 2, 2025 for Phase 3, and 2027 for Phase 4. The operations daily emissions printouts from the CalEEMod model for each Phase analyzed are provided in Appendix B. The CalEEMod analyzes operational emissions from area sources, energy usage, and mobile sources, which are discussed below.

Mobile Sources

Mobile sources include emissions from the additional vehicle miles generated from the proposed project. The vehicle trips associated with the proposed project have been analyzed by inputting the project-generated vehicular trips from the Traffic Impact Analysis into the CalEEMod Model. The Traffic Impact Analysis found that the proposed project would create 3,146 vehicle trips per day (non-PCE) and 3,665 vehicle trips per day (PCE). Trip generation rates include 4.96 trips per thousand square foot per day for the general light industrial use and 1.49 trips per thousand square foot per day for the industrial park (cannabis activity) use. The program then applies the emission factors for each trip which is provided by the EMFAC2014 model to determine the vehicular traffic pollutant emissions.

The Traffic Impact Analysis found that the proposed general light industrial use would create a total of 1,420 automobile round trips, 145 2-axle truck round trips, 71 3-axle truck round trips, and 172 4+-axle truck round trips per day (non-PCE) and the industrial park (cultivation activity) use would create a total of 1,272 automobile round trips and 67 2-axle truck round trips (non-PCE).

Further, of the total trips, Phase 1 is anticipated to include 265 automobile round trips, 27 2-axle truck round trips, 13 3-axle truck round trips, and 32 4+-axle truck round trips per day (non-PCE) for the light industrial use and 500 automobile round trips and 26 2-axle truck round trips (non-PCE) for the industrial park (cultivation activity).

Phase 2 is anticipated to include 577 automobile round trips, 59 2-axle truck round trips, 29 3-axle truck round trips, and 70 4+-axle truck round trips per day (non-PCE) for the light industrial use and 389 automobile round trips and 20 2-axle truck round trips (non-PCE) for the industrial park (cultivation activity).

Phase 3 is anticipated to include 288 automobile round trips, 29 2-axle truck round trips, 14 3-axle truck round trips, and 35 4+-axle truck round trips per day (non-PCE) for the light industrial use and 194 automobile round trips and 10 2-axle truck round trips (non-PCE) for the industrial park (cultivation activity).

Phase 4 is anticipated to include 288 automobile round trips, 29 2-axle truck round trips, 14 3-axle truck round trips, and 35 4+-axle truck round trips per day (non-PCE) for the light industrial use and 194 automobile round trips and 10 2-axle truck round trips (non-PCE) for the industrial park (cultivation activity).

The light industrial use and industrial park (cultivation activity) use vehicle mixes were changed in CalEEMod for each phase to match the Traffic Impact Analysis (see Tables 14 through 21). The percentages in CalEEMod for the general light industrial use were changed to 78.6% autos (C-NW) and 21.4% trucks (C-W) and 95% autos (C-NW) and 5% trucks (C-W) for the industrial park (cannabis activity) use to match the overall vehicle percentages given in the Traffic Impact Analysis.

Area Sources

Area sources include emissions from consumer products, landscape equipment and architectural coatings. Landscape maintenance includes fuel combustion emissions from equipment such as lawn mowers, rototillers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers, as well as air compressors, generators, and pumps. As specifics were not known about the landscaping equipment fleet, CalEEMod defaults were used to estimate emissions from landscaping equipment. No changes were made to the default area source parameters.

Energy Usage

Energy usage includes emissions from the generation of electricity and natural gas used on-site. As discussed in the project description, project design features include: an on-site Power Reclamation Facility, a total of 86,365,986 kWh of energy per year from solar located on building rooftops and parking area shade structures, and the operation of chillers from heat generation. These alternative energy source design features are anticipated to generate more energy than what is needed by the proposed project. The reductions from the project design features are reported in the mitigated emissions in CalEEMod (see Appendix B). In addition, the proposed project is anticipated to need 24,816,806.4 kWh of annual power consumption for the cultivation uses and 14,691,285.6 kWh of annual power consumption for the general light industrial uses.[13] No other changes were made to the default energy usage parameters.

Power Reclamation Facility

The air quality and greenhouse gas related emissions from the Power Reclamation Facility were calculated by KDS Engineering and Dean Piles Consulting Services, LLC and supplied to Ganddini Group. Per Dean Piles Consulting, the Power Reclamation Facility is to precool the turbine intake air temperature and volume to eliminate the production of certain air quality pollutants and greenhouse gases in turn producing higher temperature and lower combustion air exhaust gases. This is a technique used with additional cost to the plant that reduces certain greenhouse gases generally associated with turbine natural gas combustion.

The calculations used intake air temperature and exhaust gas temperature as factors to determine the final quantities of each of the air quality pollutants and greenhouse gases. For example, for this particular project, the intake air temperature was reduced by 15 degrees Fahrenheit by evaporative pre-cooling of the intake stream there-by increasing the volume of intake air and creating a leaner mixture burning at lower temperatures. The modeling software inputs and outputs were used per the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE) standards for the regional location of the project for ambient design day temperature and relative humidity (RH) averages.

The gas turbine performance criteria used in the calculations were provided by Caterpillar for their Solar 10 and 20 MW Natural Gas Fired Turbine Generators. The natural gas fuel density and low-high heat values and composition are all factored into the determination of the power generation conversion of natural gas as a fuel source. The use of bio-fuel was also factored in as mandated by the CAPUE and all values were sourced from Southern California Gas Company. See Appendix E for more details on the Power Reclamation Facility.

[13] Piles Consulting Services, LLC (January 2019).

Project Impacts

The worst-case summer or winter criteria pollutant emissions created from the proposed project's long-term operations have been calculated and are shown below, for Phases 1 through 4, in Table 22. The results show that none of the SCAQMD regional thresholds would be exceeded. Therefore, a less than significant regional air quality impact would occur from operation of the proposed project.

Furthermore, Table 23 shows that when maximum daily construction emissions (from the highest-emitting construction phases) are added to the unmitigated operational emissions of completed phases, the total emissions still meet SCAQMD thresholds. Therefore, a less than significant regional air quality impact would occur from operation of the proposed project.

Cumulative Regional Air Quality Impacts

Cumulative projects include local development as well as general growth within the project area. However, as with most development, the greatest source of emissions is from mobile sources, which travel well out of the local area. Therefore, from an air quality standpoint, the cumulative analysis would extend beyond any local projects and when wind patterns are considered would cover an even larger area. Accordingly, the cumulative analysis for the project's air quality must be generic by nature.

The project area is out of attainment for ozone and in 2018 was out of attainment for PM10. Construction and operation of cumulative projects will further degrade the local air quality, as well as the air quality of the Salton Sea portion of the South Coast Air Basin. The greatest cumulative impact on the quality of regional air cell will be the incremental addition of pollutants mainly from increased traffic volumes from residential, commercial, and industrial development and the use of heavy equipment and trucks associated with the construction of these projects. Air quality will be temporarily degraded during construction activities that occur separately or simultaneously. However, in accordance with the SCAQMD methodology, projects that do not exceed the SCAQMD criteria or can be mitigated to less than criteria levels are not significant and do not add to the overall cumulative impact. With respect to long-term emissions, this project would create a less than significant cumulative impact.

OPERATIONS-RELATED LOCAL AIR QUALITY IMPACTS

Project-related air emissions may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the Salton Sea Air Basin. The proposed project has been analyzed for the potential local CO emission impacts from the project-generated vehicular trips and from the potential local air quality impacts from on-site operations. The following analysis analyzes the vehicular CO emissions, local impacts from on-site operations, and odor impacts.

Local CO Emission Impacts from Project-Generated Vehicular Trips

CO is the pollutant of major concern along roadways because the most notable source of CO is motor vehicles. For this reason, CO concentrations are usually indicative of the local air quality generated by a roadway network and are used as an indicator of potential local air quality impacts. Local air quality impacts can be assessed by comparing future without and with project CO levels to the State and Federal CO standards which were presented above in Section 5.

To determine if the proposed project could cause emission levels in excess of the CO standards discussed above in Section 5, a sensitivity analysis is typically conducted to determine the potential for CO "hot spots" at a number of intersections in the general project vicinity. Because of reduced speeds and vehicle queuing, "hot spots" potentially can occur at high traffic volume intersections with a Level of Service E or worse.

The analysis prepared for CO attainment in the South Coast Air Basin by the SCAQMD can be used to assist in evaluating the potential for CO exceedances in the South Coast Air Basin. CO attainment was thoroughly analyzed as part of the SCAQMD's 2003 Air Quality Management Plan (2003 AQMP) and the 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan). As discussed in the 1992 CO Plan, peak carbon monoxide concentrations in the South Coast Air Basin are due to unusual meteorological and topographical conditions, and not due to the impact of particular intersections. Considering the region's unique meteorological conditions and the increasingly stringent CO emissions standards, CO modeling was performed as part of 1992 CO Plan and subsequent plan updates and air quality management plans. In the 1992 CO Plan, a CO hot spot analysis was conducted for four busy intersections in Los Angeles at the peak morning and afternoon time periods. The intersections evaluated included: South Long Beach Boulevard and Imperial Highway (Lynwood); Wilshire Boulevard and Veteran Avenue (Westwood); Sunset Boulevard and Highland Avenue (Hollywood); and La Cienega Boulevard and Century Boulevard (Inglewood). These analyses did not predict a violation of CO standards. The busiest intersection evaluated was that at Wilshire Boulevard and Veteran Avenue, which has a daily traffic volume of approximately 100,000 vehicles per day. The Los Angeles County Metropolitan Transportation Authority evaluated the Level of Service in the vicinity of the Wilshire Boulevard/Veteran Avenue intersection and found it to be Level of Service E during the morning peak hour and Level of Service F during the afternoon peak hour.

The Traffic Impact Analysis showed that the project would generate a maximum of 3,146 trips per day (3,665 PCE trips). The intersection with the highest traffic volume is located at Palm Drive and Varner Road and has an Existing Plus Ambient Plus Project Plus Cumulative morning peak hour volume of 2,033 vehicles. The segment with the highest ADT volume for the Existing Plus Ambient Plus Project Plus Cumulative scenario is Palm Drive from 2 Bunch Trails to Camino Campanero, which has 51,000 average daily trips. The 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan) showed that an intersection which has a daily traffic volume of approximately 100,000 vehicles per day would not violate the CO standard. Therefore as the highest traffic volumes fall far short of 100,000 vehicles, no CO "hot spot" modeling was performed and no significant long-term air quality impact is anticipated to local air quality with the on-going use of the proposed project.

Local Air Quality Impacts from On-Site Operations

Project-related air emissions from on-site sources such as architectural coatings, landscaping equipment, on-site usage of natural gas appliances as well as the operation of vehicles on-site may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the Salton Sea portion of the South Coast Air Basin. The nearest sensitive receptors that may be impacted by the proposed project are the residential dwelling units located adjacent to the north and southeast of the project site.

The local air quality emissions from on-site operations were analyzed according to the methodology described in Localized Significance Threshold Methodology, prepared by SCAQMD, revised July 2008. The Look-up Tables were developed by the SCAQMD in order to readily determine if the daily emissions of CO, NOx, PM10, and PM2.5 from the proposed project could result in a significant impact to the local air quality. Per SCAQMD staff, the 5-acre Look-up Table, which is the largest site available, can be used as a conservative screening analysis for on-site operational emissions to determine whether more-detailed dispersion modeling would be necessary. The proposed project was analyzed based on the Coachella Valley source receptor area (SRA) 30 and used the thresholds for a five-acre project site.

Table 24 shows the on-site emissions from the CalEEMod model that includes natural gas usage, landscape maintenance equipment, and vehicles operating on-site and the calculated emissions thresholds. Per LST methodology, mobile emissions include only on-site sources which equate to approximately 5 percent of the

project-related new mobile sources.[14] The data provided in Table 24 shows that the on-going operations of the proposed project would not exceed SCAQMD local operational thresholds of significance discussed above in Section 5. Therefore, the on-going operations of the proposed project would create a less than significant operations-related impact to local air quality due to on-site emissions and no mitigation would be required.

Operations-Related Odor Impacts

The SCAQMD recommends that odor impacts be addressed in a qualitative manner. Such an analysis shall determine whether the project would result in excessive nuisance odors, as defined under the California Code of Regulations and Section 41700 of the California Health and Safety Code, and thus would constitute a public nuisance related to air quality.

Land uses typically considered associated with odors include wastewater treatment facilities, waste-disposal facilities, or agricultural operations. Potential sources of operational odors generated by the proposed project would include plant blossom odors and disposal of miscellaneous commercial refuse. As required by the City's Municipal Code Chapters 5.50 and 17.180, botanical cultivation activities are permitted only within enclosed facilities and its operations shall not be visible from the exterior of the facility. Further, botanical cultivation facilities shall provide the necessary odor control, ventilation, and filtration systems such that odors are not detectable outside of the cultivation facilities, or within the common use and office areas of the facilities. Consistent with City requirements, all Project-generated refuse would be stored in covered containers and removed at regular intervals in compliance with solid waste regulations, thereby precluding substantial generation of odors due to temporary holding of refuse on-site. Moreover, SCAQMD Rule 402 acts to prevent occurrences of odor nuisances. Therefore, with adherence to regulation, potential operational-source odor impacts are considered to be less than significant.

[14] The project site is approximately 0.74 miles in length at its longest point; therefore the on-site mobile source emissions represent approximately 1/6th of the shortest CalEEMod default distance of 4.2 miles. Therefore, to be conservative, 1/5th the distance (dividing the mobile source emissions by 5) was used to represent the portion of the overall mobile source emissions that would occur on-site.

Table 14
CalEEMod Revised Vehicle Mix Parameters for Warehouse Use (Phase 1)

CalEEMod Vehicle Type	Vehicle Mix from Traffic Analysis	CalEEMod Default Mix[1]		CalEEMod Revised Mix[2]	
		Ratio	Number of Vehicles	Ratio	Number of Vehicles
Light Auto	Automobile	0.542	183	0.480	162
Light Truck < 3750 lbs	Automobile	0.038	13	0.033	11
Light Truck 3751-5750 lbs	Automobile	0.185	63	0.164	55
Med Truck 5751-8500 lbs	Automobile	0.119	40	0.105	35
Lite-Heavy Truck 8501-10,000 lbs	2-Axle Truck	0.016	5	0.061	21
Lite-Heavy Truck 10,001-14,000 lbs	2-Axle Truck	0.005	2	0.019	7
Med-Heavy Truck 14,001-33,000 lbs	3-Axle Truck	0.017	6	0.039	13
Heavy-Heavy Truck 33,001-60,000 lbs	4+-Axle Truck	0.069	23	0.095	32
Other Bus	--	0.001	0	0.000	0
Urban Bus	--	0.001	0	0.000	0
Motorcycle	Automobile	0.005	2	0.004	1
School Bus	--	0.001	0	0.000	0
Motor Home	--	0.001	0	0.000	0
Total		1.0	338	1.0	338

Notes:

(1) Source: CalEEMod Version 2016.3.2 default values for Opening year of 2021.

(2) Revised per the vehicle mix provided in the Traffic Impact Analysis of 78.6% Autos, 8% 2-Axle Trucks, 3.9% 3-Axle Trucks and 9.5% 4+ Axle Trucks for the general light industrial use.

Table 15
CalEEMod Revised Vehicle Mix Parameters for Cultivation Use (Phase 1)

CalEEMod Vehicle Type	Vehicle Mix from Traffic Analysis	CalEEMod Default Mix[1]		CalEEMod Revised Mix[2]	
		Ratio	Number of Vehicles	Ratio	Number of Vehicles
Light Auto	Automobile	0.542	285	0.580	305
Light Truck < 3750 lbs	Automobile	0.038	20	0.040	21
Light Truck 3751-5750 lbs	Automobile	0.185	97	0.198	104
Med Truck 5751-8500 lbs	Automobile	0.119	62	0.127	67
Lite-Heavy Truck 8501-10,000 lbs	2-Axle Truck	0.016	9	0.038	20
Lite-Heavy Truck 10,001-14,000 lbs	2-Axle Truck	0.005	3	0.012	6
Med-Heavy Truck 14,001-33,000 lbs	3-Axle Truck	0.017	9	0.000	0
Heavy-Heavy Truck 33,001-60,000 lbs	4+-Axle Truck	0.069	36	0.000	0
Other Bus	--	0.001	1	0.000	0
Urban Bus	--	0.001	1	0.000	0
Motorcycle	Automobile	0.005	2	0.005	3
School Bus	--	0.001	0	0.000	0
Motor Home	--	0.001	1	0.000	0
Total		1.0	526	1.0	526

Notes:

(1) Source: CalEEMod Version 2016.3.2 default values for Opening year of 2021.

(2) Revised per the vehicle mix provided in the Traffic Impact Analysis of 95% Autos & 5% 2-Axle Trucks for the industrial park (cultivation use).

Table 16
CalEEMod Revised Vehicle Mix Parameters for Warehouse Use (Phase 2)

CalEEMod Vehicle Type	Vehicle Mix from Traffic Analysis	CalEEMod Default Mix[1]		CalEEMod Revised Mix[2]	
		Ratio	Number of Vehicles	Ratio	Number of Vehicles
Light Auto	Automobile	0.549	403	0.485	356
Light Truck < 3750 lbs	Automobile	0.036	27	0.032	24
Light Truck 3751-5750 lbs	Automobile	0.187	137	0.165	121
Med Truck 5751-8500 lbs	Automobile	0.113	83	0.100	73
Lite-Heavy Truck 8501-10,000 lbs	2-Axle Truck	0.014	10	0.060	44
Lite-Heavy Truck 10,001-14,000 lbs	2-Axle Truck	0.005	4	0.020	15
Med-Heavy Truck 14,001-33,000 lbs	3-Axle Truck	0.002	1	0.039	29
Heavy-Heavy Truck 33,001-60,000 lbs	4+-Axle Truck	0.070	51	0.095	70
Other Bus	--	0.001	1	0.000	0
Urban Bus	--	0.001	1	0.000	0
Motorcycle	Automobile	0.005	3	0.004	3
School Bus	--	0.001	1	0.000	0
Motor Home	--	0.001	1	0.000	0
Total		1.0	734	1.0	734

Notes:

(1) Source: CalEEMod Version 2016.3.2 default values for Opening year of 2023.

(2) Revised per the vehicle mix provided in the Traffic Impact Analysis of 78.6% Autos, 8% 2-Axle Trucks, 3.9% 3-Axle Trucks and 9.5% 4+ Axle Trucks for the general light industrial use.

Table 17
CalEEMod Revised Vehicle Mix Parameters for Cultivation Use (Phase 2)

CalEEMod Vehicle Type	Vehicle Mix from Traffic Analysis	CalEEMod Default Mix[1]		CalEEMod Revised Mix[2]	
		Ratio	Number of Vehicles	Ratio	Number of Vehicles
Light Auto	Automobile	0.549	224	0.586	240
Light Truck < 3750 lbs	Automobile	0.036	15	0.039	16
Light Truck 3751-5750 lbs	Automobile	0.187	76	0.200	82
Med Truck 5751-8500 lbs	Automobile	0.113	46	0.120	49
Lite-Heavy Truck 8501-10,000 lbs	2-Axle Truck	0.014	6	0.037	15
Lite-Heavy Truck 10,001-14,000 lbs	2-Axle Truck	0.005	2	0.013	5
Med-Heavy Truck 14,001-33,000 lbs	3-Axle Truck	0.002	1	0.000	0
Heavy-Heavy Truck 33,001-60,000 lbs	4+-Axle Truck	0.070	29	0.000	0
Other Bus	--	0.001	1	0.000	0
Urban Bus	--	0.001	0	0.000	0
Motorcycle	Automobile	0.005	2	0.005	2
School Bus	--	0.001	0	0.000	0
Motor Home	--	0.001	0	0.000	0
Total		1.0	409	1.0	409

Notes:

(1) Source: CalEEMod Version 2016.3.2 default values for Opening year of 2023.

(2) Revised per the vehicle mix provided in the Traffic Impact Analysis of 95% Autos & 5% 2-Axle Trucks for the industrial park (cultivation use).

Table 18
CalEEMod Revised Vehicle Mix Parameters for Warehouse Use (Phase 3)

CalEEMod Vehicle Type	Vehicle Mix from Traffic Analysis	CalEEMod Default Mix[1]		CalEEMod Revised Mix[2]	
		Ratio	Number of Vehicles	Ratio	Number of Vehicles
Light Auto	Automobile	0.554	203	0.489	179
Light Truck < 3750 lbs	Automobile	0.035	13	0.031	11
Light Truck 3751-5750 lbs	Automobile	0.189	69	0.166	61
Med Truck 5751-8500 lbs	Automobile	0.108	40	0.095	35
Lite-Heavy Truck 8501-10,000 lbs	2-Axle Truck	0.013	5	0.059	22
Lite-Heavy Truck 10,001-14,000 lbs	2-Axle Truck	0.005	2	0.021	8
Med-Heavy Truck 14,001-33,000 lbs	3-Axle Truck	0.017	6	0.039	14
Heavy-Heavy Truck 33,001-60,000 lbs	4+-Axle Truck	0.070	26	0.095	35
Other Bus	--	0.001	1	0.000	0
Urban Bus	--	0.001	0	0.000	0
Motorcycle	Automobile	0.004	2	0.004	1
School Bus	--	0.009	3	0.000	0
Motor Home	--	0.001	0	0.000	0
Total		1.0	367	1.0	367

Notes:

(1) Source: CalEEMod Version 2016.3.2 default values for Opening year of 2025.

(2) Revised per the vehicle mix provided in the Traffic Impact Analysis of 78.6% Autos, 8% 2-Axle Trucks, 3.9% 3-Axle Trucks and 9.5% 4+ Axle Trucks for the general light industrial use.

Table 19
CalEEMod Revised Vehicle Mix Parameters for Cultivation Use (Phase 3)

CalEEMod Vehicle Type	Vehicle Mix from Traffic Analysis	CalEEMod Default Mix[1]		CalEEMod Revised Mix[2]	
		Ratio	Number of Vehicles	Ratio	Number of Vehicles
Light Auto	Automobile	0.554	113	0.591	121
Light Truck < 3750 lbs	Automobile	0.035	7	0.038	8
Light Truck 3751-5750 lbs	Automobile	0.189	38	0.201	41
Med Truck 5751-8500 lbs	Automobile	0.108	22	0.115	24
Lite-Heavy Truck 8501-10,000 lbs	2-Axle Truck	0.013	3	0.037	8
Lite-Heavy Truck 10,001-14,000 lbs	2-Axle Truck	0.005	1	0.013	3
Med-Heavy Truck 14,001-33,000 lbs	3-Axle Truck	0.017	4	0.000	0
Heavy-Heavy Truck 33,001-60,000 lbs	4+-Axle Truck	0.070	14	0.000	0
Other Bus	--	0.001	0	0.000	0
Urban Bus	--	0.001	0	0.000	0
Motorcycle	Automobile	0.004	1	0.005	1
School Bus	--	0.009	2	0.000	0
Motor Home	--	0.001	0	0.000	0
Total		1.0	204	1.0	204

Notes:

(1) Source: CalEEMod Version 2016.3.2 default values for Opening year of 2025.

(2) Revised per the vehicle mix provided in the Traffic Impact Analysis of 95% Autos & 5% 2-Axle Trucks for the industrial park (cultivation use).

Table 20
CalEEMod Revised Vehicle Mix Parameters for Warehouse Use (Phase 4)

CalEEMod Vehicle Type	Vehicle Mix from Traffic Analysis	CalEEMod Default Mix[1]		CalEEMod Revised Mix[2]	
		Ratio	Number of Vehicles	Ratio	Number of Vehicles
Light Auto	Automobile	0.558	205	0.492	180
Light Truck < 3750 lbs	Automobile	0.035	13	0.031	11
Light Truck 3751-5750 lbs	Automobile	0.190	70	0.167	61
Med Truck 5751-8500 lbs	Automobile	0.105	39	0.093	34
Lite-Heavy Truck 8501-10,000 lbs	2-Axle Truck	0.012	4	0.058	21
Lite-Heavy Truck 10,001-14,000 lbs	2-Axle Truck	0.004	2	0.022	8
Med-Heavy Truck 14,001-33,000 lbs	3-Axle Truck	0.017	6	0.039	14
Heavy-Heavy Truck 33,001-60,000 lbs	4+-Axle Truck	0.070	26	0.095	35
Other Bus	--	0.001	1	0.000	0
Urban Bus	--	0.001	0	0.000	0
Motorcycle	Automobile	0.004	2	0.004	1
School Bus	--	0.001	0	0.000	0
Motor Home	--	0.001	0	0.000	0
Total		1.0	367	1.0	367

Notes:

(1) Source: CalEEMod Version 2016.3.2 default values for Opening year of 2027.

(2) Revised per the vehicle mix provided in the Traffic Impact Analysis of 78.6% Autos, 8% 2-Axle Trucks, 3.9% 3-Axle Trucks and 9.5% 4+ Axle Trucks for the general light industrial use.

Table 21
CalEEMod Revised Vehicle Mix Parameters for Cultivation Use (Phase 4)

CalEEMod Vehicle Type	Vehicle Mix from Traffic Analysis	CalEEMod Default Mix[1]		CalEEMod Revised Mix[2]	
		Ratio	Number of Vehicles	Ratio	Number of Vehicles
Light Auto	Automobile	0.558	114	0.594	121
Light Truck < 3750 lbs	Automobile	0.035	7	0.037	8
Light Truck 3751-5750 lbs	Automobile	0.190	39	0.202	41
Med Truck 5751-8500 lbs	Automobile	0.105	21	0.112	23
Lite-Heavy Truck 8501-10,000 lbs	2-Axle Truck	0.012	2	0.036	7
Lite-Heavy Truck 10,001-14,000 lbs	2-Axle Truck	0.004	1	0.014	3
Med-Heavy Truck 14,001-33,000 lbs	3-Axle Truck	0.017	4	0.000	0
Heavy-Heavy Truck 33,001-60,000 lbs	4+-Axle Truck	0.070	14	0.000	0
Other Bus	--	0.001	0	0.000	0
Urban Bus	--	0.001	0	0.000	0
Motorcycle	Automobile	0.004	1	0.005	1
School Bus	--	0.001	0	0.000	0
Motor Home	--	0.001	0	0.000	0
Total		1.0	204	1.0	204

Notes:

(1) Source: CalEEMod Version 2016.3.2 default values for Opening year of 2027.

(2) Revised per the vehicle mix provided in the Traffic Impact Analysis of 95% Autos & 5% 2-Axle Trucks for the industrial park (cultivation use).

Table 22
Regional Operational Pollutant Emissions[1]

Phase 1	Pollutant Emissions (pounds/day)					
Activity	ROG	NOx	CO	SO2	PM10	PM2.5
Area Sources[2]	12.58	0.00	0.05	0.00	0.00	0.00
Energy Usage[3]	0.10	0.93	0.78	0.01	0.07	0.07
Mobile Sources[4]	1.48	7.38	13.37	0.05	3.69	1.01
Power Reclamation Facility Emissions[5]	-	13.10	-	-	-	-
Total Emissions	**14.17**	**21.41**	**14.20**	**0.05**	**3.76**	**1.08**
SCAQMD Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Exceeds Threshold?	No	No	No	No	No	No

Phase 2	Pollutant Emissions (pounds/day)					
Activity	ROG	NOx	CO	SO2	PM10	PM2.5
Area Sources[2]	12.35	0.00	0.05	0.00	0.00	0.00
Energy Usage[3]	0.17	1.55	1.30	0.01	0.12	0.12
Mobile Sources[4]	1.72	10.57	15.92	0.07	5.28	1.45
Power Reclamation Facility Emissions[5]	-	13.10	-	-	-	-
Total Emissions	**14.24**	**25.22**	**17.27**	**0.08**	**5.40**	**1.57**
SCAQMD Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Exceeds Threshold?	No	No	No	No	No	No

Phase 3	Pollutant Emissions (pounds/day)					
Activity	ROG	NOx	CO	SO2	PM10	PM2.5
Area Sources[2]	6.20	0.00	0.02	0.00	0.00	0.00
Energy Usage[3]	0.09	0.78	0.65	0.00	0.06	0.06
Mobile Sources[4]	0.77	4.97	7.04	0.03	2.64	0.72
Power Reclamation Facility Emissions[5]	-	6.52	-	-	-	-
Total Emissions	**7.06**	**12.26**	**7.71**	**0.04**	**2.70**	**0.78**
SCAQMD Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Exceeds Threshold?	No	No	No	No	No	No

Phase 4	Pollutant Emissions (pounds/day)					
Activity	ROG	NOx	CO	SO2	PM10	PM2.5
Area Sources[2]	6.29	0.00	0.02	0.00	0.00	0.00
Energy Usage[3]	0.09	0.78	0.65	0.00	0.06	0.06
Mobile Sources[4]	0.70	4.68	6.30	0.03	2.64	0.72
Power Reclamation Facility Emissions[5]	-	6.52	-	-	-	-
Total Emissions	**7.08**	**11.97**	**6.97**	**0.04**	**2.70**	**0.78**
SCAQMD Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Exceeds Threshold?	No	No	No	No	No	No

Total Emissions Phases 1 through 4 & Power Reclamation Facility	**42.55**	**70.86**	**46.16**	**0.21**	**14.56**	**4.21**
SCAQMD Thresholds	**75**	**100**	**550**	**150**	**150**	**55**
Exceeds Threshold?	No	No	No	No	No	No

Notes:

(1) Source: CalEEMod Version 2016.3.2

(2) Area sources consist of emissions from consumer products, architectural coatings, and landscaping equipment.

(3) Energy usage consists of emissions from generation of electricity and on-site natural gas usage.

(4) Mobile sources consist of emissions from vehicles and road dust.

(5) Power plant emissions were calculated and supplied, per the applicant, from Piles Consulting Services, LLC (January 2019). See Appendix E for more information.

Table 23
Overlapping Regional Construction and Operational Emissions [1]

Activity	Pollutant Emissions (pounds/day)					
	VOC	NOx	CO	SO_2	PM10	PM2.5
Total for Phase 1 plus construction Phase 2	62.22	70.00	68.87	0.21	11.98	4.36
Total for Phases 1 and 2 plus construction Phase 3	59.25	81.18	74.18	0.24	14.14	5.41
Total for Phase 1, 2, & 3, plus construction Phase 4	72.13	90.51	82.51	0.29	17.33	5.14
SCAQMD Operational Thresholds	75	100	550	150	150	55
Exceeds Threshold?	No	No	No	No	No	No

Notes:

(1) Overlapping emissions calculated from the highest emissions levels during construction and the active operational phase(s).

Table 24
Local Operational Emissions at the Nearest Receptors[1]

Phase 1	On-Site Pollutant Emissions (pounds/day)			
On-Site Emission Source	NOx	CO	PM10	PM2.5
Area Sources[2]	0.00	0.05	0.00	0.00
Energy Usage[3]	0.93	0.78	0.07	0.07
Vehicle Emissions[4]	1.48	2.67	0.74	0.20
Power Reclamation Facility Emissions[5]	13.10	-	-	-
Total Emissions	**15.50**	**3.50**	**0.81**	**0.27**
SCAQMD Thresholds [6]	**340**	**3,237**	**11**	**3**
Exceeds Threshold?	No	No	No	No

Phase 2	On-Site Pollutant Emissions (pounds/day)			
On-Site Emission Source	NOx	CO	PM10	PM2.5
Area Sources[2]	0.00	0.05	0.00	0.00
Energy Usage[3]	1.55	1.30	0.12	0.12
Vehicle Emissions[4]	2.11	3.18	1.06	0.29
Power Reclamation Facility Emissions[5]	13.10	-	-	-
Total Emissions	**16.77**	**4.53**	**1.17**	**0.41**
SCAQMD Thresholds [6]	**340**	**3,237**	**11**	**3**
Exceeds Threshold?	No	No	No	No

Phase 3	On-Site Pollutant Emissions (pounds/day)			
On-Site Emission Source	NOx	CO	PM10	PM2.5
Area Sources[2]	0.00	0.02	0.00	0.00
Energy Usage[3]	0.78	0.65	0.06	0.06
Vehicle Emissions[4]	0.99	1.41	0.53	0.14
Power Reclamation Facility Emissions[5]	6.52	-	-	-
Total Emissions	**8.29**	**2.08**	**0.59**	**0.20**
SCAQMD Thresholds [6]	**340**	**3,237**	**11**	**3**
Exceeds Threshold?	No	No	No	No

Phase 4	On-Site Pollutant Emissions (pounds/day)			
On-Site Emission Source	NOx	CO	PM10	PM2.5
Area Sources[2]	0.00	0.02	0.00	0.00
Energy Usage[3]	0.78	0.65	0.06	0.06
Vehicle Emissions[4]	0.94	1.26	0.53	0.14
Power Reclamation Facility Emissions[5]	6.52	-	-	-
Total Emissions	**8.23**	**1.93**	**0.59**	**0.20**
SCAQMD Thresholds [6]	**340**	**3,237**	**11**	**3**
Exceeds Threshold?	No	No	No	No

Notes:

(1) Source: Calculated from CalEEMod and SCAQMD's Mass Rate Look-up Tables for 5 acres.

(2) Area sources consist of emissions from consumer products, architectural coatings, and landscaping equipment.

(3) Energy usage consists of emissions from on-site natural gas usage.

(4) On-site vehicular emissions based on 1/5 of the gross vehicular emissions and road dust.

(5) Power plant emissions were calculated and supplied, per the applicant, from Piles Consulting Services, LLC (January 2019). See Appendix E for more information.

(6) The closest receptor, a single-family detached residential dwelling unit, is located approximately 270 feet (~82 meters) southeast of the site. Therefore, to be conservative, the 50 meter threshold has been used.

8. DIESEL EMISSIONS HEALTH RISK ASSESSMENT

The on-going operation of the proposed project would generate toxic air contaminant emissions from diesel truck emissions created by the on-going operations of the proposed project. According to SCAQMD methodology, health effects from carcinogenic air toxics are usually described in terms of individual cancer risk. "Individual Cancer Risk" is the likelihood that a person exposed to concentrations of toxic air contaminants over a 30-year lifetime will contract cancer, based on the use of revised Office of Environmental Health Hazard Assessment (OEHHA) risk-assessment methodology.[15]

A health risk assessment requires the completion and interaction of four general steps:

1. Quantify project-generated TAC emissions.
2. Identify nearby ground-level receptor locations that may be affected by the emissions (including any special sensitive receptor locations such as residences, schools, hospitals, convalescent homes, and daycare centers).
3. Perform air dispersion modeling analyses to estimate ambient pollutant concentrations at each receptor location using project TAC emissions and representative meteorological data to define the transport and dispersion of those emissions in the atmosphere.
4. Characterize and compare the calculated health risks with the applicable health risk significance thresholds.

EMISSIONS

Emission Inventory Development

Important issues that affect the dispersion modeling include the following: (1) Model Selection, (2) Source Treatment, (3) Meteorological Data, and (4) Receptor Grid. Each of these issues is addressed below.

Emission Source Estimates – DPM from Motor Vehicles

DPM emissions from the various sources were calculated using information derived from the project description, and mobile source emission factors from the CARB EMFAC2017 emissions factor model. Truck mix information was obtained from the Traffic Impact Analysis.

Four pieces of information are required to generate the mobile source emissions from the proposed project:

- Number of vehicle trips for each component of the proposed project;
- Types of vehicles that access the proposed project (passenger car vs. heavy-duty truck and gasoline vs. diesel);
- The allocation of the vehicle trips to each building that comprises the proposed project; and
- Estimate of the vehicle emission factors for estimating exhaust and idling emissions.

Estimate of Vehicle Trips and Vehicle Types

The Traffic Impact Analysis showed the project is expected to generate approximately 3,146 (non-passenger car equivalents) vehicle trips per day. Of those vehicle trips, for the general light industrial use 1,420 are

[15] In February 2015, the Office of Environmental Health Hazard Assessment updated their "Air Toxics Hot Spots Program, Risk Assessments Guidelines, Guidance Manual for Preparation of Health Risk Assessments; however, the updated OEHHA guidance states in the page footers "do not cite or quote." SCAQMD staff have incorporated the updates into their methodology for SCAQMD's Rules 1401, 1401.1, 1402, and 212, and have updated their HRA Guidance for permitting; however they are still in the process of updating the guidance for CEQA analyses (via working group sessions); however, to be conservative, the new OEHHA guidance was used to assess HRA impacts in this analysis. Per SCAQMD staff (personal communication with Dr. Jillian Wong 6-19-2015 and 12-22-15), updated SCAQMD HRA guidance will be forthcoming.

automobile round trips, 145 are 2-axle truck round trips, 71 are 3-axle truck round trips, and 172 are 4+-axle truck round trips per day (non-passenger car equivalents) and for the industrial park (cultivation activity) use 1,272 are automobile round trips and 67 are 2-axle truck round trips (non-PCE).

Per the Traffic Impact Analysis, the vehicle mix for the general light industrial use was based on the City of Fontana Truck Trip Generation Study, with a mix of 8 percent 2-axle trucks, 3.9 percent 3-axle trucks and 9.5 percent 4-axle trucks and the vehicle mix for the industrial park (cultivation activity) use was based on an employee-to-square footage ratio consistent with the operational assumptions of similar cannabis projects, with a mix of 5 percent 2-axle trucks.

Estimate of Emission Factors

The DPM emission factors for the various vehicle types were derived from the CARB EMFAC2017 mobile source emission model. The emissions factors were derived for Riverside County for years 2021 to 2051, 14-year average factors (for child exposure during years 2-16) reflect emissions during the first 14 years of operation (2024 to 2037), the second 14 years of exposure (years 2038-2051) were also used for assessment of exposure during years 16 to 30, 2-year factors (for infant exposure) reflect years 2022 and 2023, and third trimester exposure used opening year (2021) emissions factors.

Emissions factors were estimated to establish the emissions generated while the vehicles travel off-site, along travel links from the entrance to the proposed buildings, and while idling at the proposed buildings. All vehicles were assumed to travel on-site at a speed of 10 miles per hour. Off-site, the speeds along the roads were anticipated to average 35 miles per hour. Delivery vehicles were assumed to idle for a maximum of 15 minutes per vehicle per day (5 minutes per location: at the facility entrance, at the loading bay, and at the facility exit, in keeping with the CARB Air Toxic Control Measure (ATCM), which regulates truck idling time (CARB 2005). The four different sets of emissions factors used in this assessment are detailed in Table 25. It should be noted that the DPM emissions on both the gram per mile and gram per idle hour bases decline beyond 2021 for all vehicle classes and in particular the heavy-heavy-duty truck class (the 4+ axle "big rig" trucks). This is due to the CARB emissions' requirements on heavy-duty trucks that call for either the replacement of older trucks with cleaner trucks or the installation of diesel particulate matter filters on the truck fleet.

Emission Source Characterization

Each of the emission source types described above also requires geometrical and emission release specifications for use in the air dispersion model. Table 26 provides a summary of the assumptions used to configure the various emission sources. The following definitions are used to characterize the emission source geometrical configurations referred to in Table 26:

- Point source: A single, identifiable, local source of emissions; it is approximated in the AERMOD air dispersion model as a mathematical point in the modeling region with a location and emission characteristics such as height of release, temperature, etc., for example, a truck idle location where emissions are sourced from the truck's exhaust stack while the vehicle is stationary.

- Line source: A series of volume sources along a path, for example, vehicular traffic volumes along a roadway.

Figure 3 provides the location of the project buildings, emission source locations, and the locations of the nearest sensitive receptors (single-family detached residential dwelling units located at the southeast corner of Atlantic Avenue and 16th Avenue, along Dillon Road, near the intersection of Dillon Road and Indian Canyon Road, at the intersection of Little Morongo Road and 14th Avenue/2 Bunch Palms Trail, and along 2 Bunch Palms Trail). Receptors are shown as orange triangles labeled 1 through 13. The direction of on and off-site truck travel was estimated based on the Traffic Impact Analysis, site plan, and/or traffic engineer.

RECEPTOR NETWORK

The assessment requires that a network of receptors be specified where the impacts can be computed at the various locations surrounding the project. Receptors were located at existing sensitive receptors surrounding the proposed project (as detailed above). In addition, the identified sensitive receptors locations were supplemented by the specification of a modeling grid that extended around the proposed project to identify other potential locations of impact. The locations of the receptors are shown as orange triangles on Figure 3.

DISPERSION MODELING

The next step in the assessment process utilizes the emissions inventory along with a mathematical air dispersion model and representative meteorological data to calculate impacts at the various receptor locations. The dispersion model used in this assessment is described below.

Model Selection

The assessment of air quality and health risk impacts from pollutant emissions from this project applied the USEPA AERMOD Model, which is the air dispersion model accepted by the SCAQMD for performing air quality impact analyses. AERMOD predicts pollutant concentrations from point, area, volume, line, and flare sources with variable emissions in terrain from flat to complex with the inclusion of building downwash effects from buildings on pollutant dispersion. It captures the essential atmospheric physical processes and provides reasonable estimates over a wide range of meteorological conditions and modeling scenarios.

General Model Assumptions

A summary of Emission Configurations is shown in Table 26. The basic options used in the dispersion modeling are summarized in Table 27.

As indicated in Table 27 the analysis takes into account the effects of building downwash on the dispersion of emissions from the various sources located on the project's property. Building downwash occurs when the aerodynamic turbulence, induced by nearby buildings, causes pollutants emitted from an elevated source to be mixed rapidly toward the ground (downwash), resulting in potentially higher ground-level concentrations than if the buildings were not present. The AERMOD dispersion model contains algorithms to account for building downwash effects. The required information includes the location of the emission source; the location of adjacent buildings; and the building geometry in terms of length, width, and height. For purposes of this analysis, the emission source and building locations were taken from the project site plan. The building geometries were estimated from Google Earth, assuming building heights of 30 feet.

Meteorological Data

Meteorological data from the Air District's Desert Hot Springs Airport monitoring site was selected for this modeling application. Five full years of sequential meteorological data was collected at the site from January 1, 2012 to December 31, 2016 by the SCAQMD. The SCAQMD processed the data for input to the model. The data was obtained at SCAQMD's http://www.aqmd.gov/home/air-quality/air-quality-data-studies/meteorological-data/data-for-aermod (see Figure 4).

ESTIMATION OF HEALTH RISKS

Health risks from diesel particulate matter are twofold. First, diesel particulate matter is a carcinogen according to the State of California. Second, long-term chronic exposure to diesel particulate matter can cause health effects to the respiratory system. Each of these health risks is discussed below.

Cancer Risks

According to the *Risk Assessment Guidelines: Guidance Manual for Preparation of Health Risk Assessments*, released by the Office of Environmental Health Hazard Assessment (OEHHA) in February 2015 and formally adopted in March 2015, the residential inhalation dose for cancer risk assessment should be calculated using the following formula:

[Dose-air (mg/(Kg-day)]*Cancer Potency*[1x10^{-6}] = Potential Cancer Risk

Where:
Cancer Potency Factor = 1.1
Dose-inh = (C¬air * DBR * A * EF * ED *ASF*FAH* 10-6) / AT

Where:

Cair [Concentration in air (µg/m3)] = (Calculated by AERMOD Model)

DBR [Daily breathing rate (L/kg body weight – day)] = 261 for adults, 572 for children, and 1,090 for infants, and 361 for 3rd trimester per SCAQMD Permit Application Package "N" Table 4.1D guidance. Per SCAQMD, the 95th percentile breathing rates have been utilized for the 3rd trimester through 2 year old age group (see Tables 28 and 29).[16]

A [Inhalation absorption factor] = 1

EF [Exposure frequency (days/year)] = 350

ED [Exposure duration (years)] = 14 for children (from 2-16 years), 14 for adults (from 16-30 years), 2 for infants, and 0.25 for 3rd Trimester

ASF [Age sensitivity factor) = 10 for 3rd trimester to 2 years of age, 3 for 2 to 16 years of age, and 1 for 16 to 30 years of age

FAH [Fraction of time spent at home] = 1 for 3rd trimester to 2 years of age, 1 for 2 to 16 years of age, and 0.73 for 16 to 30 years of age

10^6 [Micrograms to milligrams conversion]

AT [Average time period over which exposure is averaged in days] = 25,550

The model run results are shown in Appendix C. Figure 5 illustrates the cancer risk to the most affected age-group, infants 0-2 years.

Table 28 shows the cancer risk for the unborn child during the 3rd trimester, Table 29 shows the cancer risk to infants (0-2 years), Table 30 shows the cancer risk to children ages 2 to 16 years and Table 31 shows the cancer risk as that child becomes an adult (years 16-30). The highest infant cancer risk is at receptor 1; with a maximum risk of 2.17 in one million. The highest child cancer risk is also at receptor 1; with a maximum risk of 2.11 in one million. Therefore no children or infants are exposed to cancer risks in excess of 10 in a million.

The assessment of cancer-related health risk to sensitive receptors within the project vicinity is based on the following most-conservative scenario:

- an unborn child in its 3rd trimester is potentially exposed to DPM emissions (via exposure of the mother) during the opening year,
- that child is born opening year and then remains at home for the entire first two years of life
- from age 2 to 16, the child remains at home 100 percent of the time
- from age 16 to 30, the child continues to live at home, growing into an adult that spends 73 percent of its time at home and lives there until age 30.

[16] South Coast Air Quality Management District (SCAQMD) Risk Assessment Procedures for Rules 1401, 1401.1, and 212. September 1, 2017.

Based on the above, ultra-conservative assumptions, the 30.25-year, cumulative carcinogenic health risk (3rd trimester [-0.25 to 0 years] + infant [0-2 years] + child [2-16 years] + adult [16-30 years]) to an individual born during the opening year of the project, and located in the project vicinity for the entire 30-year duration, is a maximum of 4.62 in a million, as shown in Table 32.

Therefore, the on-going operations of the proposed project would result in a less than significant impact due to the cancer risk from diesel emissions created by the proposed project. As the residential cancer risk does not exceed 10 in a million, it is anticipated that any offsite worker risk (where the potential for exposure is only 8 hours instead of 24 hours per day) would also not exceed 10 in a million.

Non-Cancer Risks

The relationship for non-cancer health effects is given by the equation:

HIDPM = CDPM/RELDPM

Where,

HIDPM	=	Hazard Index; an expression of the potential for non-cancer health effects.
CDPM	=	Annual average diesel particulate matter concentration in µg/m3.
RELDPM	=	Reference Exposure Level (REL) for diesel particulate matter; the diesel particulate matter concentration at which no adverse health effects are anticipated.

The non-carcinogenic hazards to residential adult, 3rd trimester, child and infant receptors are also detailed in Tables 28 through 31 column (j). The RELDPM is 5 µg/m3. The Office of Environmental Health Hazard Assessment as protective for the respiratory system has established this concentration. Using the maximum DPM concentration for the opening year (2021), the resulting Hazard Index is

HIDPM = 0.0088/5 = 0.00176

The criterion for significance is a Hazard Index increase of 1.0 or greater. Therefore, the proposed project would have a less than significant impact due to the non-cancer risk from diesel emissions created by the proposed project.

Table 25
DPM Emissions Factors for the Proposed Project[1]

Vehicle Class	14-Year Average (First 14 years of Operation)		
	Idling (g/hr)	On-Site Travel (g/mi)	Off-Site Travel (g/mi)
Light Heavy Duty Truck 2	0.79348	0.03822	0.01657
Medium Heavy Duty Truck	0.01881	0.00501	0.00387
Heavy Heavy Duty Truck	0.01113	0.01049	0.00853

Vehicle Class	14-Year Average (Second 14 years of Operation)		
	Idling (g/hr)	On-Site Travel (g/mi)	Off-Site Travel (g/mi)
Light Heavy Duty Truck 2	0.79386	0.02939	0.01440
Medium Heavy Duty Truck	0.00786	0.00437	0.00368
Heavy Heavy Duty Truck	0.01017	0.00959	0.00810

Vehicle Class	2-Year Average (First 2 years of Operation)		
	Idling (g/hr)	On-Site Travel (g/mi)	Off-Site Travel (g/mi)
Light Heavy Duty Truck 2	0.78735	0.05065	0.01953
Medium Heavy Duty Truck	0.09549	0.03406	0.01910
Heavy Heavy Duty Truck	0.01380	0.02424	0.01325

Vehicle Class	1-Year Average (Opening Year)		
	Idling (g/hr)	On-Site Travel (g/mi)	Off-Site Travel (g/mi)
Light Heavy Duty Truck 2	0.78639	0.05383	0.02026
Medium Heavy Duty Truck	0.24358	0.17489	0.06839
Heavy Heavy Duty Truck	0.02224	0.07840	0.03670

Notes:

(1) Source: EMFAC2017.

Table 26
Summary of Emission Configurations

Emission Source Type	Geometric Configuration	Relevant Assumptions
Off-Site Diesel Truck Traffic	Line Sources	Stack release height: 12 feet
		Vehicle speed: 35 mph
		Length of the line source (15th Ave from eastern Project Driveway to Little Morongo, Little Morongo from 15th Ave to Dillon Rd, Dillon Rd from Little Morongo to Indian Canyon Dr, Indian Canyon Dr south of Dillon Rd, Dillon Road from from Little Morongo to Palm Dr, Little Morongo Rd from 15th Ave to 2 Bunch Palms Trail, Little Morongo Rd north 2 Bunch Palms Trail, and 2 Bunch Palms Trail from Little Morongo to Palm Drive.)
		Vehicle types: heavy-heavy-duty, medium-heavy-duty and light-heavy-duty diesel delivery trucks
		Emission factor: CARB EMFAC2017
On-Site Diesel Truck Traffic	Line Sources	Stack release height: 12 feet
		Vehicle speed: 10 mph
		Length of the line source (Street A, Street B/Street F, Street C, Street D, and Street E)
		Vehicle types: heavy-heavy-duty, medium-heavy-duty and light-heavy-duty diesel delivery trucks
		Emission factor: CARB EMFAC2017
On-Site Diesel Truck Idling	Point Source located at Project Buildings	Stack release height: 12 feet
		Stack release characteristics
		> Stack diameter: 0.1 meter (0.3 feet)
		> Stack velocity: 51.9 mps (170 feet/sec)
		> Stack temperature: 366 °k (200° F)
		Idle time: 15 minutes per truck per day
		Vehicle types: heavy-heavy-duty, medium-heavy-duty and light-heavy-duty diesel delivery trucks
		Emission factor: CARB EMFAC2017

Table 27
General Modeling Assumptions - AERMOD Model

Feature	Option Selected
Terrain processing	AERMAP - NED GEOTIFF 30 min
Emission source configuration	See Table 26
Regulatory dispersion options	Default
Land use	Urban
Coordinate system	UTM, Zone 11 north
Building downwash	Included in calculations
Receptor height	0 meters above ground (per SCAQMD methodology)
Meteorological data	SCAQMD Desert Hot Springs Airport Meteorological Data

Table 28
Carcinogenic Risks and Non-Carcinogenic 3rd Trimester Exposure Scenario (0.25-Year)

Receptor ID (a)	Maximum Concentration (ug/m3) (b)	Maximum Concentration (mg/m3) (c)	Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards CPF (mg/kg/day) (f)	Carcinogenic Hazards RISK (per million) (g)	Noncarcinogenic Hazards REL (ug/m3) (h)	Noncarcinogenic Hazards RfD (mg/kg/day) (i)	Noncarcinogenic Hazards Index (j)
1	0.0088	8.8E-06	1.00E+00	DPM	1.1E+00	0.12	5.0E+00	1.4E-03	0.0018
2	0.00656	6.6E-06	1.00E+00	DPM	1.1E+00	0.09	5.0E+00	1.4E-03	0.0013
3	0.00412	4.1E-06	1.00E+00	DPM	1.1E+00	0.06	5.0E+00	1.4E-03	0.0008
4	0.00318	3.2E-06	1.00E+00	DPM	1.1E+00	0.04	5.0E+00	1.4E-03	0.0006
5	0.00094	9.4E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0002
6	0.00491	4.9E-06	1.00E+00	DPM	1.1E+00	0.07	5.0E+00	1.4E-03	0.0010
7	0.0032	3.2E-06	1.00E+00	DPM	1.1E+00	0.04	5.0E+00	1.4E-03	0.0006
8	0.00681	6.8E-06	1.00E+00	DPM	1.1E+00	0.09	5.0E+00	1.4E-03	0.0014
9	0.00286	2.9E-06	1.00E+00	DPM	1.1E+00	0.04	5.0E+00	1.4E-03	0.0006
10	0.00489	4.9E-06	1.00E+00	DPM	1.1E+00	0.07	5.0E+00	1.4E-03	0.0010
11	0.0035	3.5E-06	1.00E+00	DPM	1.1E+00	0.05	5.0E+00	1.4E-03	0.0007
12	0.00191	1.9E-06	1.00E+00	DPM	1.1E+00	0.03	5.0E+00	1.4E-03	0.0004
13	0.00258	2.6E-06	1.00E+00	DPM	1.1E+00	0.04	5.0E+00	1.4E-03	0.0005

Notes:

Exposure factors used to calculate TAC intake

Exposure Frequency (days/year)	350
Exposure Duration (years)	0.25
Daily Breathing Rate	361
Age Sensitivity Factor	10
Fraction of Time At Home (FAH)	1
Averaging Time $_{(cancer)}$ (days)	25550
Averaging Time $_{(non\text{-}cancer)}$ (days)	91.25

E= 10^{X}, i.e. E-02 = 10^{-2}

Table 29
Carcinogenic Risks and Non-Carcinogenic Infant Exposure Scenario (2-Year)

Receptor ID (a)	Maximum Concentration (ug/m3) (b)	Maximum Concentration (mg/m3) (c)	Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards CPF (mg/kg/day) (f)	Carcinogenic Hazards RISK (per million) (g)	Noncarcinogenic Hazards REL (ug/m3) (h)	Noncarcinogenic Hazards RfD (mg/kg/day) (i)	Index (j)
1	0.0066	6.6E-06	1.00E+00	DPM	1.1E+00	2.17	5.0E+00	1.4E-03	0.0013
2	0.00493	4.9E-06	1.00E+00	DPM	1.1E+00	1.62	5.0E+00	1.4E-03	0.0010
3	0.00308	3.1E-06	1.00E+00	DPM	1.1E+00	1.01	5.0E+00	1.4E-03	0.0006
4	0.00236	2.4E-06	1.00E+00	DPM	1.1E+00	0.78	5.0E+00	1.4E-03	0.0005
5	0.00057	5.7E-07	1.00E+00	DPM	1.1E+00	0.19	5.0E+00	1.4E-03	0.0001
6	0.00249	2.5E-06	1.00E+00	DPM	1.1E+00	0.82	5.0E+00	1.4E-03	0.0005
7	0.00163	1.6E-06	1.00E+00	DPM	1.1E+00	0.54	5.0E+00	1.4E-03	0.0003
8	0.00344	3.4E-06	1.00E+00	DPM	1.1E+00	1.13	5.0E+00	1.4E-03	0.0007
9	0.00196	2.0E-06	1.00E+00	DPM	1.1E+00	0.64	5.0E+00	1.4E-03	0.0004
10	0.00259	2.6E-06	1.00E+00	DPM	1.1E+00	0.85	5.0E+00	1.4E-03	0.0005
11	0.00186	1.9E-06	1.00E+00	DPM	1.1E+00	0.61	5.0E+00	1.4E-03	0.0004
12	0.00101	1.0E-06	1.00E+00	DPM	1.1E+00	0.33	5.0E+00	1.4E-03	0.0002
13	0.00134	1.3E-06	1.00E+00	DPM	1.1E+00	0.44	5.0E+00	1.4E-03	0.0003

Notes:

Exposure factors used to calculate TAC intake

Exposure Frequency (days/year)	350
Exposure Duration (years)	2
Daily Breathing Rate	1090
Age Sensitivity Factor	10
Fraction of Time At Home (FAH)	1
Averaging Time $_{(cancer)}$ (days)	25550
Averaging Time $_{(non\text{-}cancer)}$ (days)	730

$E= 10^{X}$, i.e. E-02 = 10^{-2}

Table 30
Carcinogenic Risks and Non-Carcinogenic Child Exposure Scenario (14-Year)

Receptor ID (a)	Maximum Concentration (ug/m3) (b)	Maximum Concentration (mg/m3) (c)	Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards CPF (mg/kg/day) (f)	Carcinogenic Hazards RISK (per million) (g)	Noncarcinogenic Hazards REL (ug/m3) (h)	Noncarcinogenic Hazards RfD (mg/kg/day) (i)	Index (j)
1	0.00583	5.8E-06	1.00E+00	DPM	1.1E+00	2.11	5.0E+00	1.4E-03	0.0012
2	0.00436	4.4E-06	1.00E+00	DPM	1.1E+00	1.58	5.0E+00	1.4E-03	0.0009
3	0.00271	2.7E-06	1.00E+00	DPM	1.1E+00	0.98	5.0E+00	1.4E-03	0.0005
4	0.00207	2.1E-06	1.00E+00	DPM	1.1E+00	0.75	5.0E+00	1.4E-03	0.0004
5	0.00045	4.5E-07	1.00E+00	DPM	1.1E+00	0.16	5.0E+00	1.4E-03	0.0001
6	0.00171	1.7E-06	1.00E+00	DPM	1.1E+00	0.62	5.0E+00	1.4E-03	0.0003
7	0.00112	1.1E-06	1.00E+00	DPM	1.1E+00	0.41	5.0E+00	1.4E-03	0.0002
8	0.00235	2.4E-06	1.00E+00	DPM	1.1E+00	0.85	5.0E+00	1.4E-03	0.0005
9	0.00165	1.7E-06	1.00E+00	DPM	1.1E+00	0.60	5.0E+00	1.4E-03	0.0003
10	0.00184	1.8E-06	1.00E+00	DPM	1.1E+00	0.67	5.0E+00	1.4E-03	0.0004
11	0.00132	1.3E-06	1.00E+00	DPM	1.1E+00	0.48	5.0E+00	1.4E-03	0.0003
12	0.00071	7.1E-07	1.00E+00	DPM	1.1E+00	0.26	5.0E+00	1.4E-03	0.0001
13	0.00093	9.3E-07	1.00E+00	DPM	1.1E+00	0.34	5.0E+00	1.4E-03	0.0002

Notes:

Exposure factors used to calculate TAC intake

Exposure Frequency (days/year)	350
Exposure Duration (years)	14
Daily Breathing Rate	572.00
Age Sensitivity Factor	3
Fraction of Time At Home (FAH)	1
Averaging Time $_{(cancer)}$ (days)	25550
Averaging Time $_{(non\text{-}cancer)}$ (days)	5110

E= 10^{X}, i.e. E-02 = 10^{-2}

Table 31
Carcinogenic Risks and Non-Carcinogenic Hazards Adult Exposure Scenario (14-Year)

Receptor ID (a)	Maximum Concentration (ug/m3) (b)	Maximum Concentration (mg/m3) (c)	Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards CPF (mg/kg/day) (f)	Carcinogenic Hazards RISK (per million) (g)	Noncarcinogenic Hazards REL (ug/m3) (h)	Noncarcinogenic Hazards RfD (mg/kg/day) (i)	Noncarcinogenic Hazards Index (j)
1	0.00564	5.6E-06	1.00E+00	DPM	1.1E+00	0.23	5.0E+00	1.4E-03	0.0011
2	0.00422	4.2E-06	1.00E+00	DPM	1.1E+00	0.17	5.0E+00	1.4E-03	0.0008
3	0.00263	2.6E-06	1.00E+00	DPM	1.1E+00	0.11	5.0E+00	1.4E-03	0.0005
4	0.002	2.0E-06	1.00E+00	DPM	1.1E+00	0.08	5.0E+00	1.4E-03	0.0004
5	0.00042	4.2E-07	1.00E+00	DPM	1.1E+00	0.02	5.0E+00	1.4E-03	0.0001
6	0.00153	1.5E-06	1.00E+00	DPM	1.1E+00	0.06	5.0E+00	1.4E-03	0.0003
7	0.00101	1.0E-06	1.00E+00	DPM	1.1E+00	0.04	5.0E+00	1.4E-03	0.0002
8	0.00211	2.1E-06	1.00E+00	DPM	1.1E+00	0.08	5.0E+00	1.4E-03	0.0004
9	0.00158	1.6E-06	1.00E+00	DPM	1.1E+00	0.06	5.0E+00	1.4E-03	0.0003
10	0.00167	1.7E-06	1.00E+00	DPM	1.1E+00	0.07	5.0E+00	1.4E-03	0.0003
11	0.0012	1.2E-06	1.00E+00	DPM	1.1E+00	0.05	5.0E+00	1.4E-03	0.0002
12	0.00065	6.5E-07	1.00E+00	DPM	1.1E+00	0.03	5.0E+00	1.4E-03	0.0001
13	0.00084	8.4E-07	1.00E+00	DPM	1.1E+00	0.03	5.0E+00	1.4E-03	0.0002

Notes:

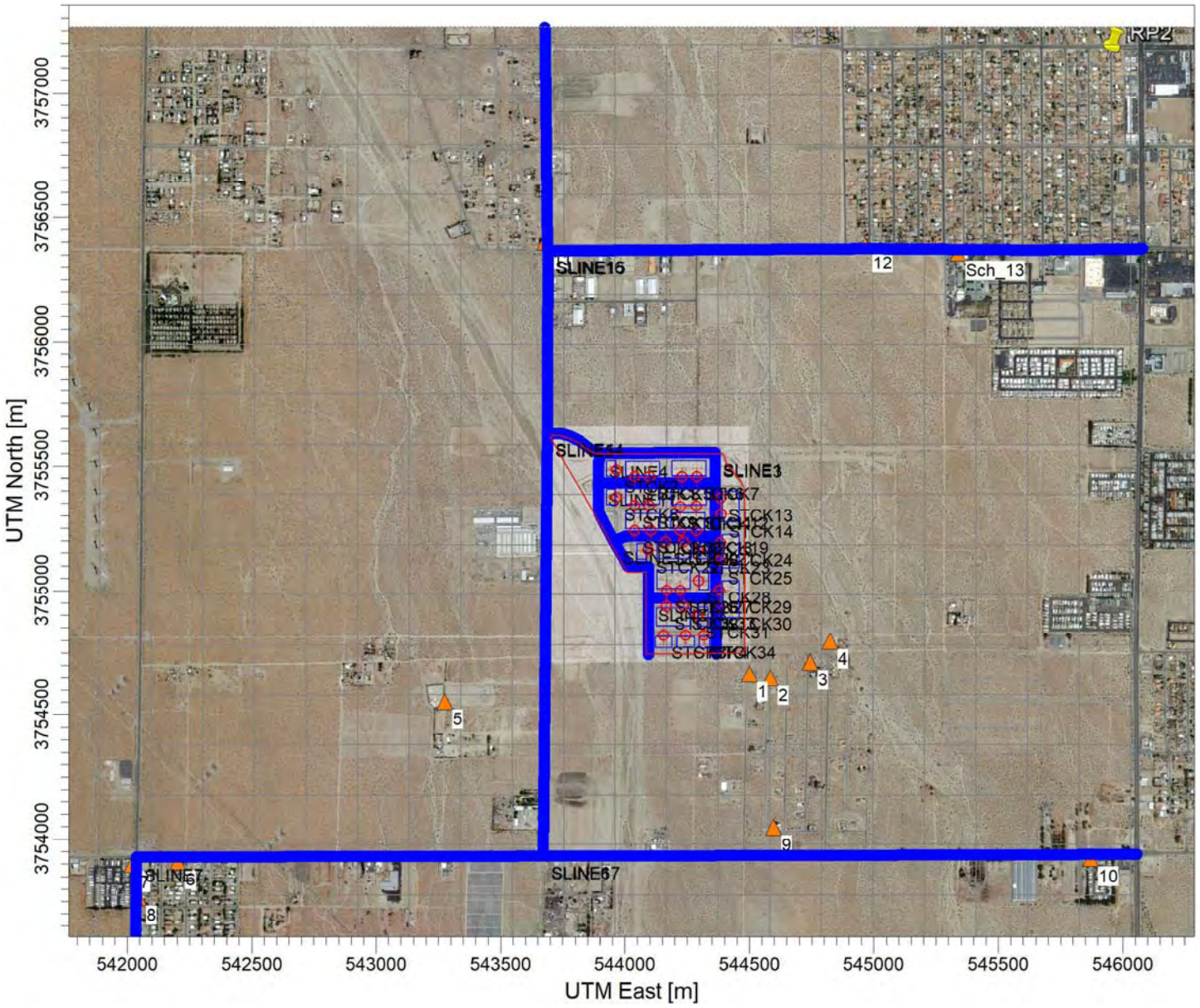
Exposure factors used to calculate TAC intake

Exposure Frequency (days/year)	350
Exposure Duration (years)	14
Daily Breathing Rate	261
Age Sensitivity Factor	1
Fraction of Time At Home (FAH)	0.73
Averaging Time $_{(cancer)}$ (days)	25550
Averaging Time $_{(non\text{-}cancer)}$ (days)	5110

E= 10^{X}, i.e. E-02 = 10^{-2}

Table 32
Cumulative Carcinogenic Risk 30.25-Year Exposure Scenario

Receptor ID	Cumulative RISK (per million)
1	4.62
2	3.46
3	2.15
4	1.65
5	0.38
6	1.57
7	1.03
8	2.16
9	1.34
10	1.65
11	1.18
12	0.64
13	0.85



Legend

Site Boundary
Truck Travel Routes
Cartesian Receptor
Idling Locations
Receptor Locations

Figure 3
AERMOD Model Sorce and Receptor Placement

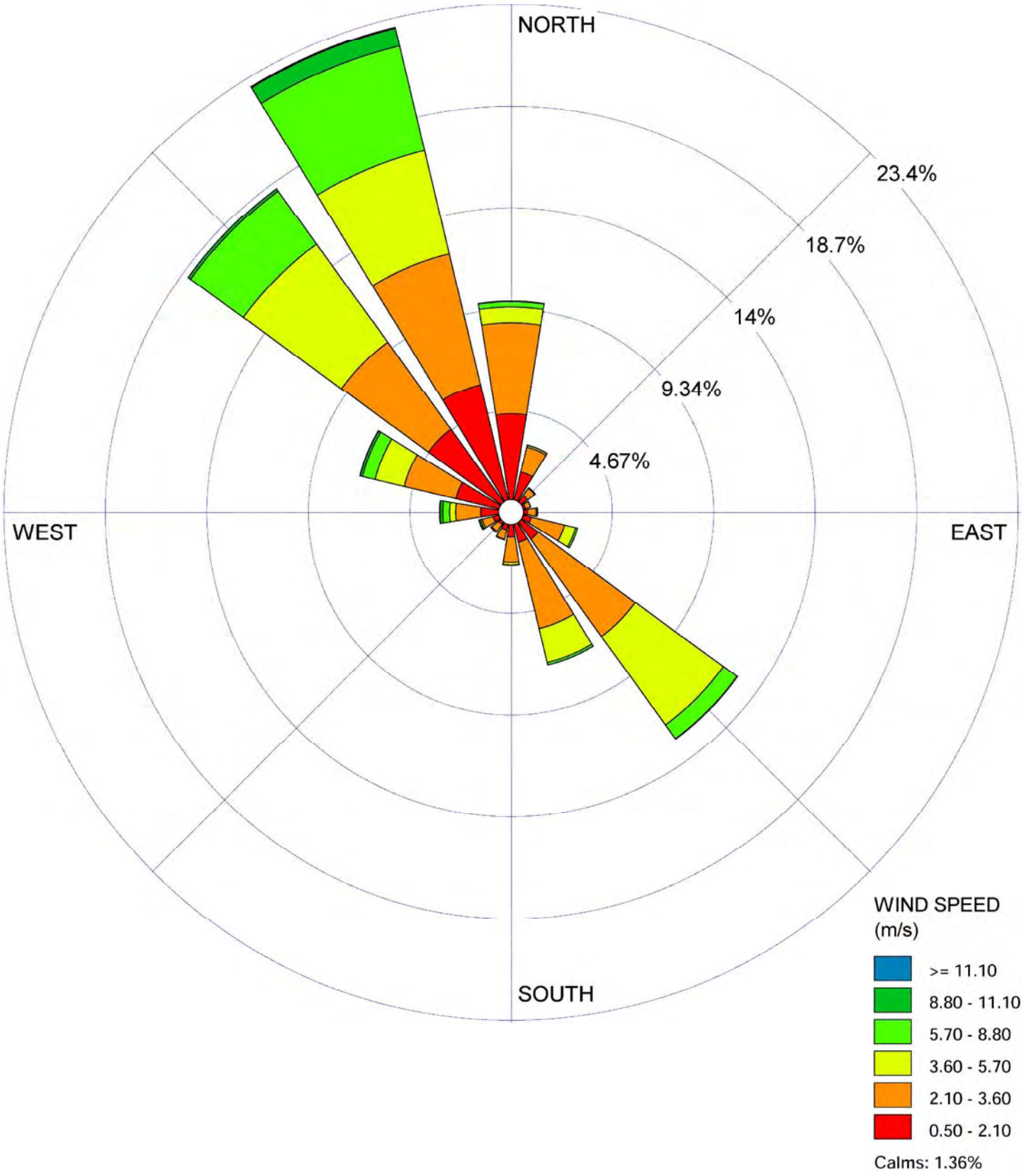
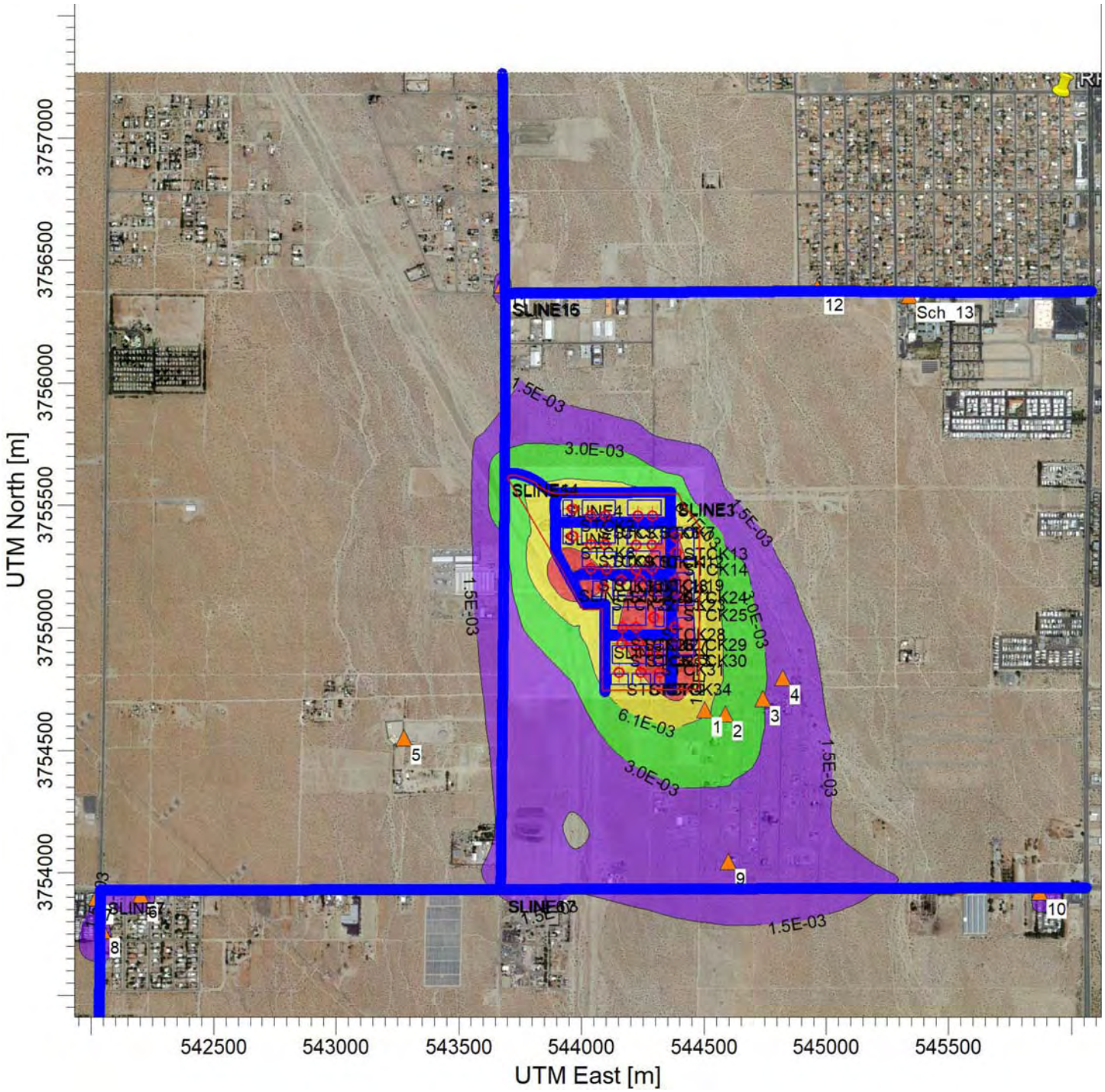


Figure 4
Wind Rose : Desert Hot Springs



N

Infant Cancer Risk Contours
- 5 in a million
- 2 in a million
- 1 in a million
- 0.5 in a million

Figure 5
Modeled Study Area Highest Annual DPM Emissions

9. GLOBAL CLIMATE CHANGE ANALYSIS

The proposed project is anticipated to generate GHG emissions from area sources, energy usage, mobile sources, waste, water, and construction equipment. The following provides the methodology used to calculate the project-related GHG emissions, the project impacts and a consistency analysis of the proposed project with any applicable GHG reduction plans, policies or regulations.

METHODOLOGY

The CalEEMod Version 2016.3.2 was used to calculate the GHG emissions from the proposed project. The project's emissions were compared to the SCAQMD industrial threshold of 10,000 $MTCO_2e$ per year.

The CalEEMod Annual Outputs for year 2021 for Phase 1, 2023 for Phase 2, 2025 for Phase 3, and 2027 for Phase 4 are available in Appendix D. Each source of GHG emissions is described in greater detail below.

Area Sources

Area sources include emissions from consumer products, landscape equipment and architectural coatings. No changes were made to the default area source emissions.

Energy Usage

Energy usage includes emissions from the generation of electricity and natural gas used on-site. As discussed in the project description, project design features include: an on-site Power Reclamation Facility, a total of 86,365,986 kWh of energy per year from solar located on building rooftops and parking area shade structures, and the operation of chillers from heat generation. These alternative energy source design features are anticipated to generate more energy than what is needed by the proposed project. The reductions from the project design features are reported in the mitigated emissions in CalEEMod (see Appenidx D and Table 33). In addition, the proposed project is anticipated to need 24,816,806.4 kWh of annual power consumption for the cultivation uses and 14,691,285.6 kWh of annual power consumption for the general light industrial uses.[17] No other changes were made to the default energy usage parameters.

Mobile Sources

Mobile sources include emissions from the additional vehicle miles generated from the proposed project. The vehicle trips associated with the proposed project have been analyzed by inputting the project-generated vehicular trips from the Traffic Impact Analysis into the CalEEMod Model. The program then applies the emission factors for each trip which is provided by the EMFAC2017 model to determine the vehicular traffic pollutant emissions. The CalEEMod default trip lengths were used in this analysis. See Section 7 for details.

Waste

Waste includes the GHG emissions generated from the processing of waste from the proposed project as well as the GHG emissions from the waste once it is interred into a landfill. No changes were made to the default waste parameters.

Water

Water includes the water used for the interior of the building as well as for landscaping and is based on the GHG emissions associated with the energy used to transport and filter the water. No changes were made to the default water usage parameters.

[17] Piles Consulting Services, LLC (January 2019).

Construction

The construction-related GHG emissions were also included in the analysis and were based on a 30 year amortization rate as recommended in the SCAQMD GHG Working Group meeting on November 19, 2009. The construction-related GHG emissions were calculated by CalEEMod and detailed above in Section 6.

Sequestration

The analysis includes reduction of GHG emissions from the planting of 836 new trees. CAPCOA states that trees sequester carbon dioxide over 20 years of their life, after that, sequestration is nominal and outweighed by tree maintenance-related emissions. The total sequestration value given in the Annual CalEEMod output (see Appendix D) was divided by 20 years to yield an annual value for each phase, which was then subtracted from the project's emissions.

Power Reclamation Facility

As discussed in Section 7 above, the air quality and greenhouse gas related emissions from the Power Reclamation Facility were calculated by KDS Engineering and Dean Piles Consulting Services, LLC and supplied to Ganddini Group. Per Dean Piles Consulting, the Power Reclamation Facility is to precool the turbine intake air temperature and volume to eliminate the production of certain greenhouse gases in turn producing higher temperature and lower combustion air exhaust gases. This is a technique used with additional cost to the plant that reduces certain greenhouse gases generally associated with turbine natural gas combustion.

The calculations used intake air temperature and exhaust gas temperature as factors to determine the final quantities of each of the greenhouse gases. For example, for this particular project, the intake air temperature was reduced by 15 degrees Fahrenheit by evaporative pre-cooling of the intake stream there-by increasing the volume of intake air and creating a leaner mixture burning at lower temperatures. The modeling software inputs and outputs were used per the ASHRAE standards for the regional location of the project for ambient design day temperature and RH averages.

The gas turbine performance criteria used in the calculations were provided by Caterpillar for their Solar 10 and 20 MW Natural Gas Fired Turbine Generators. The natural gas fuel density and low-high heat values and composition are all factored into the determination of the power generation conversion of natural gas as a fuel source. The use of bio-fuel was also factored in as mandated by the CAPUE and all values were sourced from Southern California Gas Company. See Appendix E for more details on the Power Reclamation Facility.

PROJECT GREENHOUSE GAS EMISSIONS

The GHG emissions have been calculated based on the parameters described above. A summary of the results are shown below in Table 33 and the CalEEMod Model run for the proposed project is provided in Appendix D. As discussed above, the project includes energy efficient design features that are anticipated to generate more energy than what is needed by the proposed project. The reductions from these project design features are reported in the mitigated emissions in CalEEMod. The data provided in Table 33 shows the proposed project's emissions, with incorporation of the project's energy efficient design features. Table 33 shows that Phase 1 of the proposed project would generate emissions in the amount of -2,495.08 metric tons of CO_2 equivalents per year, Phase 2 would generate -1,958.08 MTCO2e per year, Phase 3 would generate -1,029.64 MTCO2e per year, and Phase 4 would generate -1,048.36 MTCO2e per year. In addition, at buildout the total project, Phases 1 through 4 combined, would be anticipated to generated emissions in the amount of -6,531.16 MTCO2e per year. According to the thresholds of significance established above in Section 5, a cumulative global climate change impact would occur if the GHG emissions created from the on-going operations of the proposed project would exceed the SCAQMD industrial threshold of 10,000 $MTCO_2e$ per year. As shown in Table 33, with incorporation of project energy efficient design features, the project's

total emissions would not exceed the SCAQMD screening threshold of 10,000 metric tons per year of CO2e for industrial uses. Therefore, with energy efficient design features, operation of the proposed project would not create a significant cumulative impact to global climate change.

GREENHOUSE GAS PLAN CONSISTENCY

The proposed project could have the potential to conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases. The applicable plan for the proposed project is the City of Desert Hot Springs Climate Action Plan (CAP) adopted in May 2013. This plan sets forth goals to reduce emissions to achieve the targets of AB 32.

As stated previously, the SCAQMD's tier 3 thresholds used Executive Order S-3-05 goal as the basis for deriving the screening level. The California Governor issued Executive Order S-3-05, GHG Emission, in June 2005, which established the following reduction targets:

- 2010: Reduce greenhouse gas emissions to 2000 levels
- 2020: Reduce greenhouse gas emissions to 1990 levels
- 2050: Reduce greenhouse gas emissions to 80 percent below 1990 levels.

In 2006, the California State Legislature adopted AB 32, the California Global Warming Solutions Act of 2006. AB 32 requires CARB, to adopt rules and regulations that would achieve GHG emissions equivalent to statewide levels in 1990 by 2020 through an enforceable statewide emission cap which was phased in starting in 2012.

Therefore as the project's emissions meet the threshold for compliance with Executive Order S-3-05, the project's emissions also comply with the goals of AB 32 and the City of Desert Hot Springs CAP. Additionally, as the project meets the current interim emissions targets/thresholds established by SCAQMD (as described in Section V, Air Quality Standards), the project would also be on track to meet the reduction target of 40 percent below 1990 levels by 2030 mandated by SB-32. Furthermore, all of the post 2020 reductions in GHG emissions are addressed via regulatory requirements at the State level and the project will be required to comply with these regulations as they come into effect.

As shown in Table 34, the project is consistent with the applicable measures of the City of Desert Hot Springs CAP. At a total level of -6,531.16 MTCO2e per year, the project's GHG emissions do not exceed the SCAQMD industrial threshold of 10,000 $MTCO_2e$ per year, and is in compliance with the reduction goals of the City of Desert Hot Springs CAP, AB-32 and SB-32. In addition, the project includes energy efficient design features such as an on-site Power Reclamation Facility, a total of 86,365,986 kWh of energy per year from solar located on building rooftops and parking area shade structures, and the operation of chillers from heat generation. These design features are anticipated to generate more energy than what is needed by the proposed project. Furthermore, the project will comply with applicable Green Building Standards and City of Desert Hot Spring's policies regarding sustainability (as dictated by the City's Climate Action Plan). Impacts are considered to be less than significant.

Table 33 (1 of 2)
Project-Related Greenhouse Gas Emissions with Design Features [1]

Phase 1 Category	Greenhouse Gas Emissions (Metric Tons/Year)					
	Bio-CO2	NonBio-CO_2	CO_2	CH_4	N_2O	CO_2e
Area Sources[2]	0.00	0.01	0.01	0.00	0.00	0.01
Energy Usage[3]	0.00	-4,791.98	-4,791.98	-0.20	-0.04	-4,808.69
Mobile Sources[4]	0.00	770.58	770.58	0.04	0.00	771.49
Waste[5]	107.75	0.00	107.75	6.37	0.00	266.94
Water[6]	31.40	410.68	442.09	3.24	0.08	546.89
Construction[7]	0.00	130.51	130.51	0.02	0.00	130.91
Power Reclamation Facility[8]	-	-	597.37	-	-	597.37
Total Emissions	139.15	-3,480.20	-3,341.05	9.46	0.04	**-2,495.08**
SCAQMD Industrial Threshold						**10,000**
Exceeds Threshold?						No

Phase 2 Category	Greenhouse Gas Emissions (Metric Tons/Year)					
	Bio-CO2	NonBio-CO_2	CO_2	CH_4	N_2O	CO_2e
Area Sources[2]	0.00	0.01	0.01	0.00	0.00	0.01
Energy Usage[3]	0.00	-4,670.92	-4,670.92	-0.20	-0.04	-4,686.90
Mobile Sources[4]	0.00	1,236.53	1,236.53	0.05	0.00	1,237.84
Waste[5]	107.75	0.00	107.75	6.37	0.00	266.94
Water[6]	31.40	410.68	442.09	3.24	0.08	546.89
Construction[7]	0.00	79.56	79.56	0.01	0.00	79.78
Power Reclamation Facility[8]	-	-	597.37	-	-	597.37
Total Emissions	139.15	-2,944.14	-2,804.99	9.47	0.04	**-1,958.08**
SCAQMD Industrial Threshold						**10,000**
Exceeds Threshold?						No

Phase 3 Category	Greenhouse Gas Emissions (Metric Tons/Year)					
	Bio-CO2	NonBio-CO_2	CO_2	CH_4	N_2O	CO_2e
Area Sources[2]	0.00	0.00	0.00	0.00	0.00	0.00
Energy Usage[3]	0.00	-2,334.04	-2,334.04	-0.10	-0.02	-2,342.03
Mobile Sources[4]	0.00	556.29	556.29	0.02	0.00	556.88
Waste[5]	53.87	0.00	53.87	3.18	0.00	133.47
Water[6]	15.70	205.34	221.04	1.62	0.04	273.45
Construction[7]	0.00	49.66	49.66	0.01	0.00	49.89
Power Reclamation Facility[8]	-	-	298.69	-	-	298.69
Total Emissions	69.58	-1,522.74	-1,154.48	4.74	0.02	**-1,029.64**
SCAQMD Industrial Threshold						**10,000**
Exceeds Threshold?						No

Table 33 (2 of 2)
Project-Related Greenhouse Gas Emissions with Design Features [1]

Phase 4 Category	Greenhouse Gas Emissions (Metric Tons/Year)					
	Bio-CO2	NonBio-CO_2	CO_2	CH_4	N_2O	CO_2e
Area Sources[2]	0.00	0.00	0.00	0.00	0.00	0.00
Energy Usage[3]	0.00	-2,334.04	-2,334.04	-0.10	-0.02	-2,342.03
Mobile Sources[4]	0.00	532.48	532.48	0.02	0.00	533.02
Waste[5]	53.87	0.00	53.87	3.18	0.00	133.47
Water[6]	15.70	205.34	221.04	1.62	0.04	273.45
Construction[7]	0.00	54.87	54.87	0.01	0.00	55.04
Power Reclamation Facility[8]	-	-	298.69	-	-	298.69
Total Emissions	69.58	-1,541.35	-1,471.77	4.73	0.02	**-1,048.36**
SCAQMD Industrial Threshold						**10,000**
Exceeds Threshold?						No

Total for Phases 1 through 4	**-6,531.16**
SCAQMD Industrial Threshold	**10,000**
Exceeds Threshold?	No

Notes:

(1) Source: CalEEMod Version 2016.3.2 Mitigated scenario. The reductions in the mitigated scenario are that of the project's energy related design features.

(2) Area sources consist of GHG emissions from consumer products, architectural coatings, and landscape equipment.

(3) Energy usage consist of GHG emissions from electricity and natural gas usage.

(4) Mobile sources consist of GHG emissions from vehicles.

(5) Solid waste includes the CO_2 and CH_4 emissions created from the solid waste placed in landfills.

(6) Water includes GHG emissions from electricity used for transport of water and processing of wastewater.

(7) Construction GHG emissions CO_2e based on a 30 year amortization rate. Includes off-site improvements.

(8) Power plant emissions were calculated and supplied, per the applicant, from Piles Consulting Services, LLC (January 2019). See Appendix E for more information.

Table 34
City of Desert Hot Springs CAP Applicable Measures Project Comparison[1]

Sector	CAP Measures to Reduce Greenhouse Gas Emissions	Project Compliance with Measure
Sphere - "Where We Live"		
Solid Waste	Solid Waste Diversion: Increase solid waste diversion rate by 5% to 68.1% by 2015 potentially through use of tiered rate structure.	Consistent. The project will be required to comply with AB 341 which includes recycling programs that reduces waste to landfills by up to 75% by 2020.
Solid Waste	Solid Waste Diversion: Increase solid waste diversion rate by an additional 10% to 78.1% by 2020 potentially through awareness programs, recognition, tiered rate structures, and other financial instruments.	Consistent. The project will be required to comply with AB 341 which includes recycling programs that reduces waste to landfills by up to 75% by 2020.
Sphere - "Where We Work"		
Commercial Buildings	Peak Demand Reduction: Collaborate with SCE and encourage 100 businesses to enroll in Energy Efficiency and Demand Response programs such as the Summer Discount Program.	Consistent. This is a city-based measure. If the project is mandated by the City to be one of the 100 businesses that are to enroll in an Energy Efficiency and Demand Response program then the project will comply as needed.
Commercial Buildings	Energy-Efficient, Commercial-Sector Lighting: Promote and leverage existing incentives for efficient lighting and educate and locally incent building owners to eliminate any remaining T-12 lamps in commercial/industrial buildings.	Consistent. The project will comply with current Title 24 requirements for installation of energy-efficient lighting.
Commercial Buildings	"The Temperature Club": Promote community partnership through policies to adjust indoor temperatures to save/degree reaching out to 100 businesses.	Consistent. This is a city-based measure. If the project is mandated by the City to be one of the 100 businesses in the "Temperature Club," the project will comply as needed.
Commercial Buildings	Integrated Lighting Systems: Promote SCE's Energy Management Solutions' energy- efficient lighting linked to building controls and occupancy sensors in minimum of 1 million square feet of commercial/industrial space.	Consistent. This is a city-based measure. If the project is mandated by the City to be part of the 1 million square feet of commercial/industrial space that is to have energy-efficient lighting linked to building controls and occupancy sensors, then the project will comply as needed.
Government Initiatives	Water Efficient Landscaping Ordinance: Build on and exceed current Water Efficient Landscaping Ordinance in the commercial/industrial sector by 15% community-wide by 2020.	Consistent. The project's landscape design complies with the City's landscaping standards and accommodates the surrounding desert landscape.
Sphere - "How We Build"		
Commercial Buildings	Sustainable Parking Lots: Program to reduce the heat island effect through the promotion of parking lot coverings and coatings and semi permeable surfaces for new construction to achieve 20% of existing parking lots, and 80% of new parking lots.	Consistent. The project includes the planting of trees in the parking lot that would provide shade and reduce the heat island effect and semi-permeable paving will be used as required by the City.
Commercial Buildings	"Cool Roofs": Promote the installation of reflective roofing on commercial/industrial properties in the community with recognition for first ten early adopters.	Consistent. The project will comply with current Title 24 prescriptive cool roof requirements to meet energy compliance.
Government Initiatives	Green Building Program: Promote the voluntary Green Building Program to prepare for enhanced Title 24 requirements and green building standards.	Consistent. The California Green Building Standards Code (proposed Part 11, Title 24) was adopted as part of the California Building Standards Code in the CCR. Part 11 establishes voluntary standards, that became mandatory in the 2016 edition of the Code, on planning and design for sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and internal air contaminants. The project will be subject to these mandatory standards. Further, the projet is to include desgin features such as solar, an on-site power plant, and alternative cooling mechanisms that would supply more power than what is needed by the proposed project.
Water	Stormwater Capture: Promote storm water capture and retention for exterior landscape use (cisterns, rain barrels) to demonstrate 10 new systems by 2020.	Consistent. The project includes four retention basins. These retention basins will reduce the runoff from the project site to its pre-developed rate and meet water quality requirements.

Notes:

(1) Source: City of Desert Hot Springs Climate Action Plan (2013).

10. AIR QUALITY COMPLIANCE

The California Environmental Quality Act (CEQA) requires a discussion of any inconsistencies between a proposed project and applicable General Plans and Regional Plans (CEQA Guidelines Section 15125). The regional plan that applies to the proposed project includes the SCAQMD Air Quality Management Plan (AQMP). Therefore, this section discusses any potential inconsistencies of the proposed project with the AQMP.

The purpose of this discussion is to set forth the issues regarding consistency with the assumptions and objectives of the AQMP and discuss whether the proposed project would interfere with the region's ability to comply with Federal and State air quality standards. If the decision-makers determine that the proposed project is inconsistent, the lead agency may consider project modifications or inclusion of mitigation to eliminate the inconsistency.

The SCAQMD CEQA Handbook states that "New or amended General Plan Elements (including land use zoning and density amendments), Specific Plans, and significant projects must be analyzed for consistency with the AQMP". Strict consistency with all aspects of the plan is usually not required A proposed project should be considered to be consistent with the AQMP if it furthers one or more policies and does not obstruct other policies. The SCAQMD CEQA Handbook identifies two key indicators of consistency:

(1) Whether the project will result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations, or delay timely attainment of air quality standards or the interim emission reductions specified in the AQMP.
(2) Whether the project will exceed the assumptions in the AQMP in 2016 or increments based on the year of project buildout and phase.

Both of these criteria are evaluated in the following sections.

CRITERIA 1 – INCREASE IN THE FREQUENCY OR SEVERITY OF VIOLATIONS

Based on the air quality modeling analysis contained in this Air Analysis, short-term construction impacts will not result in significant impacts based on the SCAQMD regional and local thresholds of significance. This Air Analysis also found that long-term operations impacts will not result in significant impacts based on the SCAQMD local and regional thresholds of significance.

Therefore, the proposed project is not projected to contribute to the exceedance of any air pollutant concentration standards and is found to be consistent with the AQMP for the first criterion.

CRITERIA 2 – EXCEED ASSUMPTIONS IN THE AQMP?

Consistency with the AQMP assumptions is determined by performing an analysis of the proposed project with the assumptions in the AQMP. The emphasis of this criterion is to ensure that the analyses conducted for the proposed project are based on the same forecasts as the AQMP. The 2016-2040 Regional Transportation/Sustainable Communities Strategy prepared by SCAG (2016) includes chapters on: the challenges in a changing region, creating a plan for our future, and the road to greater mobility and sustainable growth. These chapters currently respond directly to federal and state requirements placed on SCAG. Local governments are required to use these as the basis of their plans for purposes of consistency with applicable regional plans under CEQA. For this project, the City Land Use Plan defines the assumptions that are represented in the AQMP.

The project site is currently designated as "Industrial/Employment" on the preferred Land use map in the General Plan. In addition, the General Plan existing land use map designates the project site as Light Industrial (I-L). The proposed project is a mix of light industrial and industrial park uses. Therefore, the proposed project

would not result in an inconsistency with the current land use designation in the City's General Plan. Therefore, the proposed project is not anticipated to exceed the AQMP assumptions for the project site and is found to be consistent with the AQMP for the second criterion.

Based on the above, the proposed project will not result in an inconsistency with the SCAQMD AQMP. Therefore, a less than significant impact will occur.

11. MITIGATION MEASURES

CONSTRUCTION MEASURES

Adherence to SCAQMD Rules 403 and 403.1 is required and the project will be required to obtain and prepare a Fugitive Dust Control Plan.

Mitigation Measure 1. Architectural coatings applied to project buildings are to be limited to 30 grams per liter VOC and traffic paints shall be limited to 100g/L VOC content.

OPERATIONAL MEASURES

No operational mitigation measures required.

12. REFERENCES

California Air Pollution Control Officers Association

2009 Health Risk Assessments for Proposed Land Use Projects

California Air Resources Board

2008 Resolution 08-43

2008 Recommended Approaches for Setting Interim Significance Thresholds for Greenhouse Gases under the California Environmental Quality Act

2008 ARB Recommended Interim Risk Management Policy for Inhalation-Based Residential Cancer Risk – Frequently Asked Questions

2008 Climate Change Scoping Plan, a framework for change.

2011 Supplement to the AB 32 Scoping Plan Functional Equivalent Document

2013 Almanac of Emissions and Air Quality.
Source: https://www.arb.ca.gov/aqd/almanac/almanac13/almanac13.htm

2014 First Update to the Climate Change Scoping Plan, Building on the Framework Pursuant to AB32, the California Global Warming Solutions Act of 2006. May.

2017 California's 2017 Climate Change Scoping Plan. November.

2019 Historical Air Quality, Top 4 Summary

City of Desert Hot Springs

2000 City of Desert Hot Springs 2000 General Plan

2013 Desert Hot Springs Climate Action Plan. May

2017 City of Desert hot Springs Municipal Code. December.

Ganddini Group, Inc.

2019 DHS 109 Business Park Traffic Impact Analysis. May 21.

Governor's Office of Planning and Research

2008 CEQA and Climate: Addressing Climate Change Through California Environmental Quality Act (CEQA) Review

2018 CEQA Guideline Sections to be Added or Amended

Intergovernmental Panel on Climate Change (IPCC)

2014 IPCC Fifth Assessment Report, Climate Change 2014: Synthesis Report

Office of Environmental Health Hazard Assessment

2015 Air Toxics Hot Spots Program Risk Assessment Guidelines

South Coast Air Quality Management District

1993 CEQA Air Quality Handbook

2003 Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis

2005 Rule 403 Fugitive Dust

2007 2007 Air Quality Management Plan

2008 Final Localized Significance Threshold Methodology, Revised

2012 Final 2012 Air Quality Management Plan

2015 Final MATES-IV Multiple Air Toxics Exposure Study in the South Coast Air Basin. May.

2016 2016 Air Quality Management Plan

2018 Historical Data by Year. 2013, 2014 and 2015 Air Quality Data Tables.
Source: http://www.aqmd.gov/home/library/air-quality-data-studies/historical-data-by-year

Southern California Association of Governments

2016 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy

U.S. Environmental Protection Agency (EPA)

2017 Understanding Global Warming Potentials
(Source: https://www.epa.gov/ghgemissions/understanding-global-warming-potentials)

U.S. Geological Survey

2011 Reported Historic Asbestos Mines, Historic Asbestos Prospects, and Other Natural Occurrences of Asbestos in California

APPENDICES

Appendix A Glossary of Terms
Appendix B CalEEMod Model Daily Emissions Printouts
Appendix C AERMOD Model Printouts
Appendix D CalEEMod Model Annual Emissions Printouts
Appendix E Power Reclamation Facility Information

APPENDIX A

GLOSSARY OF TERMS

AQMP	Air Quality Management Plan
BACT	Best Available Control Technologies
CAAQS	California Ambient Air Quality Standards
CalEPA	California Environmental Protection Agency
CARB	California Air Resources Board
CCAA	California Clean Air Act
CCAR	California Climate Action Registry
CEQA	California Environmental Quality Act
CFCs	Chlorofluorocarbons
CH_4	Methane
CNG	Compressed natural gas
CO	Carbon monoxide
CO_2	Carbon dioxide
CO_2e	Carbon dioxide equivalent
DPM	Diesel particulate matter
EPA	U.S. Environmental Protection Agency
GHG	Greenhouse gas
GWP	Global warming potential
HIDPM	Hazard Index Diesel Particulate Matter
HFCs	Hydrofluorocarbons
IPCC	International Panel on Climate Change
LCFS	Low Carbon Fuel Standard
LST	Localized Significant Thresholds
$MTCO_2e$	Metric tons of carbon dioxide equivalent
$MMTCO_2e$	Million metric tons of carbon dioxide equivalent
MPO	Metropolitan Planning Organization
NAAQS	National Ambient Air Quality Standards
NOx	Nitrogen Oxides
NO_2	Nitrogen dioxide
N_2O	Nitrous oxide
O_3	Ozone
OPR	Governor's Office of Planning and Research
PFCs	Perfluorocarbons
PM	Particle matter
PM10	Particles that are less than 10 micrometers in diameter
PM2.5	Particles that are less than 2.5 micrometers in diameter
PMI	Point of maximum impact
PPM	Parts per million
PPB	Parts per billion
RTIP	Regional Transportation Improvement Plan
RTP	Regional Transportation Plan
SANBAG	San Bernardino Association of Governments
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SSAB	Salton Sea Air Basin
SF_6	Sulfur hexafluoride
SIP	State Implementation Plan
SOx	Sulfur Oxides
TAC	Toxic air contaminants
VOC	Volatile organic compounds

APPENDIX B

CALEEMOD MODEL DAILY EMISSIONS PRINTOUTS

6627 DHS 109 - Phase 1

Riverside-Salton Sea County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	68.06	1000sqft	1.56	68,060.00	0
Industrial Park	360.00	1000sqft	8.26	360,000.00	0
Other Asphalt Surfaces	19.00	Acre	19.00	827,640.00	0
Other Non-Asphalt Surfaces	10.45	Acre	10.45	455,202.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

6627 DHS 109 - Phase 1 - Riverside-Salton Sea County, Summer

Project Characteristics -

Land Use - P1 - 39.27 ac- includes 428,060 sf bldgs (84.1% cultivation = 360,000 sf), 6.35 ac power plant site, 179,499 sf (~4.1 ac) basins, & ~50% P1 paving prkg/on-site rdwys (=~19 ac).

Construction Phase - Construction anticipated to start no earlier than July 2019 and end in Q4 2021. P1 to be operational in 2021.

Off-road Equipment -

Off-road Equipment - Building Construction Phase CalEEMod defautl timing decreased by ~30%, equipment has been increased by ~30%.

Off-road Equipment -

Off-road Equipment -

Grading - Site anticipated to balance.

Architectural Coating - SCAQMD Rule 1113 limits architectural coatings to 50g/L VOC. Architectural coatings have been mitigated to 30 g/L VOC for buildings & 100 g/L VOC for parking areas.

Vehicle Trips - Per TIA, 4.96 trips/TSF light industrial & 1,339 trips/920 TSF = 1.46 trips/TSF cultivation. Light industrial 21.4% trks (C-W) & 78.6% autos (CNW). Industrial Park 95% autos (C-NW) & 5% trks (C-W)

Energy Use - Per applicant, Phase 1- IP ~8,272,268.8 kWh/yr & GI ~4,897,095.2 kWh/yr. Converted to kWh/sf/yr & title-24, non-title 24 & lighting based on default %.

Sequestration - Per the landscape architect, ~836 new trees to be planted on-site. Split per bldg square foot. P1 is 33% bldf sf = 276 trees.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - 0

Energy Mitigation - Natural fueled turbine power generators, chillers, solar panels on bldng rooftops & prkng shade structures. Solar to provide ~28,788,662 kWh per year for Phase 1.

Waste Mitigation -

Fleet Mix - Revised vehicle mix per TIA for Light Industrial use of 78.6% Autos, 8% 2-Axle Trucks, 3.9% 3-Axle Trucks & 9.5% 4+ Axle Trucks & industrial park (cultivation use) of 95% autos & 5% 2-axle trucks.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	30.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	30.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	740.00	514.00
tblEnergyUse	LightingElect	2.93	20.72

tblEnergyUse	LightingElect	3.66	8.85
tblEnergyUse	NT24E	5.02	35.62
tblEnergyUse	NT24E	2.79	6.73
tblEnergyUse	T24E	2.20	15.61
tblEnergyUse	T24E	3.07	7.40
tblFleetMix	HHD	0.07	0.10
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.54	0.48
tblFleetMix	LDA	0.54	0.58
tblFleetMix	LDT1	0.04	0.03
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.16
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LHD1	0.02	0.06
tblFleetMix	LHD1	0.02	0.04
tblFleetMix	LHD2	5.1410e-003	0.02
tblFleetMix	LHD2	5.1410e-003	0.01
tblFleetMix	MCY	4.5820e-003	4.0560e-003
tblFleetMix	MCY	4.5820e-003	4.9020e-003
tblFleetMix	MDV	0.12	0.10
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	1.0380e-003	0.00
tblFleetMix	MH	1.0380e-003	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3830e-003	0.00
tblFleetMix	OBUS	1.3830e-003	0.00

tblFleetMix	SBUS	9.4500e-004	0.00
tblFleetMix	SBUS	9.4500e-004	0.00
tblFleetMix	UBUS	1.1830e-003	0.00
tblFleetMix	UBUS	1.1830e-003	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	5.00
tblSequestration	NumberOfNewTrees	0.00	276.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	78.60
tblVehicleTrips	CNW_TTP	13.00	95.00
tblVehicleTrips	CW_TTP	59.00	21.40
tblVehicleTrips	CW_TTP	59.00	5.00
tblVehicleTrips	ST_TR	1.32	4.96
tblVehicleTrips	ST_TR	2.49	1.46
tblVehicleTrips	SU_TR	0.68	4.96
tblVehicleTrips	SU_TR	0.73	1.46
tblVehicleTrips	WD_TR	6.97	4.96
tblVehicleTrips	WD_TR	6.83	1.46

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	7.0260	57.7590	52.5844	0.1582	8.8407	2.3837	11.2244	3.6409	2.1930	5.8339	0.0000	16,020.5824	16,020.5824	1.9475	0.0000	16,061.2650
2020	6.3493	52.5725	49.3030	0.1558	7.4205	1.6143	9.0348	2.0003	1.5126	3.5129	0.0000	15,728.0410	15,728.0410	1.5571	0.0000	15,766.9689
2021	36.8929	62.5166	67.5703	0.1918	8.7507	2.0941	10.8448	2.3531	1.9549	4.3080	0.0000	19,241.1980	19,241.1980	2.2688	0.0000	19,297.9180
Maximum	**36.8929**	**62.5166**	**67.5703**	**0.1918**	**8.8407**	**2.3837**	**11.2244**	**3.6409**	**2.1930**	**5.8339**	**0.0000**	**19,241.1980**	**19,241.1980**	**2.2688**	**0.0000**	**19,297.9180**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	7.0260	57.7590	52.5844	0.1582	7.4206	2.3837	9.3246	2.0003	2.1930	3.7852	0.0000	16,020.5824	16,020.5824	1.9475	0.0000	16,061.2650
2020	6.3493	52.5725	49.3030	0.1558	7.4205	1.6143	9.0348	2.0003	1.5126	3.5129	0.0000	15,728.0410	15,728.0410	1.5571	0.0000	15,766.9689
2021	36.8929	62.5166	67.5703	0.1918	8.7507	2.0941	10.8448	2.3531	1.9549	4.3080	0.0000	19,241.1980	19,241.1980	2.2688	0.0000	19,297.9180
Maximum	**36.8929**	**62.5166**	**67.5703**	**0.1918**	**8.7507**	**2.3837**	**10.8448**	**2.3531**	**2.1930**	**4.3080**	**0.0000**	**19,241.1980**	**19,241.1980**	**2.2688**	**0.0000**	**19,297.9180**

6627 DHS 109 - Phase 1 - Riverside-Salton Sea County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**5.68**	**0.00**	**6.11**	**20.52**	**0.00**	**15.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	12.5815	4.3000e-004	0.0469	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1001	0.1001	2.7000e-004		0.1068
Energy	0.1022	0.9295	0.7808	5.5800e-003		0.0706	0.0706		0.0706	0.0706		1,115.3810	1,115.3810	0.0214	0.0205	1,122.0091
Mobile	1.4815	7.3497	13.3739	0.0488	3.6513	0.0373	3.6887	0.9768	0.0350	1.0118		4,947.0197	4,947.0197	0.2206		4,952.5345
Total	**14.1652**	**8.2796**	**14.2016**	**0.0544**	**3.6513**	**0.1081**	**3.7595**	**0.9768**	**0.1058**	**1.0827**		**6,062.5008**	**6,062.5008**	**0.2422**	**0.0205**	**6,074.6504**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	12.5815	4.3000e-004	0.0469	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1001	0.1001	2.7000e-004		0.1068
Energy	0.1022	0.9295	0.7808	5.5800e-003		0.0706	0.0706		0.0706	0.0706		1,115.3810	1,115.3810	0.0214	0.0205	1,122.0091
Mobile	1.4815	7.3497	13.3739	0.0488	3.6513	0.0373	3.6887	0.9768	0.0350	1.0118		4,947.0197	4,947.0197	0.2206		4,952.5345
Total	**14.1652**	**8.2796**	**14.2016**	**0.0544**	**3.6513**	**0.1081**	**3.7595**	**0.9768**	**0.1058**	**1.0827**		**6,062.5008**	**6,062.5008**	**0.2422**	**0.0205**	**6,074.6504**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	7/1/2019	10/11/2019	5	75	
2	Building Construction	Building Construction	10/12/2019	9/30/2021	5	514	
3	Paving	Paving	8/30/2021	11/12/2021	5	55	
4	Architectural Coating	Architectural Coating	9/30/2021	12/15/2021	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 187.5

Acres of Paving: 29.45

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 642,090; Non-Residential Outdoor: 214,030; Striped Parking Area: 76,971 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	4	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	5	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	719.00	280.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	144.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**4.7389**	**54.5202**	**33.3768**	**0.0620**	**8.6733**	**2.3827**	**11.0560**	**3.5965**	**2.1920**	**5.7885**		**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0908	0.0524	0.6883	1.7200e-003	0.1673	1.0700e-003	0.1684	0.0444	9.8000e-004	0.0454		171.4204	171.4204	4.8900e-003		171.5427
Total	**0.0908**	**0.0524**	**0.6883**	**1.7200e-003**	**0.1673**	**1.0700e-003**	**0.1684**	**0.0444**	**9.8000e-004**	**0.0454**		**171.4204**	**171.4204**	**4.8900e-003**		**171.5427**

3.2 Grading - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**4.7389**	**54.5202**	**33.3768**	**0.0620**	**3.3826**	**2.3827**	**5.7653**	**1.4026**	**2.1920**	**3.5947**	**0.0000**	**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0908	0.0524	0.6883	1.7200e-003	0.1673	1.0700e-003	0.1684	0.0444	9.8000e-004	0.0454		171.4204	171.4204	4.8900e-003		171.5427
Total	**0.0908**	**0.0524**	**0.6883**	**1.7200e-003**	**0.1673**	**1.0700e-003**	**0.1684**	**0.0444**	**9.8000e-004**	**0.0454**		**171.4204**	**171.4204**	**4.8900e-003**		**171.5427**

3.3 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9285	26.5975	22.3877	0.0339		1.6736	1.6736		1.5657	1.5657		3,281.0988	3,281.0988	0.8495		3,302.3361
Total	**2.9285**	**26.5975**	**22.3877**	**0.0339**		**1.6736**	**1.6736**		**1.5657**	**1.5657**		**3,281.0988**	**3,281.0988**	**0.8495**		**3,302.3361**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.8331	29.2790	5.4507	0.0624	1.4049	0.1922	1.5971	0.4047	0.1839	0.5885		6,576.9190	6,576.9190	0.6021		6,591.9704
Worker	3.2643	1.8826	24.7460	0.0619	6.0157	0.0383	6.0540	1.5956	0.0353	1.6309		6,162.5646	6,162.5646	0.1758		6,166.9586
Total	**4.0975**	**31.1615**	**30.1967**	**0.1243**	**7.4206**	**0.2305**	**7.6510**	**2.0003**	**0.2192**	**2.2194**		**12,739.4836**	**12,739.4836**	**0.7778**		**12,758.9289**

3.3 Building Construction - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9285	26.5975	22.3877	0.0339		1.6736	1.6736		1.5657	1.5657	0.0000	3,281.0988	3,281.0988	0.8495		3,302.3361
Total	**2.9285**	**26.5975**	**22.3877**	**0.0339**		**1.6736**	**1.6736**		**1.5657**	**1.5657**	**0.0000**	**3,281.0988**	**3,281.0988**	**0.8495**		**3,302.3361**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.8331	29.2790	5.4507	0.0624	1.4049	0.1922	1.5971	0.4047	0.1839	0.5885		6,576.9190	6,576.9190	0.6021		6,591.9704
Worker	3.2643	1.8826	24.7460	0.0619	6.0157	0.0383	6.0540	1.5956	0.0353	1.6309		6,162.5646	6,162.5646	0.1758		6,166.9586
Total	**4.0975**	**31.1615**	**30.1967**	**0.1243**	**7.4206**	**0.2305**	**7.6510**	**2.0003**	**0.2192**	**2.2194**		**12,739.4836**	**12,739.4836**	**0.7778**		**12,758.9289**

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6305	24.1676	22.0182	0.0339		1.4467	1.4467		1.3536	1.3536		3,227.4388	3,227.4388	0.8410		3,248.4629
Total	**2.6305**	**24.1676**	**22.0182**	**0.0339**		**1.4467**	**1.4467**		**1.3536**	**1.3536**		**3,227.4388**	**3,227.4388**	**0.8410**		**3,248.4629**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7045	26.7291	4.8367	0.0620	1.4048	0.1300	1.5349	0.4047	0.1244	0.5291		6,532.5555	6,532.5555	0.5604		6,546.5647
Worker	3.0144	1.6758	22.4480	0.0599	6.0157	0.0376	6.0532	1.5956	0.0346	1.6302		5,968.0468	5,968.0468	0.1558		5,971.9414
Total	**3.7188**	**28.4049**	**27.2847**	**0.1219**	**7.4205**	**0.1676**	**7.5881**	**2.0003**	**0.1590**	**2.1593**		**12,500.6023**	**12,500.6023**	**0.7162**		**12,518.5060**

3.3 Building Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6305	24.1676	22.0182	0.0339		1.4467	1.4467		1.3536	1.3536	0.0000	3,227.4388	3,227.4388	0.8410		3,248.4629
Total	**2.6305**	**24.1676**	**22.0182**	**0.0339**		**1.4467**	**1.4467**		**1.3536**	**1.3536**	**0.0000**	**3,227.4388**	**3,227.4388**	**0.8410**		**3,248.4629**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7045	26.7291	4.8367	0.0620	1.4048	0.1300	1.5349	0.4047	0.1244	0.5291		6,532.5555	6,532.5555	0.5604		6,546.5647
Worker	3.0144	1.6758	22.4480	0.0599	6.0157	0.0376	6.0532	1.5956	0.0346	1.6302		5,968.0468	5,968.0468	0.1558		5,971.9414
Total	**3.7188**	**28.4049**	**27.2847**	**0.1219**	**7.4205**	**0.1676**	**7.5881**	**2.0003**	**0.1590**	**2.1593**		**12,500.6023**	**12,500.6023**	**0.7162**		**12,518.5060**

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3580	21.9289	21.6985	0.0339		1.2379	1.2379		1.1582	1.1582		3,227.9699	3,227.9699	0.8342		3,248.8248
Total	**2.3580**	**21.9289**	**21.6985**	**0.0339**		**1.2379**	**1.2379**		**1.1582**	**1.1582**		**3,227.9699**	**3,227.9699**	**0.8342**		**3,248.8248**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5990	24.3064	4.2819	0.0614	1.4048	0.0397	1.4445	0.4046	0.0380	0.4426		6,480.3828	6,480.3828	0.5305		6,493.6445
Worker	2.8052	1.5030	20.5702	0.0579	6.0157	0.0366	6.0522	1.5956	0.0337	1.6293		5,768.5308	5,768.5308	0.1400		5,772.0309
Total	**3.4042**	**25.8094**	**24.8521**	**0.1194**	**7.4204**	**0.0763**	**7.4967**	**2.0003**	**0.0716**	**2.0719**		**12,248.9136**	**12,248.9136**	**0.6705**		**12,265.6754**

3.3 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3580	21.9289	21.6985	0.0339		1.2379	1.2379		1.1582	1.1582	0.0000	3,227.9699	3,227.9699	0.8342		3,248.8248
Total	**2.3580**	**21.9289**	**21.6985**	**0.0339**		**1.2379**	**1.2379**		**1.1582**	**1.1582**	**0.0000**	**3,227.9699**	**3,227.9699**	**0.8342**		**3,248.8248**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5990	24.3064	4.2819	0.0614	1.4048	0.0397	1.4445	0.4046	0.0380	0.4426		6,480.3828	6,480.3828	0.5305		6,493.6445
Worker	2.8052	1.5030	20.5702	0.0579	6.0157	0.0366	6.0522	1.5956	0.0337	1.6293		5,768.5308	5,768.5308	0.1400		5,772.0309
Total	**3.4042**	**25.8094**	**24.8521**	**0.1194**	**7.4204**	**0.0763**	**7.4967**	**2.0003**	**0.0716**	**2.0719**		**12,248.9136**	**12,248.9136**	**0.6705**		**12,265.6754**

3.4 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.9051					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.1606**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**		**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0585	0.0314	0.4291	1.2100e-003	0.1255	7.6000e-004	0.1263	0.0333	7.0000e-004	0.0340		120.3449	120.3449	2.9200e-003		120.4179
Total	**0.0585**	**0.0314**	**0.4291**	**1.2100e-003**	**0.1255**	**7.6000e-004**	**0.1263**	**0.0333**	**7.0000e-004**	**0.0340**		**120.3449**	**120.3449**	**2.9200e-003**		**120.4179**

3.4 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.9051					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.1606**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**	**0.0000**	**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0585	0.0314	0.4291	1.2100e-003	0.1255	7.6000e-004	0.1263	0.0333	7.0000e-004	0.0340		120.3449	120.3449	2.9200e-003		120.4179
Total	**0.0585**	**0.0314**	**0.4291**	**1.2100e-003**	**0.1255**	**7.6000e-004**	**0.1263**	**0.0333**	**7.0000e-004**	**0.0340**		**120.3449**	**120.3449**	**2.9200e-003**		**120.4179**

3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.1308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**28.3497**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5618	0.3010	4.1198	0.0116	1.2048	7.3200e-003	1.2121	0.3196	6.7400e-003	0.3263		1,155.3108	1,155.3108	0.0280		1,156.0118
Total	**0.5618**	**0.3010**	**4.1198**	**0.0116**	**1.2048**	**7.3200e-003**	**1.2121**	**0.3196**	**6.7400e-003**	**0.3263**		**1,155.3108**	**1,155.3108**	**0.0280**		**1,156.0118**

3.5 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.1308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**28.3497**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5618	0.3010	4.1198	0.0116	1.2048	7.3200e-003	1.2121	0.3196	6.7400e-003	0.3263		1,155.3108	1,155.3108	0.0280		1,156.0118
Total	**0.5618**	**0.3010**	**4.1198**	**0.0116**	**1.2048**	**7.3200e-003**	**1.2121**	**0.3196**	**6.7400e-003**	**0.3263**		**1,155.3108**	**1,155.3108**	**0.0280**		**1,156.0118**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.4815	7.3497	13.3739	0.0488	3.6513	0.0373	3.6887	0.9768	0.0350	1.0118		4,947.0197	4,947.0197	0.2206		4,952.5345
Unmitigated	1.4815	7.3497	13.3739	0.0488	3.6513	0.0373	3.6887	0.9768	0.0350	1.0118		4,947.0197	4,947.0197	0.2206		4,952.5345

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	337.58	337.58	337.58	793,221	793,221
Industrial Park	525.60	525.60	525.60	922,501	922,501
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	863.18	863.18	863.18	1,715,722	1,715,722

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	12.50	4.20	5.40	21.40	0.00	78.60	92	5	3
Industrial Park	12.50	4.20	5.40	5.00	0.00	95.00	79	19	2
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.479856	0.033262	0.163933	0.104893	0.060765	0.019235	0.039000	0.095000	0.000000	0.000000	0.004056	0.000000	0.000000
Industrial Park	0.579978	0.040203	0.198138	0.126779	0.037978	0.012022	0.000000	0.000000	0.000000	0.000000	0.004902	0.000000	0.000000
Other Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Non-Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1022	0.9295	0.7808	5.5800e-003		0.0706	0.0706		0.0706	0.0706		1,115.3810	1,115.3810	0.0214	0.0205	1,122.0091
NaturalGas Unmitigated	0.1022	0.9295	0.7808	5.5800e-003		0.0706	0.0706		0.0706	0.0706		1,115.3810	1,115.3810	0.0214	0.0205	1,122.0091

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	6058.27	0.0653	0.5940	0.4989	3.5600e-003		0.0451	0.0451		0.0451	0.0451		712.7379	712.7379	0.0137	0.0131	716.9734
Industrial Park	3422.47	0.0369	0.3355	0.2819	2.0100e-003		0.0255	0.0255		0.0255	0.0255		402.6430	402.6430	7.7200e-003	7.3800e-003	405.0357
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1022**	**0.9295**	**0.7808**	**5.5700e-003**		**0.0706**	**0.0706**		**0.0706**	**0.0706**		**1,115.3810**	**1,115.3810**	**0.0214**	**0.0205**	**1,122.0091**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	6.05827	0.0653	0.5940	0.4989	3.5600e-003		0.0451	0.0451		0.0451	0.0451		712.7379	712.7379	0.0137	0.0131	716.9734
Industrial Park	3.42247	0.0369	0.3355	0.2819	2.0100e-003		0.0255	0.0255		0.0255	0.0255		402.6430	402.6430	7.7200e-003	7.3800e-003	405.0357
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1022**	**0.9295**	**0.7808**	**5.5700e-003**		**0.0706**	**0.0706**		**0.0706**	**0.0706**		**1,115.3810**	**1,115.3810**	**0.0214**	**0.0205**	**1,122.0091**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	12.5815	4.3000e-004	0.0469	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1001	0.1001	2.7000e-004		0.1068
Unmitigated	12.5815	4.3000e-004	0.0469	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1001	0.1001	2.7000e-004		0.1068

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.9622					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.6149					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.3800e-003	4.3000e-004	0.0469	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1001	0.1001	2.7000e-004		0.1068
Total	**12.5815**	**4.3000e-004**	**0.0469**	**0.0000**		**1.7000e-004**	**1.7000e-004**		**1.7000e-004**	**1.7000e-004**		**0.1001**	**0.1001**	**2.7000e-004**		**0.1068**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.9622					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.6149					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.3800e-003	4.3000e-004	0.0469	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1001	0.1001	2.7000e-004		0.1068
Total	**12.5815**	**4.3000e-004**	**0.0469**	**0.0000**		**1.7000e-004**	**1.7000e-004**		**1.7000e-004**	**1.7000e-004**		**0.1001**	**0.1001**	**2.7000e-004**		**0.1068**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

6627 DHS 109 - Phase 1

Riverside-Salton Sea County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	68.06	1000sqft	1.56	68,060.00	0
Industrial Park	360.00	1000sqft	8.26	360,000.00	0
Other Asphalt Surfaces	19.00	Acre	19.00	827,640.00	0
Other Non-Asphalt Surfaces	10.45	Acre	10.45	455,202.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

6627 DHS 109 - Phase 1 - Riverside-Salton Sea County, Winter

Project Characteristics -

Land Use - P1 - 39.27 ac- includes 428,060 sf bldgs (84.1% cultivation = 360,000 sf), 6.35 ac power plant site, 179,499 sf (~4.1 ac) basins, & ~50% P1 paving prkg/on-site rdwys (=~19 ac).

Construction Phase - Construction anticipated to start no earlier than July 2019 and end in Q4 2021. P1 to be operational in 2021.

Off-road Equipment -

Off-road Equipment - Building Construction Phase CalEEMod defautl timing decreased by ~30%, equipment has been increased by ~30%.

Off-road Equipment -

Off-road Equipment -

Grading - Site anticipated to balance.

Architectural Coating - SCAQMD Rule 1113 limits architectural coatings to 50g/L VOC. Architectural coatings have been mitigated to 30 g/L VOC for buildings & 100 g/L VOC for parking areas.

Vehicle Trips - Per TIA, 4.96 trips/TSF light industrial & 1,339 trips/920 TSF = 1.46 trips/TSF cultivation. Light industrial 21.4% trks (C-W) & 78.6% autos (CNW). Industrial Park 95% autos (C-NW) & 5% trks (C-W)

Energy Use - Per applicant, Phase 1- IP ~8,272,268.8 kWh/yr & GI ~4,897,095.2 kWh/yr. Converted to kWh/sf/yr & title-24, non-title 24 & lighting based on default %.

Sequestration - Per the landscape architect, ~836 new trees to be planted on-site. Split per bldg square foot. P1 is 33% bldf sf = 276 trees.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - 0

Energy Mitigation - Natural fueled turbine power generators, chillers, solar panels on bldng rooftops & prkng shade structures. Solar to provide ~28,788,662 kWh per year for Phase 1.

Waste Mitigation -

Fleet Mix - Revised vehicle mix per TIA for Light Industrial use of 78.6% Autos, 8% 2-Axle Trucks, 3.9% 3-Axle Trucks & 9.5% 4+ Axle Trucks & industrial park (cultivation use) of 95% autos & 5% 2-axle trucks.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	30.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	30.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	740.00	514.00
tblEnergyUse	LightingElect	2.93	20.72

tblEnergyUse	LightingElect	3.66	8.85
tblEnergyUse	NT24E	5.02	35.62
tblEnergyUse	NT24E	2.79	6.73
tblEnergyUse	T24E	2.20	15.61
tblEnergyUse	T24E	3.07	7.40
tblFleetMix	HHD	0.07	0.10
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.54	0.48
tblFleetMix	LDA	0.54	0.58
tblFleetMix	LDT1	0.04	0.03
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.16
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LHD1	0.02	0.06
tblFleetMix	LHD1	0.02	0.04
tblFleetMix	LHD2	5.1410e-003	0.02
tblFleetMix	LHD2	5.1410e-003	0.01
tblFleetMix	MCY	4.5820e-003	4.0560e-003
tblFleetMix	MCY	4.5820e-003	4.9020e-003
tblFleetMix	MDV	0.12	0.10
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	1.0380e-003	0.00
tblFleetMix	MH	1.0380e-003	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3830e-003	0.00
tblFleetMix	OBUS	1.3830e-003	0.00

tblFleetMix	SBUS	9.4500e-004	0.00
tblFleetMix	SBUS	9.4500e-004	0.00
tblFleetMix	UBUS	1.1830e-003	0.00
tblFleetMix	UBUS	1.1830e-003	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	5.00
tblSequestration	NumberOfNewTrees	0.00	276.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	78.60
tblVehicleTrips	CNW_TTP	13.00	95.00
tblVehicleTrips	CW_TTP	59.00	21.40
tblVehicleTrips	CW_TTP	59.00	5.00
tblVehicleTrips	ST_TR	1.32	4.96
tblVehicleTrips	ST_TR	2.49	1.46
tblVehicleTrips	SU_TR	0.68	4.96
tblVehicleTrips	SU_TR	0.73	1.46
tblVehicleTrips	WD_TR	6.97	4.96
tblVehicleTrips	WD_TR	6.83	1.46

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	6.9215	57.6170	49.1432	0.1491	8.8407	2.3837	11.2244	3.6409	2.1930	5.8339	0.0000	15,099.4407	15,099.4407	1.9469	0.0000	15,141.3054
2020	6.2583	52.3699	46.1634	0.1469	7.4205	1.6162	9.0367	2.0003	1.5144	3.5147	0.0000	14,827.0055	14,827.0055	1.6031	0.0000	14,867.0836
2021	36.7876	62.2712	63.8472	0.1818	8.7507	2.0956	10.8463	2.3531	1.9563	4.3094	0.0000	18,231.9843	18,231.9843	2.3102	0.0000	18,289.7400
Maximum	**36.7876**	**62.2712**	**63.8472**	**0.1818**	**8.8407**	**2.3837**	**11.2244**	**3.6409**	**2.1930**	**5.8339**	**0.0000**	**18,231.9843**	**18,231.9843**	**2.3102**	**0.0000**	**18,289.7400**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	6.9215	57.6170	49.1432	0.1491	7.4206	2.3837	9.3276	2.0003	2.1930	3.7880	0.0000	15,099.4407	15,099.4407	1.9469	0.0000	15,141.3054
2020	6.2583	52.3699	46.1634	0.1469	7.4205	1.6162	9.0367	2.0003	1.5144	3.5147	0.0000	14,827.0055	14,827.0055	1.6031	0.0000	14,867.0836
2021	36.7876	62.2712	63.8472	0.1818	8.7507	2.0956	10.8463	2.3531	1.9563	4.3094	0.0000	18,231.9843	18,231.9843	2.3102	0.0000	18,289.7400
Maximum	**36.7876**	**62.2712**	**63.8472**	**0.1818**	**8.7507**	**2.3837**	**10.8463**	**2.3531**	**2.1930**	**4.3094**	**0.0000**	**18,231.9843**	**18,231.9843**	**2.3102**	**0.0000**	**18,289.7400**

6627 DHS 109 - Phase 1 - Riverside-Salton Sea County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**5.68**	**0.00**	**6.10**	**20.52**	**0.00**	**14.98**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	12.5815	4.3000e-004	0.0469	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1001	0.1001	2.7000e-004		0.1068
Energy	0.1022	0.9295	0.7808	5.5800e-003		0.0706	0.0706		0.0706	0.0706		1,115.3810	1,115.3810	0.0214	0.0205	1,122.0091
Mobile	1.2331	7.3804	11.9035	0.0450	3.6513	0.0377	3.6890	0.9768	0.0353	1.0122		4,563.8283	4,563.8283	0.2280		4,569.5288
Total	**13.9169**	**8.3103**	**12.7312**	**0.0506**	**3.6513**	**0.1085**	**3.7598**	**0.9768**	**0.1061**	**1.0830**		**5,679.3094**	**5,679.3094**	**0.2497**	**0.0205**	**5,691.6446**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	12.5815	4.3000e-004	0.0469	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1001	0.1001	2.7000e-004		0.1068
Energy	0.1022	0.9295	0.7808	5.5800e-003		0.0706	0.0706		0.0706	0.0706		1,115.3810	1,115.3810	0.0214	0.0205	1,122.0091
Mobile	1.2331	7.3804	11.9035	0.0450	3.6513	0.0377	3.6890	0.9768	0.0353	1.0122		4,563.8283	4,563.8283	0.2280		4,569.5288
Total	**13.9169**	**8.3103**	**12.7312**	**0.0506**	**3.6513**	**0.1085**	**3.7598**	**0.9768**	**0.1061**	**1.0830**		**5,679.3094**	**5,679.3094**	**0.2497**	**0.0205**	**5,691.6446**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	7/1/2019	10/11/2019	5	75	
2	Building Construction	Building Construction	10/12/2019	9/30/2021	5	514	
3	Paving	Paving	8/30/2021	11/12/2021	5	55	
4	Architectural Coating	Architectural Coating	9/30/2021	12/15/2021	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 187.5

Acres of Paving: 29.45

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 642,090; Non-Residential Outdoor: 214,030; Striped Parking Area: 76,971 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	4	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	5	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	719.00	280.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	144.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**4.7389**	**54.5202**	**33.3768**	**0.0620**	**8.6733**	**2.3827**	**11.0560**	**3.5965**	**2.1920**	**5.7885**		**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0866	0.0542	0.5655	1.5500e-003	0.1673	1.0700e-003	0.1684	0.0444	9.8000e-004	0.0454		153.8697	153.8697	4.2900e-003		153.9768
Total	**0.0866**	**0.0542**	**0.5655**	**1.5500e-003**	**0.1673**	**1.0700e-003**	**0.1684**	**0.0444**	**9.8000e-004**	**0.0454**		**153.8697**	**153.8697**	**4.2900e-003**		**153.9768**

3.2 Grading - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**4.7389**	**54.5202**	**33.3768**	**0.0620**	**3.3826**	**2.3827**	**5.7653**	**1.4026**	**2.1920**	**3.5947**	**0.0000**	**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0866	0.0542	0.5655	1.5500e-003	0.1673	1.0700e-003	0.1684	0.0444	9.8000e-004	0.0454		153.8697	153.8697	4.2900e-003		153.9768
Total	**0.0866**	**0.0542**	**0.5655**	**1.5500e-003**	**0.1673**	**1.0700e-003**	**0.1684**	**0.0444**	**9.8000e-004**	**0.0454**		**153.8697**	**153.8697**	**4.2900e-003**		**153.9768**

3.3 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9285	26.5975	22.3877	0.0339		1.6736	1.6736		1.5657	1.5657		3,281.0988	3,281.0988	0.8495		3,302.3361
Total	**2.9285**	**26.5975**	**22.3877**	**0.0339**		**1.6736**	**1.6736**		**1.5657**	**1.5657**		**3,281.0988**	**3,281.0988**	**0.8495**		**3,302.3361**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.8791	29.0706	6.4275	0.0597	1.4049	0.1952	1.6001	0.4047	0.1868	0.5914		6,286.7277	6,286.7277	0.6710		6,303.5033
Worker	3.1138	1.9489	20.3280	0.0556	6.0157	0.0383	6.0540	1.5956	0.0353	1.6309		5,531.6142	5,531.6142	0.1541		5,535.4660
Total	**3.9929**	**31.0195**	**26.7556**	**0.1152**	**7.4206**	**0.2335**	**7.6541**	**2.0003**	**0.2220**	**2.2223**		**11,818.3419**	**11,818.3419**	**0.8251**		**11,838.9693**

3.3 Building Construction - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9285	26.5975	22.3877	0.0339		1.6736	1.6736		1.5657	1.5657	0.0000	3,281.0988	3,281.0988	0.8495		3,302.3361
Total	**2.9285**	**26.5975**	**22.3877**	**0.0339**		**1.6736**	**1.6736**		**1.5657**	**1.5657**	**0.0000**	**3,281.0988**	**3,281.0988**	**0.8495**		**3,302.3361**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.8791	29.0706	6.4275	0.0597	1.4049	0.1952	1.6001	0.4047	0.1868	0.5914		6,286.7277	6,286.7277	0.6710		6,303.5033
Worker	3.1138	1.9489	20.3280	0.0556	6.0157	0.0383	6.0540	1.5956	0.0353	1.6309		5,531.6142	5,531.6142	0.1541		5,535.4660
Total	**3.9929**	**31.0195**	**26.7556**	**0.1152**	**7.4206**	**0.2335**	**7.6541**	**2.0003**	**0.2220**	**2.2223**		**11,818.3419**	**11,818.3419**	**0.8251**		**11,838.9693**

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6305	24.1676	22.0182	0.0339		1.4467	1.4467		1.3536	1.3536		3,227.4388	3,227.4388	0.8410		3,248.4629
Total	**2.6305**	**24.1676**	**22.0182**	**0.0339**		**1.4467**	**1.4467**		**1.3536**	**1.3536**		**3,227.4388**	**3,227.4388**	**0.8410**		**3,248.4629**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7469	26.4686	5.7415	0.0592	1.4048	0.1320	1.5368	0.4047	0.1263	0.5309		6,242.8070	6,242.8070	0.6257		6,258.4482
Worker	2.8809	1.7337	18.4037	0.0538	6.0157	0.0376	6.0532	1.5956	0.0346	1.6302		5,356.7597	5,356.7597	0.1365		5,360.1725
Total	**3.6278**	**28.2023**	**24.1451**	**0.1130**	**7.4205**	**0.1696**	**7.5900**	**2.0003**	**0.1608**	**2.1611**		**11,599.5667**	**11,599.5667**	**0.7622**		**11,618.6208**

3.3 Building Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6305	24.1676	22.0182	0.0339		1.4467	1.4467		1.3536	1.3536	0.0000	3,227.4388	3,227.4388	0.8410		3,248.4629
Total	**2.6305**	**24.1676**	**22.0182**	**0.0339**		**1.4467**	**1.4467**		**1.3536**	**1.3536**	**0.0000**	**3,227.4388**	**3,227.4388**	**0.8410**		**3,248.4629**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7469	26.4686	5.7415	0.0592	1.4048	0.1320	1.5368	0.4047	0.1263	0.5309		6,242.8070	6,242.8070	0.6257		6,258.4482
Worker	2.8809	1.7337	18.4037	0.0538	6.0157	0.0376	6.0532	1.5956	0.0346	1.6302		5,356.7597	5,356.7597	0.1365		5,360.1725
Total	**3.6278**	**28.2023**	**24.1451**	**0.1130**	**7.4205**	**0.1696**	**7.5900**	**2.0003**	**0.1608**	**2.1611**		**11,599.5667**	**11,599.5667**	**0.7622**		**11,618.6208**

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3580	21.9289	21.6985	0.0339		1.2379	1.2379		1.1582	1.1582		3,227.9699	3,227.9699	0.8342		3,248.8248
Total	**2.3580**	**21.9289**	**21.6985**	**0.0339**		**1.2379**	**1.2379**		**1.1582**	**1.1582**		**3,227.9699**	**3,227.9699**	**0.8342**		**3,248.8248**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6392	23.9982	5.1312	0.0587	1.4048	0.0412	1.4459	0.4046	0.0394	0.4440		6,192.6044	6,192.6044	0.5931		6,207.4306
Worker	2.6860	1.5545	16.8259	0.0520	6.0157	0.0366	6.0522	1.5956	0.0337	1.6293		5,177.7427	5,177.7427	0.1227		5,180.8098
Total	**3.3253**	**25.5526**	**21.9570**	**0.1107**	**7.4204**	**0.0777**	**7.4982**	**2.0003**	**0.0730**	**2.0733**		**11,370.3471**	**11,370.3471**	**0.7157**		**11,388.2403**

3.3 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3580	21.9289	21.6985	0.0339		1.2379	1.2379		1.1582	1.1582	0.0000	3,227.9699	3,227.9699	0.8342		3,248.8248
Total	**2.3580**	**21.9289**	**21.6985**	**0.0339**		**1.2379**	**1.2379**		**1.1582**	**1.1582**	**0.0000**	**3,227.9699**	**3,227.9699**	**0.8342**		**3,248.8248**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6392	23.9982	5.1312	0.0587	1.4048	0.0412	1.4459	0.4046	0.0394	0.4440		6,192.6044	6,192.6044	0.5931		6,207.4306
Worker	2.6860	1.5545	16.8259	0.0520	6.0157	0.0366	6.0522	1.5956	0.0337	1.6293		5,177.7427	5,177.7427	0.1227		5,180.8098
Total	**3.3253**	**25.5526**	**21.9570**	**0.1107**	**7.4204**	**0.0777**	**7.4982**	**2.0003**	**0.0730**	**2.0733**		**11,370.3471**	**11,370.3471**	**0.7157**		**11,388.2403**

3.4 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.9051					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.1606**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**		**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0560	0.0324	0.3510	1.0800e-003	0.1255	7.6000e-004	0.1263	0.0333	7.0000e-004	0.0340		108.0197	108.0197	2.5600e-003		108.0837
Total	**0.0560**	**0.0324**	**0.3510**	**1.0800e-003**	**0.1255**	**7.6000e-004**	**0.1263**	**0.0333**	**7.0000e-004**	**0.0340**		**108.0197**	**108.0197**	**2.5600e-003**		**108.0837**

3.4 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.9051					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.1606**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**	**0.0000**	**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0560	0.0324	0.3510	1.0800e-003	0.1255	7.6000e-004	0.1263	0.0333	7.0000e-004	0.0340		108.0197	108.0197	2.5600e-003		108.0837
Total	**0.0560**	**0.0324**	**0.3510**	**1.0800e-003**	**0.1255**	**7.6000e-004**	**0.1263**	**0.0333**	**7.0000e-004**	**0.0340**		**108.0197**	**108.0197**	**2.5600e-003**		**108.0837**

3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.1308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**28.3497**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5380	0.3113	3.3699	0.0104	1.2048	7.3200e-003	1.2121	0.3196	6.7400e-003	0.3263		1,036.9888	1,036.9888	0.0246		1,037.6031
Total	**0.5380**	**0.3113**	**3.3699**	**0.0104**	**1.2048**	**7.3200e-003**	**1.2121**	**0.3196**	**6.7400e-003**	**0.3263**		**1,036.9888**	**1,036.9888**	**0.0246**		**1,037.6031**

3.5 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.1308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**28.3497**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5380	0.3113	3.3699	0.0104	1.2048	7.3200e-003	1.2121	0.3196	6.7400e-003	0.3263		1,036.9888	1,036.9888	0.0246		1,037.6031
Total	**0.5380**	**0.3113**	**3.3699**	**0.0104**	**1.2048**	**7.3200e-003**	**1.2121**	**0.3196**	**6.7400e-003**	**0.3263**		**1,036.9888**	**1,036.9888**	**0.0246**		**1,037.6031**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2331	7.3804	11.9035	0.0450	3.6513	0.0377	3.6890	0.9768	0.0353	1.0122		4,563.8283	4,563.8283	0.2280		4,569.5288
Unmitigated	1.2331	7.3804	11.9035	0.0450	3.6513	0.0377	3.6890	0.9768	0.0353	1.0122		4,563.8283	4,563.8283	0.2280		4,569.5288

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	337.58	337.58	337.58	793,221	793,221
Industrial Park	525.60	525.60	525.60	922,501	922,501
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	863.18	863.18	863.18	1,715,722	1,715,722

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	12.50	4.20	5.40	21.40	0.00	78.60	92	5	3
Industrial Park	12.50	4.20	5.40	5.00	0.00	95.00	79	19	2
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.479856	0.033262	0.163933	0.104893	0.060765	0.019235	0.039000	0.095000	0.000000	0.000000	0.004056	0.000000	0.000000
Industrial Park	0.579978	0.040203	0.198138	0.126779	0.037978	0.012022	0.000000	0.000000	0.000000	0.000000	0.004902	0.000000	0.000000
Other Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Non-Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1022	0.9295	0.7808	5.5800e-003		0.0706	0.0706		0.0706	0.0706		1,115.3810	1,115.3810	0.0214	0.0205	1,122.0091
NaturalGas Unmitigated	0.1022	0.9295	0.7808	5.5800e-003		0.0706	0.0706		0.0706	0.0706		1,115.3810	1,115.3810	0.0214	0.0205	1,122.0091

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	6058.27	0.0653	0.5940	0.4989	3.5600e-003		0.0451	0.0451		0.0451	0.0451		712.7379	712.7379	0.0137	0.0131	716.9734
Industrial Park	3422.47	0.0369	0.3355	0.2819	2.0100e-003		0.0255	0.0255		0.0255	0.0255		402.6430	402.6430	7.7200e-003	7.3800e-003	405.0357
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1022**	**0.9295**	**0.7808**	**5.5700e-003**		**0.0706**	**0.0706**		**0.0706**	**0.0706**		**1,115.3810**	**1,115.3810**	**0.0214**	**0.0205**	**1,122.0091**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	6.05827	0.0653	0.5940	0.4989	3.5600e-003		0.0451	0.0451		0.0451	0.0451		712.7379	712.7379	0.0137	0.0131	716.9734
Industrial Park	3.42247	0.0369	0.3355	0.2819	2.0100e-003		0.0255	0.0255		0.0255	0.0255		402.6430	402.6430	7.7200e-003	7.3800e-003	405.0357
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1022**	**0.9295**	**0.7808**	**5.5700e-003**		**0.0706**	**0.0706**		**0.0706**	**0.0706**		**1,115.3810**	**1,115.3810**	**0.0214**	**0.0205**	**1,122.0091**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	12.5815	4.3000e-004	0.0469	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1001	0.1001	2.7000e-004		0.1068
Unmitigated	12.5815	4.3000e-004	0.0469	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1001	0.1001	2.7000e-004		0.1068

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.9622					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.6149					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.3800e-003	4.3000e-004	0.0469	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1001	0.1001	2.7000e-004		0.1068
Total	**12.5815**	**4.3000e-004**	**0.0469**	**0.0000**		**1.7000e-004**	**1.7000e-004**		**1.7000e-004**	**1.7000e-004**		**0.1001**	**0.1001**	**2.7000e-004**		**0.1068**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.9622					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.6149					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.3800e-003	4.3000e-004	0.0469	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1001	0.1001	2.7000e-004		0.1068
Total	**12.5815**	**4.3000e-004**	**0.0469**	**0.0000**		**1.7000e-004**	**1.7000e-004**		**1.7000e-004**	**1.7000e-004**		**0.1001**	**0.1001**	**2.7000e-004**		**0.1068**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

6627 DHS 109 - Phase 2

Riverside-Salton Sea County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	148.06	1000sqft	3.40	148,060.00	0
Industrial Park	280.00	1000sqft	6.43	280,000.00	0
Other Asphalt Surfaces	14.78	Acre	14.78	643,816.80	0
Other Non-Asphalt Surfaces	1.06	Acre	1.06	46,173.60	0
Other Non-Asphalt Surfaces	3.89	Acre	3.89	169,448.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

6627 DHS 109 - Phase 2 - Riverside-Salton Sea County, Summer

Project Characteristics -

Land Use - Phase 2- 29.56 ac w/ 428,060 sf bldgs (65.41% cultivation = 280,000sf), 46,217 sf (~1.06 ac) basins, ~50% P2 paving prkg/on-site rdwys (=~14.78ac), & remainder 3.89 acres landscaping.

Construction Phase - Construction anticipated to start no earlier than October 2021 to Q3 2023. P2 to be operational in 2023. Default timing used.

Grading - Site anticipated to balance.

Architectural Coating - SCAQMD Rule 1113 limits architectural coatings to 50g/L VOC. Architectural coatings have been mitigated to 30 g/L VOC for buildings & 100 g/L VOC for parking areas.

Vehicle Trips - Per TIA, 4.96 trips/TSF light industrial & 1,339 trips/920 TSF = 1.46 trips/TSF cultivation. Light industrial 21.4% trks (C-W) & 78.6% autos (C-NW). Industrial Park 95% autos (C-NW) & 5% trks (C-W).

Energy Use - Per applicant, Phase 2- IP ~8,272,268.8 kWh/yr & GI ~4,897,095.2 kWh/yr. Converted to kWh/sf/yr & title-24, non-title 24 & lighting based on default %.

Sequestration - Per the landscape architect, ~836 new trees to be planted on-site. Split per bldg square foot. P2 is 33% bldf sf = 276 trees.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Energy Mitigation - Natural fueled turbine power generators, chillers, solar panels on bldng rooftops & prkng shade structures. Solar to provide ~28,788,662 kWh per year for Phase 2.

Waste Mitigation -

Fleet Mix - Revised vehicle mix per TIA for Light Industrial use of 78.6% Autos, 8% 2-Axle Trucks, 3.9% 3-Axle Trucks & 9.5% 4+ Axle Trucks & industrial park (cultivation use) of 95% autos & 5% 2-axle trucks.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	30.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	30.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblEnergyUse	LightingElect	2.93	9.53
tblEnergyUse	LightingElect	3.66	11.37
tblEnergyUse	NT24E	5.02	16.37
tblEnergyUse	NT24E	2.79	8.66
tblEnergyUse	T24E	2.20	7.12
tblEnergyUse	T24E	3.07	9.51

tblFleetMix	HHD	0.07	0.10
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.55	0.49
tblFleetMix	LDA	0.55	0.59
tblFleetMix	LDT1	0.04	0.03
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.17
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LHD1	0.01	0.06
tblFleetMix	LHD1	0.01	0.04
tblFleetMix	LHD2	4.8060e-003	0.02
tblFleetMix	LHD2	4.8060e-003	0.01
tblFleetMix	MCY	4.5080e-003	3.9870e-003
tblFleetMix	MCY	4.5080e-003	4.8180e-003
tblFleetMix	MDV	0.11	0.10
tblFleetMix	MDV	0.11	0.12
tblFleetMix	MH	8.9800e-004	0.00
tblFleetMix	MH	8.9800e-004	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.4090e-003	0.00
tblFleetMix	OBUS	1.4090e-003	0.00
tblFleetMix	SBUS	9.1800e-004	0.00
tblFleetMix	SBUS	9.1800e-004	0.00
tblFleetMix	UBUS	1.1470e-003	0.00
tblFleetMix	UBUS	1.1470e-003	0.00
tblSequestration	NumberOfNewTrees	0.00	276.00

tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	78.60
tblVehicleTrips	CNW_TTP	13.00	95.00
tblVehicleTrips	CW_TTP	59.00	21.40
tblVehicleTrips	CW_TTP	59.00	5.00
tblVehicleTrips	ST_TR	1.32	4.96
tblVehicleTrips	ST_TR	2.49	1.46
tblVehicleTrips	SU_TR	0.68	4.96
tblVehicleTrips	SU_TR	0.73	1.46
tblVehicleTrips	WD_TR	6.97	4.96
tblVehicleTrips	WD_TR	6.83	1.46

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.4631	46.4416	35.2797	0.1168	8.8407	1.9864	10.8270	3.6409	1.8275	5.4683	0.0000	11,777.2336	11,777.2336	1.9467	0.0000	11,805.2612
2022	4.0987	34.0031	33.6283	0.1148	5.5849	0.8609	6.4458	1.5055	0.8098	2.3153	0.0000	11,577.9796	11,577.9796	1.0847	0.0000	11,605.0956
2023	41.4015	28.6830	32.0427	0.1119	5.5849	0.7371	6.3220	1.5055	0.6932	2.1987	0.0000	11,285.7849	11,285.7849	0.9804	0.0000	11,310.2949
Maximum	**41.4015**	**46.4416**	**35.2797**	**0.1168**	**8.8407**	**1.9864**	**10.8270**	**3.6409**	**1.8275**	**5.4683**	**0.0000**	**11,777.2336**	**11,777.2336**	**1.9467**	**0.0000**	**11,805.2612**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.4631	46.4416	35.2797	0.1168	5.5850	1.9864	6.6010	1.5055	1.8275	3.2745	0.0000	11,777.2336	11,777.2336	1.9467	0.0000	11,805.2612
2022	4.0987	34.0031	33.6283	0.1148	5.5849	0.8609	6.4458	1.5055	0.8098	2.3153	0.0000	11,577.9796	11,577.9796	1.0847	0.0000	11,605.0956
2023	41.4015	28.6830	32.0427	0.1119	5.5849	0.7371	6.3220	1.5055	0.6932	2.1987	0.0000	11,285.7849	11,285.7849	0.9804	0.0000	11,310.2949
Maximum	**41.4015**	**46.4416**	**35.2797**	**0.1168**	**5.5850**	**1.9864**	**6.6010**	**1.5055**	**1.8275**	**3.2745**	**0.0000**	**11,777.2336**	**11,777.2336**	**1.9467**	**0.0000**	**11,805.2612**

6627 DHS 109 - Phase 2 - Riverside-Salton Sea County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**16.27**	**0.00**	**17.91**	**32.10**	**0.00**	**21.98**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	12.3507	4.2000e-004	0.0457	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004		0.0980	0.0980	2.6000e-004		0.1044
Energy	0.1708	1.5531	1.3046	9.3200e-003		0.1180	0.1180		0.1180	0.1180		1,863.6807	1,863.6807	0.0357	0.0342	1,874.7556
Mobile	1.7209	10.5713	15.9223	0.0729	5.2359	0.0455	5.2814	1.4048	0.0426	1.4474		7,445.6368	7,445.6368	0.3044		7,453.2461
Total	**14.2425**	**12.1247**	**17.2726**	**0.0822**	**5.2359**	**0.1637**	**5.3996**	**1.4048**	**0.1608**	**1.5656**		**9,309.4155**	**9,309.4155**	**0.3404**	**0.0342**	**9,328.1062**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	12.3507	4.2000e-004	0.0457	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004		0.0980	0.0980	2.6000e-004		0.1044
Energy	0.1708	1.5531	1.3046	9.3200e-003		0.1180	0.1180		0.1180	0.1180		1,863.6807	1,863.6807	0.0357	0.0342	1,874.7556
Mobile	1.7500	10.8224	16.7820	0.0772	5.6024	0.0482	5.6507	1.5031	0.0452	1.5483		7,885.4433	7,885.4433	0.3137		7,893.2849
Total	**14.2715**	**12.3759**	**18.1323**	**0.0865**	**5.6024**	**0.1664**	**5.7689**	**1.5031**	**0.1634**	**1.6665**		**9,749.2220**	**9,749.2220**	**0.3496**	**0.0342**	**9,768.1449**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**-0.20**	**-2.07**	**-4.98**	**-5.25**	**-7.00**	**-1.69**	**-6.84**	**-7.00**	**-1.61**	**-6.45**	**0.00**	**-4.72**	**-4.72**	**-2.73**	**0.00**	**-4.72**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	10/1/2021	12/2/2021	5	45	
2	Building Construction	Building Construction	12/3/2021	8/10/2023	5	440	
3	Paving	Paving	8/11/2023	9/28/2023	5	35	
4	Architectural Coating	Architectural Coating	9/29/2023	11/16/2023	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 19.73

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 642,090; Non-Residential Outdoor: 214,030; Striped Parking Area: 51,566 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	541.00	211.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	108.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**		**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0780	0.0418	0.5722	1.6100e-003	0.1673	1.0200e-003	0.1684	0.0444	9.4000e-004	0.0453		160.4598	160.4598	3.8900e-003		160.5572
Total	**0.0780**	**0.0418**	**0.5722**	**1.6100e-003**	**0.1673**	**1.0200e-003**	**0.1684**	**0.0444**	**9.4000e-004**	**0.0453**		**160.4598**	**160.4598**	**3.8900e-003**		**160.5572**

3.2 Grading - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**3.3826**	**1.9853**	**5.3679**	**1.4026**	**1.8265**	**3.2292**	**0.0000**	**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0780	0.0418	0.5722	1.6100e-003	0.1673	1.0200e-003	0.1684	0.0444	9.4000e-004	0.0453		160.4598	160.4598	3.8900e-003		160.5572
Total	**0.0780**	**0.0418**	**0.5722**	**1.6100e-003**	**0.1673**	**1.0200e-003**	**0.1684**	**0.0444**	**9.4000e-004**	**0.0453**		**160.4598**	**160.4598**	**3.8900e-003**		**160.5572**

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4514	18.3166	3.2267	0.0463	1.0586	0.0299	1.0885	0.3049	0.0286	0.3335		4,883.4313	4,883.4313	0.3998		4,893.4250
Worker	2.1107	1.1309	15.4777	0.0436	4.5264	0.0275	4.5539	1.2006	0.0253	1.2259		4,340.4383	4,340.4383	0.1053		4,343.0719
Total	**2.5621**	**19.4475**	**18.7045**	**0.0899**	**5.5850**	**0.0574**	**5.6424**	**1.5055**	**0.0539**	**1.5595**		**9,223.8697**	**9,223.8697**	**0.5051**		**9,236.4969**

3.3 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4514	18.3166	3.2267	0.0463	1.0586	0.0299	1.0885	0.3049	0.0286	0.3335		4,883.4313	4,883.4313	0.3998		4,893.4250
Worker	2.1107	1.1309	15.4777	0.0436	4.5264	0.0275	4.5539	1.2006	0.0253	1.2259		4,340.4383	4,340.4383	0.1053		4,343.0719
Total	**2.5621**	**19.4475**	**18.7045**	**0.0899**	**5.5850**	**0.0574**	**5.6424**	**1.5055**	**0.0539**	**1.5595**		**9,223.8697**	**9,223.8697**	**0.5051**		**9,236.4969**

3.3 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4207	17.3703	2.9985	0.0459	1.0586	0.0251	1.0836	0.3049	0.0240	0.3289		4,841.7193	4,841.7193	0.3781		4,851.1720
Worker	1.9717	1.0171	14.2664	0.0420	4.5264	0.0268	4.5532	1.2006	0.0247	1.2253		4,181.9267	4,181.9267	0.0946		4,184.2914
Total	**2.3924**	**18.3874**	**17.2649**	**0.0879**	**5.5849**	**0.0519**	**5.6368**	**1.5055**	**0.0487**	**1.5541**		**9,023.6460**	**9,023.6460**	**0.4727**		**9,035.4634**

3.3 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4207	17.3703	2.9985	0.0459	1.0586	0.0251	1.0836	0.3049	0.0240	0.3289		4,841.7193	4,841.7193	0.3781		4,851.1720
Worker	1.9717	1.0171	14.2664	0.0420	4.5264	0.0268	4.5532	1.2006	0.0247	1.2253		4,181.9267	4,181.9267	0.0946		4,184.2914
Total	**2.3924**	**18.3874**	**17.2649**	**0.0879**	**5.5849**	**0.0519**	**5.6368**	**1.5055**	**0.0487**	**1.5541**		**9,023.6460**	**9,023.6460**	**0.4727**		**9,035.4634**

3.3 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3232	13.3814	2.6405	0.0446	1.0585	0.0112	1.0697	0.3049	0.0107	0.3156		4,707.4974	4,707.4974	0.2877		4,714.6896
Worker	1.8463	0.9167	13.1582	0.0404	4.5264	0.0262	4.5526	1.2006	0.0241	1.2247		4,023.0776	4,023.0776	0.0849		4,025.1993
Total	**2.1695**	**14.2981**	**15.7987**	**0.0850**	**5.5849**	**0.0374**	**5.6223**	**1.5055**	**0.0348**	**1.5403**		**8,730.5749**	**8,730.5749**	**0.3726**		**8,739.8889**

3.3 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3232	13.3814	2.6405	0.0446	1.0585	0.0112	1.0697	0.3049	0.0107	0.3156		4,707.4974	4,707.4974	0.2877		4,714.6896
Worker	1.8463	0.9167	13.1582	0.0404	4.5264	0.0262	4.5526	1.2006	0.0241	1.2247		4,023.0776	4,023.0776	0.0849		4,025.1993
Total	**2.1695**	**14.2981**	**15.7987**	**0.0850**	**5.5849**	**0.0374**	**5.6223**	**1.5055**	**0.0348**	**1.5403**		**8,730.5749**	**8,730.5749**	**0.3726**		**8,739.8889**

3.4 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.1064					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.1391**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**		**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0512	0.0254	0.3648	1.1200e-003	0.1255	7.3000e-004	0.1262	0.0333	6.7000e-004	0.0340		111.5456	111.5456	2.3500e-003		111.6044
Total	**0.0512**	**0.0254**	**0.3648**	**1.1200e-003**	**0.1255**	**7.3000e-004**	**0.1262**	**0.0333**	**6.7000e-004**	**0.0340**		**111.5456**	**111.5456**	**2.3500e-003**		**111.6044**

3.4 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.1064					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.1391**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**	**0.0000**	**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0512	0.0254	0.3648	1.1200e-003	0.1255	7.3000e-004	0.1262	0.0333	6.7000e-004	0.0340		111.5456	111.5456	2.3500e-003		111.6044
Total	**0.0512**	**0.0254**	**0.3648**	**1.1200e-003**	**0.1255**	**7.3000e-004**	**0.1262**	**0.0333**	**6.7000e-004**	**0.0340**		**111.5456**	**111.5456**	**2.3500e-003**		**111.6044**

3.5 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.8412					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**41.0329**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3686	0.1830	2.6268	8.0600e-003	0.9036	5.2200e-003	0.9088	0.2397	4.8100e-003	0.2445		803.1282	803.1282	0.0169		803.5518
Total	**0.3686**	**0.1830**	**2.6268**	**8.0600e-003**	**0.9036**	**5.2200e-003**	**0.9088**	**0.2397**	**4.8100e-003**	**0.2445**		**803.1282**	**803.1282**	**0.0169**		**803.5518**

3.5 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.8412					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**41.0329**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3686	0.1830	2.6268	8.0600e-003	0.9036	5.2200e-003	0.9088	0.2397	4.8100e-003	0.2445		803.1282	803.1282	0.0169		803.5518
Total	**0.3686**	**0.1830**	**2.6268**	**8.0600e-003**	**0.9036**	**5.2200e-003**	**0.9088**	**0.2397**	**4.8100e-003**	**0.2445**		**803.1282**	**803.1282**	**0.0169**		**803.5518**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.7500	10.8224	16.7820	0.0772	5.6024	0.0482	5.6507	1.5031	0.0452	1.5483		7,885.4433	7,885.4433	0.3137		7,893.2849
Unmitigated	1.7209	10.5713	15.9223	0.0729	5.2359	0.0455	5.2814	1.4048	0.0426	1.4474		7,445.6368	7,445.6368	0.3044		7,453.2461

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	734.38	734.38	734.38	1,725,599	1,846,391
Industrial Park	408.80	408.80	408.80	717,501	767,726
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	1,143.18	1,143.18	1,143.18	2,443,100	2,614,117

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	12.50	4.20	5.40	21.40	0.00	78.60	92	5	3
Industrial Park	12.50	4.20	5.40	5.00	0.00	95.00	79	19	2
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.485148	0.032057	0.165281	0.099527	0.059860	0.020140	0.039000	0.095000	0.000000	0.000000	0.003987	0.000000	0.000000
Industrial Park	0.586375	0.038746	0.199767	0.120293	0.037412	0.012588	0.000000	0.000000	0.000000	0.000000	0.004818	0.000000	0.000000
Other Asphalt Surfaces	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898
Other Non-Asphalt Surfaces	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1708	1.5531	1.3046	9.3200e-003		0.1180	0.1180		0.1180	0.1180		1,863.6807	1,863.6807	0.0357	0.0342	1,874.7556
NaturalGas Unmitigated	0.1708	1.5531	1.3046	9.3200e-003		0.1180	0.1180		0.1180	0.1180		1,863.6807	1,863.6807	0.0357	0.0342	1,874.7556

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	13179.4	0.1421	1.2921	1.0854	7.7500e-003		0.0982	0.0982		0.0982	0.0982		1,550.5139	1,550.5139	0.0297	0.0284	1,559.7278
Industrial Park	2661.92	0.0287	0.2610	0.2192	1.5700e-003		0.0198	0.0198		0.0198	0.0198		313.1668	313.1668	6.0000e-003	5.7400e-003	315.0278
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1708**	**1.5531**	**1.3046**	**9.3200e-003**		**0.1180**	**0.1180**		**0.1180**	**0.1180**		**1,863.6807**	**1,863.6807**	**0.0357**	**0.0342**	**1,874.7556**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	13.1794	0.1421	1.2921	1.0854	7.7500e-003		0.0982	0.0982		0.0982	0.0982		1,550.5139	1,550.5139	0.0297	0.0284	1,559.7278
Industrial Park	2.66192	0.0287	0.2610	0.2192	1.5700e-003		0.0198	0.0198		0.0198	0.0198		313.1668	313.1668	6.0000e-003	5.7400e-003	315.0278
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1708**	**1.5531**	**1.3046**	**9.3200e-003**		**0.1180**	**0.1180**		**0.1180**	**0.1180**		**1,863.6807**	**1,863.6807**	**0.0357**	**0.0342**	**1,874.7556**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	12.3507	4.2000e-004	0.0457	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004		0.0980	0.0980	2.6000e-004		0.1044
Unmitigated	12.3507	4.2000e-004	0.0457	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004		0.0980	0.0980	2.6000e-004		0.1044

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.8816					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.4649					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.2300e-003	4.2000e-004	0.0457	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004		0.0980	0.0980	2.6000e-004		0.1044
Total	**12.3507**	**4.2000e-004**	**0.0457**	**0.0000**		**1.6000e-004**	**1.6000e-004**		**1.6000e-004**	**1.6000e-004**		**0.0980**	**0.0980**	**2.6000e-004**		**0.1044**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.8816					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.4649					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.2300e-003	4.2000e-004	0.0457	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004		0.0980	0.0980	2.6000e-004		0.1044
Total	**12.3507**	**4.2000e-004**	**0.0457**	**0.0000**		**1.6000e-004**	**1.6000e-004**		**1.6000e-004**	**1.6000e-004**		**0.0980**	**0.0980**	**2.6000e-004**		**0.1044**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

6627 DHS 109 - Phase 2

Riverside-Salton Sea County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	148.06	1000sqft	3.40	148,060.00	0
Industrial Park	280.00	1000sqft	6.43	280,000.00	0
Other Asphalt Surfaces	14.78	Acre	14.78	643,816.80	0
Other Non-Asphalt Surfaces	1.06	Acre	1.06	46,173.60	0
Other Non-Asphalt Surfaces	3.89	Acre	3.89	169,448.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

6627 DHS 109 - Phase 2 - Riverside-Salton Sea County, Winter

Project Characteristics -

Land Use - Phase 2- 29.56 ac w/ 428,060 sf bldgs (65.41% cultivation = 280,000sf), 46,217 sf (~1.06 ac) basins, ~50% P2 paving prkg/on-site rdwys (=~14.78ac), & remainder 3.89 acres landscaping.

Construction Phase - Construction anticipated to start no earlier than October 2021 to Q3 2023. P2 to be operational in 2023. Default timing used.

Grading - Site anticipated to balance.

Architectural Coating - SCAQMD Rule 1113 limits architectural coatings to 50g/L VOC. Architectural coatings have been mitigated to 30 g/L VOC for buildings & 100 g/L VOC for parking areas.

Vehicle Trips - Per TIA, 4.96 trips/TSF light industrial & 1,339 trips/920 TSF = 1.46 trips/TSF cultivation. Light industrial 21.4% trks (C-W) & 78.6% autos (C-NW). Industrial Park 95% autos (C-NW) & 5% trks (C-W).

Energy Use - Per applicant, Phase 2- IP ~8,272,268.8 kWh/yr & GI ~4,897,095.2 kWh/yr. Converted to kWh/sf/yr & title-24, non-title 24 & lighting based on default %.

Sequestration - Per the landscape architect, ~836 new trees to be planted on-site. Split per bldg square foot. P2 is 33% bldf sf = 276 trees.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Energy Mitigation - Natural fueled turbine power generators, chillers, solar panels on bldng rooftops & prkng shade structures. Solar to provide ~28,788,662 kWh per year for Phase 2.

Waste Mitigation -

Fleet Mix - Revised vehicle mix per TIA for Light Industrial use of 78.6% Autos, 8% 2-Axle Trucks, 3.9% 3-Axle Trucks & 9.5% 4+ Axle Trucks & industrial park (cultivation use) of 95% autos & 5% 2-axle trucks.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	30.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	30.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblEnergyUse	LightingElect	2.93	9.53
tblEnergyUse	LightingElect	3.66	11.37
tblEnergyUse	NT24E	5.02	16.37
tblEnergyUse	NT24E	2.79	8.66
tblEnergyUse	T24E	2.20	7.12
tblEnergyUse	T24E	3.07	9.51

tblFleetMix	HHD	0.07	0.10
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.55	0.49
tblFleetMix	LDA	0.55	0.59
tblFleetMix	LDT1	0.04	0.03
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.17
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LHD1	0.01	0.06
tblFleetMix	LHD1	0.01	0.04
tblFleetMix	LHD2	4.8060e-003	0.02
tblFleetMix	LHD2	4.8060e-003	0.01
tblFleetMix	MCY	4.5080e-003	3.9870e-003
tblFleetMix	MCY	4.5080e-003	4.8180e-003
tblFleetMix	MDV	0.11	0.10
tblFleetMix	MDV	0.11	0.12
tblFleetMix	MH	8.9800e-004	0.00
tblFleetMix	MH	8.9800e-004	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.4090e-003	0.00
tblFleetMix	OBUS	1.4090e-003	0.00
tblFleetMix	SBUS	9.1800e-004	0.00
tblFleetMix	SBUS	9.1800e-004	0.00
tblFleetMix	UBUS	1.1470e-003	0.00
tblFleetMix	UBUS	1.1470e-003	0.00
tblSequestration	NumberOfNewTrees	0.00	276.00

tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	78.60
tblVehicleTrips	CNW_TTP	13.00	95.00
tblVehicleTrips	CW_TTP	59.00	21.40
tblVehicleTrips	CW_TTP	59.00	5.00
tblVehicleTrips	ST_TR	1.32	4.96
tblVehicleTrips	ST_TR	2.49	1.46
tblVehicleTrips	SU_TR	0.68	4.96
tblVehicleTrips	SU_TR	0.73	1.46
tblVehicleTrips	WD_TR	6.97	4.96
tblVehicleTrips	WD_TR	6.83	1.46

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.4037	46.4431	33.1023	0.1103	8.8407	1.9864	10.8270	3.6409	1.8275	5.4683	0.0000	11,115.8429	11,115.8429	1.9462	0.0000	11,144.7237
2022	4.0490	33.7974	31.6206	0.1084	5.5849	0.8619	6.4468	1.5055	0.8108	2.3163	0.0000	10,933.6507	10,933.6507	1.1181	0.0000	10,961.6036
2023	41.3878	28.4995	30.0564	0.1058	5.5849	0.7376	6.3225	1.5055	0.6937	2.1991	0.0000	10,667.0181	10,667.0181	1.0026	0.0000	10,692.0833
Maximum	**41.3878**	**46.4431**	**33.1023**	**0.1103**	**8.8407**	**1.9864**	**10.8270**	**3.6409**	**1.8275**	**5.4683**	**0.0000**	**11,115.8429**	**11,115.8429**	**1.9462**	**0.0000**	**11,144.7237**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.4037	46.4431	33.1023	0.1103	5.5850	1.9864	6.6021	1.5055	1.8275	3.2745	0.0000	11,115.8429	11,115.8429	1.9462	0.0000	11,144.7237
2022	4.0490	33.7974	31.6206	0.1084	5.5849	0.8619	6.4468	1.5055	0.8108	2.3163	0.0000	10,933.6507	10,933.6507	1.1181	0.0000	10,961.6036
2023	41.3878	28.4995	30.0564	0.1058	5.5849	0.7376	6.3225	1.5055	0.6937	2.1991	0.0000	10,667.0181	10,667.0181	1.0026	0.0000	10,692.0833
Maximum	**41.3878**	**46.4431**	**33.1023**	**0.1103**	**5.5850**	**1.9864**	**6.6021**	**1.5055**	**1.8275**	**3.2745**	**0.0000**	**11,115.8429**	**11,115.8429**	**1.9462**	**0.0000**	**11,144.7237**

6627 DHS 109 - Phase 2 - Riverside-Salton Sea County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**16.27**	**0.00**	**17.90**	**32.10**	**0.00**	**21.97**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	12.3507	4.2000e-004	0.0457	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004		0.0980	0.0980	2.6000e-004		0.1044
Energy	0.1708	1.5531	1.3046	9.3200e-003		0.1180	0.1180		0.1180	0.1180		1,863.6807	1,863.6807	0.0357	0.0342	1,874.7556
Mobile	1.4453	10.5534	14.1983	0.0676	5.2359	0.0458	5.2817	1.4048	0.0429	1.4477		6,912.6380	6,912.6380	0.3180		6,920.5869
Total	**13.9669**	**12.1069**	**15.5486**	**0.0769**	**5.2359**	**0.1640**	**5.3999**	**1.4048**	**0.1611**	**1.5659**		**8,776.4168**	**8,776.4168**	**0.3539**	**0.0342**	**8,795.4469**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	12.3507	4.2000e-004	0.0457	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004		0.0980	0.0980	2.6000e-004		0.1044
Energy	0.1708	1.5531	1.3046	9.3200e-003		0.1180	0.1180		0.1180	0.1180		1,863.6807	1,863.6807	0.0357	0.0342	1,874.7556
Mobile	1.4727	10.8167	14.8909	0.0717	5.6024	0.0485	5.6510	1.5031	0.0455	1.5486		7,324.5901	7,324.5901	0.3265		7,332.7538
Total	**13.9943**	**12.3702**	**16.2412**	**0.0810**	**5.6024**	**0.1667**	**5.7692**	**1.5031**	**0.1637**	**1.6668**		**9,188.3688**	**9,188.3688**	**0.3625**	**0.0342**	**9,207.6138**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**-0.20**	**-2.18**	**-4.45**	**-5.25**	**-7.00**	**-1.68**	**-6.84**	**-7.00**	**-1.61**	**-6.45**	**0.00**	**-4.69**	**-4.69**	**-2.43**	**0.00**	**-4.69**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	10/1/2021	12/2/2021	5	45	
2	Building Construction	Building Construction	12/3/2021	8/10/2023	5	440	
3	Paving	Paving	8/11/2023	9/28/2023	5	35	
4	Architectural Coating	Architectural Coating	9/29/2023	11/16/2023	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 19.73

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 642,090; Non-Residential Outdoor: 214,030; Striped Parking Area: 51,566 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	541.00	211.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	108.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**		**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0747	0.0432	0.4680	1.4500e-003	0.1673	1.0200e-003	0.1684	0.0444	9.4000e-004	0.0453		144.0262	144.0262	3.4100e-003		144.1115
Total	**0.0747**	**0.0432**	**0.4680**	**1.4500e-003**	**0.1673**	**1.0200e-003**	**0.1684**	**0.0444**	**9.4000e-004**	**0.0453**		**144.0262**	**144.0262**	**3.4100e-003**		**144.1115**

3.2 Grading - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**3.3826**	**1.9853**	**5.3679**	**1.4026**	**1.8265**	**3.2292**	**0.0000**	**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0747	0.0432	0.4680	1.4500e-003	0.1673	1.0200e-003	0.1684	0.0444	9.4000e-004	0.0453		144.0262	144.0262	3.4100e-003		144.1115
Total	**0.0747**	**0.0432**	**0.4680**	**1.4500e-003**	**0.1673**	**1.0200e-003**	**0.1684**	**0.0444**	**9.4000e-004**	**0.0453**		**144.0262**	**144.0262**	**3.4100e-003**		**144.1115**

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4817	18.0843	3.8667	0.0443	1.0586	0.0310	1.0896	0.3049	0.0297	0.3346		4,666.5697	4,666.5697	0.4469		4,677.7423
Worker	2.0210	1.1696	12.6604	0.0391	4.5264	0.0275	4.5539	1.2006	0.0253	1.2259		3,895.9093	3,895.9093	0.0923		3,898.2171
Total	**2.5028**	**19.2540**	**16.5271**	**0.0834**	**5.5850**	**0.0585**	**5.6435**	**1.5055**	**0.0550**	**1.5605**		**8,562.4790**	**8,562.4790**	**0.5392**		**8,575.9594**

3.3 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4817	18.0843	3.8667	0.0443	1.0586	0.0310	1.0896	0.3049	0.0297	0.3346		4,666.5697	4,666.5697	0.4469		4,677.7423
Worker	2.0210	1.1696	12.6604	0.0391	4.5264	0.0275	4.5539	1.2006	0.0253	1.2259		3,895.9093	3,895.9093	0.0923		3,898.2171
Total	**2.5028**	**19.2540**	**16.5271**	**0.0834**	**5.5850**	**0.0585**	**5.6435**	**1.5055**	**0.0550**	**1.5605**		**8,562.4790**	**8,562.4790**	**0.5392**		**8,575.9594**

3.3 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4496	17.1302	3.6075	0.0439	1.0586	0.0261	1.0846	0.3049	0.0250	0.3298		4,625.4856	4,625.4856	0.4232		4,636.0659
Worker	1.8932	1.0516	11.6497	0.0377	4.5264	0.0268	4.5532	1.2006	0.0247	1.2253		3,753.8315	3,753.8315	0.0830		3,755.9056
Total	**2.3428**	**18.1817**	**15.2572**	**0.0815**	**5.5849**	**0.0529**	**5.6378**	**1.5055**	**0.0496**	**1.5551**		**8,379.3171**	**8,379.3171**	**0.5062**		**8,391.9714**

3.3 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4496	17.1302	3.6075	0.0439	1.0586	0.0261	1.0846	0.3049	0.0250	0.3298		4,625.4856	4,625.4856	0.4232		4,636.0659
Worker	1.8932	1.0516	11.6497	0.0377	4.5264	0.0268	4.5532	1.2006	0.0247	1.2253		3,753.8315	3,753.8315	0.0830		3,755.9056
Total	**2.3428**	**18.1817**	**15.2572**	**0.0815**	**5.5849**	**0.0529**	**5.6378**	**1.5055**	**0.0496**	**1.5551**		**8,379.3171**	**8,379.3171**	**0.5062**		**8,391.9714**

3.3 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3438	13.1673	3.0850	0.0426	1.0585	0.0117	1.0702	0.3049	0.0112	0.3160		4,500.3605	4,500.3605	0.3202		4,508.3663
Worker	1.7780	0.9473	10.7274	0.0362	4.5264	0.0262	4.5526	1.2006	0.0241	1.2247		3,611.4476	3,611.4476	0.0745		3,613.3110
Total	**2.1218**	**14.1146**	**13.8124**	**0.0789**	**5.5849**	**0.0378**	**5.6227**	**1.5055**	**0.0352**	**1.5407**		**8,111.8081**	**8,111.8081**	**0.3948**		**8,121.6772**

3.3 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3438	13.1673	3.0850	0.0426	1.0585	0.0117	1.0702	0.3049	0.0112	0.3160		4,500.3605	4,500.3605	0.3202		4,508.3663
Worker	1.7780	0.9473	10.7274	0.0362	4.5264	0.0262	4.5526	1.2006	0.0241	1.2247		3,611.4476	3,611.4476	0.0745		3,613.3110
Total	**2.1218**	**14.1146**	**13.8124**	**0.0789**	**5.5849**	**0.0378**	**5.6227**	**1.5055**	**0.0352**	**1.5407**		**8,111.8081**	**8,111.8081**	**0.3948**		**8,121.6772**

3.4 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.1064					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.1391**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**		**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0493	0.0263	0.2974	1.0000e-003	0.1255	7.3000e-004	0.1262	0.0333	6.7000e-004	0.0340		100.1326	100.1326	2.0700e-003		100.1842
Total	**0.0493**	**0.0263**	**0.2974**	**1.0000e-003**	**0.1255**	**7.3000e-004**	**0.1262**	**0.0333**	**6.7000e-004**	**0.0340**		**100.1326**	**100.1326**	**2.0700e-003**		**100.1842**

3.4 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	1.1064					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.1391**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**	**0.0000**	**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0493	0.0263	0.2974	1.0000e-003	0.1255	7.3000e-004	0.1262	0.0333	6.7000e-004	0.0340		100.1326	100.1326	2.0700e-003		100.1842
Total	**0.0493**	**0.0263**	**0.2974**	**1.0000e-003**	**0.1255**	**7.3000e-004**	**0.1262**	**0.0333**	**6.7000e-004**	**0.0340**		**100.1326**	**100.1326**	**2.0700e-003**		**100.1842**

3.5 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.8412					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**41.0329**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3549	0.1891	2.1415	7.2300e-003	0.9036	5.2200e-003	0.9088	0.2397	4.8100e-003	0.2445		720.9544	720.9544	0.0149		721.3264
Total	**0.3549**	**0.1891**	**2.1415**	**7.2300e-003**	**0.9036**	**5.2200e-003**	**0.9088**	**0.2397**	**4.8100e-003**	**0.2445**		**720.9544**	**720.9544**	**0.0149**		**721.3264**

3.5 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.8412					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**41.0329**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3549	0.1891	2.1415	7.2300e-003	0.9036	5.2200e-003	0.9088	0.2397	4.8100e-003	0.2445		720.9544	720.9544	0.0149		721.3264
Total	**0.3549**	**0.1891**	**2.1415**	**7.2300e-003**	**0.9036**	**5.2200e-003**	**0.9088**	**0.2397**	**4.8100e-003**	**0.2445**		**720.9544**	**720.9544**	**0.0149**		**721.3264**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.4727	10.8167	14.8909	0.0717	5.6024	0.0485	5.6510	1.5031	0.0455	1.5486		7,324.5901	7,324.5901	0.3265		7,332.7538
Unmitigated	1.4453	10.5534	14.1983	0.0676	5.2359	0.0458	5.2817	1.4048	0.0429	1.4477		6,912.6380	6,912.6380	0.3180		6,920.5869

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	734.38	734.38	734.38	1,725,599	1,846,391
Industrial Park	408.80	408.80	408.80	717,501	767,726
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	1,143.18	1,143.18	1,143.18	2,443,100	2,614,117

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	12.50	4.20	5.40	21.40	0.00	78.60	92	5	3
Industrial Park	12.50	4.20	5.40	5.00	0.00	95.00	79	19	2
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.485148	0.032057	0.165281	0.099527	0.059860	0.020140	0.039000	0.095000	0.000000	0.000000	0.003987	0.000000	0.000000
Industrial Park	0.586375	0.038746	0.199767	0.120293	0.037412	0.012588	0.000000	0.000000	0.000000	0.000000	0.004818	0.000000	0.000000
Other Asphalt Surfaces	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898
Other Non-Asphalt Surfaces	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1708	1.5531	1.3046	9.3200e-003		0.1180	0.1180		0.1180	0.1180		1,863.6807	1,863.6807	0.0357	0.0342	1,874.7556
NaturalGas Unmitigated	0.1708	1.5531	1.3046	9.3200e-003		0.1180	0.1180		0.1180	0.1180		1,863.6807	1,863.6807	0.0357	0.0342	1,874.7556

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	13179.4	0.1421	1.2921	1.0854	7.7500e-003		0.0982	0.0982		0.0982	0.0982		1,550.5139	1,550.5139	0.0297	0.0284	1,559.7278
Industrial Park	2661.92	0.0287	0.2610	0.2192	1.5700e-003		0.0198	0.0198		0.0198	0.0198		313.1668	313.1668	6.0000e-003	5.7400e-003	315.0278
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1708**	**1.5531**	**1.3046**	**9.3200e-003**		**0.1180**	**0.1180**		**0.1180**	**0.1180**		**1,863.6807**	**1,863.6807**	**0.0357**	**0.0342**	**1,874.7556**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	13.1794	0.1421	1.2921	1.0854	7.7500e-003		0.0982	0.0982		0.0982	0.0982		1,550.5139	1,550.5139	0.0297	0.0284	1,559.7278
Industrial Park	2.66192	0.0287	0.2610	0.2192	1.5700e-003		0.0198	0.0198		0.0198	0.0198		313.1668	313.1668	6.0000e-003	5.7400e-003	315.0278
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1708**	**1.5531**	**1.3046**	**9.3200e-003**		**0.1180**	**0.1180**		**0.1180**	**0.1180**		**1,863.6807**	**1,863.6807**	**0.0357**	**0.0342**	**1,874.7556**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	12.3507	4.2000e-004	0.0457	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004		0.0980	0.0980	2.6000e-004		0.1044
Unmitigated	12.3507	4.2000e-004	0.0457	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004		0.0980	0.0980	2.6000e-004		0.1044

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.8816					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.4649					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.2300e-003	4.2000e-004	0.0457	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004		0.0980	0.0980	2.6000e-004		0.1044
Total	**12.3507**	**4.2000e-004**	**0.0457**	**0.0000**		**1.6000e-004**	**1.6000e-004**		**1.6000e-004**	**1.6000e-004**		**0.0980**	**0.0980**	**2.6000e-004**		**0.1044**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.8816					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.4649					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.2300e-003	4.2000e-004	0.0457	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004		0.0980	0.0980	2.6000e-004		0.1044
Total	**12.3507**	**4.2000e-004**	**0.0457**	**0.0000**		**1.6000e-004**	**1.6000e-004**		**1.6000e-004**	**1.6000e-004**		**0.0980**	**0.0980**	**2.6000e-004**		**0.1044**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

6627 DHS 109 - Phase 3

Riverside-Salton Sea County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	74.03	1000sqft	1.70	74,030.00	0
Industrial Park	140.00	1000sqft	3.21	140,000.00	0
Other Asphalt Surfaces	7.99	Acre	7.99	348,044.40	0
Other Non-Asphalt Surfaces	3.08	Acre	3.08	134,164.80	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

6627 DHS 109 - Phase 3 - Riverside-Salton Sea County, Summer

Project Characteristics -

Land Use - Phase 3 is 15.98 ac w/ 214,030 sf bldgs (65.41% cultivation - 140,000 sf), ~50% P3 paving prkg/on-site rdwys (=~7.99 ac), & remainder 3.08 acres landscaping.

Construction Phase - Construction anticipated to start no earlier than October 2023 and be completed by Q4 2025. P3 to be operational in 2025.

Off-road Equipment - Building Construction Phase CalEEMod defautl timing cut in half, equipment has been doubled.

Off-road Equipment -

Grading - Site anticipated to balance.

Architectural Coating - SCAQMD Rule 1113 limits architectural coatings to 50g/L VOC. Architectural coatings have been mitigated to 30 g/L VOC for buildings & 100 g/L VOC for parking areas.

Vehicle Trips - Per TIA, 4.96 trips/TSF light industrial & 1,339 trips/920 TSF = 1.46 trips/TSF cultivation. Light industrial 21.4% trks (C-W) & 78.6% autos (CNW). Industrial Park 95% autos (C-NW) & 5% trks (C-W).

Energy Use - Per applicant, Phase 3- IP ~23,229,377.3 kWh/yr & GI ~2,448,547.6 kWh/yr. Converted to kWh/sf/yr & title-24, non-title 24 & lighting based on default %.

Sequestration - Per the landscape architect, ~836 new trees to be planted on-site. Split per bldg square foot. P3 is 17% bldf sf = 142 trees.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Energy Mitigation - Natural fueled turbine power generators, chillers, solar panels on bldng rooftops & prkng shade structures. Solar to provide ~14,394,331 kWh per year for Phase 3.

Waste Mitigation -

Fleet Mix - Revised vehicle mix per TIA for Light Industrial use of 78.6% Autos, 8% 2-Axle Trucks, 3.9% 3-Axle Trucks & 9.5% 4+ Axle Trucks & cultivation use o 95% autos & 5% 2-axle trucks.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	30.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	30.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	28.00
tblConstructionPhase	NumDays	300.00	424.00
tblConstructionPhase	NumDays	30.00	42.00
tblConstructionPhase	NumDays	20.00	28.00

tblEnergyUse	LightingElect	2.93	9.53
tblEnergyUse	LightingElect	3.66	11.37
tblEnergyUse	NT24E	5.02	16.37
tblEnergyUse	NT24E	2.79	8.66
tblEnergyUse	T24E	2.20	7.18
tblEnergyUse	T24E	3.07	9.51
tblFleetMix	HHD	0.07	0.10
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.55	0.49
tblFleetMix	LDA	0.55	0.59
tblFleetMix	LDT1	0.04	0.03
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.17
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LHD1	0.01	0.06
tblFleetMix	LHD1	0.01	0.04
tblFleetMix	LHD2	4.5300e-003	0.02
tblFleetMix	LHD2	4.5300e-003	0.01
tblFleetMix	MCY	4.4460e-003	3.9220e-003
tblFleetMix	MCY	4.4460e-003	4.7400e-003
tblFleetMix	MDV	0.11	0.10
tblFleetMix	MDV	0.11	0.12
tblFleetMix	MH	7.8900e-004	0.00
tblFleetMix	MH	7.8900e-004	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.4150e-003	0.00

tblFleetMix	OBUS	1.4150e-003	0.00
tblFleetMix	SBUS	8.9200e-004	0.00
tblFleetMix	SBUS	8.9200e-004	0.00
tblFleetMix	UBUS	1.1230e-003	0.00
tblFleetMix	UBUS	1.1230e-003	0.00
tblSequestration	NumberOfNewTrees	0.00	142.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	78.60
tblVehicleTrips	CNW_TTP	13.00	95.00
tblVehicleTrips	CW_TTP	59.00	21.40
tblVehicleTrips	CW_TTP	59.00	5.00
tblVehicleTrips	ST_TR	1.32	4.96
tblVehicleTrips	ST_TR	2.49	1.46
tblVehicleTrips	SU_TR	0.68	4.96
tblVehicleTrips	SU_TR	0.73	1.46
tblVehicleTrips	WD_TR	6.97	4.96
tblVehicleTrips	WD_TR	6.83	1.46

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	3.3900	34.5495	28.5376	0.0728	8.8407	1.4255	10.2661	3.6409	1.3114	4.9523	0.0000	7,270.0179	7,270.0179	1.9474	0.0000	7,290.2451
2024	2.5801	21.0841	24.1944	0.0719	3.0150	0.6333	3.6483	0.8127	0.5955	1.4082	0.0000	7,181.3435	7,181.3435	0.7980	0.0000	7,201.2926
2025	26.3939	20.0000	23.5812	0.0709	3.0149	0.5472	3.5622	0.8127	0.5146	1.3273	0.0000	7,080.5657	7,080.5657	0.7866	0.0000	7,100.2305
Maximum	**26.3939**	**34.5495**	**28.5376**	**0.0728**	**8.8407**	**1.4255**	**10.2661**	**3.6409**	**1.3114**	**4.9523**	**0.0000**	**7,270.0179**	**7,270.0179**	**1.9474**	**0.0000**	**7,290.2451**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	3.3900	34.5495	28.5376	0.0728	3.5499	1.4255	4.9754	1.4470	1.3114	2.7584	0.0000	7,270.0179	7,270.0179	1.9474	0.0000	7,290.2451
2024	2.5801	21.0841	24.1944	0.0719	3.0150	0.6333	3.6483	0.8127	0.5955	1.4082	0.0000	7,181.3435	7,181.3435	0.7980	0.0000	7,201.2926
2025	26.3939	20.0000	23.5812	0.0709	3.0149	0.5472	3.5622	0.8127	0.5146	1.3273	0.0000	7,080.5657	7,080.5657	0.7866	0.0000	7,100.2305
Maximum	**26.3939**	**34.5495**	**28.5376**	**0.0728**	**3.5499**	**1.4255**	**4.9754**	**1.4470**	**1.3114**	**2.7584**	**0.0000**	**7,270.0179**	**7,270.0179**	**1.9474**	**0.0000**	**7,290.2451**

6627 DHS 109 - Phase 3 - Riverside-Salton Sea County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	35.58	0.00	30.27	41.66	0.00	28.54	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.2040	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0493	0.0493	1.3000e-004		0.0525
Energy	0.0854	0.7765	0.6523	4.6600e-003		0.0590	0.0590		0.0590	0.0590		931.8404	931.8404	0.0179	0.0171	937.3778
Mobile	0.7732	4.9661	7.0373	0.0346	2.6181	0.0218	2.6398	0.7024	0.0204	0.7228		3,543.1104	3,543.1104	0.1404		3,546.6195
Total	**7.0625**	**5.7428**	**7.7125**	**0.0393**	**2.6181**	**0.0809**	**2.6989**	**0.7024**	**0.0795**	**0.7819**		**4,475.0000**	**4,475.0000**	**0.1584**	**0.0171**	**4,484.0498**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.2040	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0493	0.0493	1.3000e-004		0.0525
Energy	0.0854	0.7765	0.6523	4.6600e-003		0.0590	0.0590		0.0590	0.0590		931.8404	931.8404	0.0179	0.0171	937.3778
Mobile	0.7732	4.9661	7.0373	0.0346	2.6181	0.0218	2.6398	0.7024	0.0204	0.7228		3,543.1104	3,543.1104	0.1404		3,546.6195
Total	**7.0625**	**5.7428**	**7.7125**	**0.0393**	**2.6181**	**0.0809**	**2.6989**	**0.7024**	**0.0795**	**0.7819**		**4,475.0000**	**4,475.0000**	**0.1584**	**0.0171**	**4,484.0498**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	10/1/2023	11/28/2023	5	42	
2	Building Construction	Building Construction	11/29/2023	7/14/2025	5	424	
3	Paving	Paving	7/15/2025	8/21/2025	5	28	
4	Architectural Coating	Architectural Coating	8/22/2025	9/30/2025	5	28	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 105

Acres of Paving: 11.07

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 321,045; Non-Residential Outdoor: 107,015; Striped Parking Area: 28,933 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	292.00	114.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	58.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**8.6733**	**1.4245**	**10.0978**	**3.5965**	**1.3105**	**4.9070**		**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0683	0.0339	0.4864	1.4900e-003	0.1673	9.7000e-004	0.1683	0.0444	8.9000e-004	0.0453		148.7275	148.7275	3.1400e-003		148.8059
Total	**0.0683**	**0.0339**	**0.4864**	**1.4900e-003**	**0.1673**	**9.7000e-004**	**0.1683**	**0.0444**	**8.9000e-004**	**0.0453**		**148.7275**	**148.7275**	**3.1400e-003**		**148.8059**

3.2 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**3.3826**	**1.4245**	**4.8071**	**1.4026**	**1.3105**	**2.7132**	**0.0000**	**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0683	0.0339	0.4864	1.4900e-003	0.1673	9.7000e-004	0.1683	0.0444	8.9000e-004	0.0453		148.7275	148.7275	3.1400e-003		148.8059
Total	**0.0683**	**0.0339**	**0.4864**	**1.4900e-003**	**0.1673**	**9.7000e-004**	**0.1683**	**0.0444**	**8.9000e-004**	**0.0453**		**148.7275**	**148.7275**	**3.1400e-003**		**148.8059**

3.3 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1746	7.2297	1.4266	0.0241	0.5719	6.0600e-003	0.5780	0.1647	5.7900e-003	0.1705		2,543.3872	2,543.3872	0.1554		2,547.2730
Worker	0.9965	0.4948	7.1020	0.0218	2.4431	0.0141	2.4572	0.6480	0.0130	0.6610		2,171.4208	2,171.4208	0.0458		2,172.5660
Total	**1.1711**	**7.7245**	**8.5286**	**0.0459**	**3.0150**	**0.0202**	**3.0352**	**0.8127**	**0.0188**	**0.8315**		**4,714.8080**	**4,714.8080**	**0.2012**		**4,719.8390**

3.3 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1746	7.2297	1.4266	0.0241	0.5719	6.0600e-003	0.5780	0.1647	5.7900e-003	0.1705		2,543.3872	2,543.3872	0.1554		2,547.2730
Worker	0.9965	0.4948	7.1020	0.0218	2.4431	0.0141	2.4572	0.6480	0.0130	0.6610		2,171.4208	2,171.4208	0.0458		2,172.5660
Total	**1.1711**	**7.7245**	**8.5286**	**0.0459**	**3.0150**	**0.0202**	**3.0352**	**0.8127**	**0.0188**	**0.8315**		**4,714.8080**	**4,714.8080**	**0.2012**		**4,719.8390**

3.3 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**		**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1708	7.1919	1.3741	0.0240	0.5719	6.0200e-003	0.5779	0.1647	5.7500e-003	0.1705		2,531.7405	2,531.7405	0.1519		2,535.5373
Worker	0.9377	0.4484	6.6535	0.0210	2.4431	0.0140	2.4571	0.6480	0.0129	0.6609		2,093.9041	2,093.9041	0.0418		2,094.9477
Total	**1.1085**	**7.6403**	**8.0276**	**0.0450**	**3.0150**	**0.0200**	**3.0349**	**0.8127**	**0.0186**	**0.8313**		**4,625.6446**	**4,625.6446**	**0.1936**		**4,630.4850**

3.3 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1708	7.1919	1.3741	0.0240	0.5719	6.0200e-003	0.5779	0.1647	5.7500e-003	0.1705		2,531.7405	2,531.7405	0.1519		2,535.5373
Worker	0.9377	0.4484	6.6535	0.0210	2.4431	0.0140	2.4571	0.6480	0.0129	0.6609		2,093.9041	2,093.9041	0.0418		2,094.9477
Total	**1.1085**	**7.6403**	**8.0276**	**0.0450**	**3.0150**	**0.0200**	**3.0349**	**0.8127**	**0.0186**	**0.8313**		**4,625.6446**	**4,625.6446**	**0.1936**		**4,630.4850**

3.3 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1662	7.1222	1.3253	0.0238	0.5719	5.9400e-003	0.5778	0.1647	5.6800e-003	0.1704		2,514.0707	2,514.0707	0.1478		2,517.7661
Worker	0.8850	0.4081	6.1713	0.0202	2.4431	0.0137	2.4568	0.6480	0.0126	0.6606		2,010.0207	2,010.0207	0.0378		2,010.9664
Total	**1.0512**	**7.5303**	**7.4966**	**0.0440**	**3.0149**	**0.0197**	**3.0346**	**0.8127**	**0.0183**	**0.8310**		**4,524.0914**	**4,524.0914**	**0.1857**		**4,528.7325**

3.3 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1662	7.1222	1.3253	0.0238	0.5719	5.9400e-003	0.5778	0.1647	5.6800e-003	0.1704		2,514.0707	2,514.0707	0.1478		2,517.7661
Worker	0.8850	0.4081	6.1713	0.0202	2.4431	0.0137	2.4568	0.6480	0.0126	0.6606		2,010.0207	2,010.0207	0.0378		2,010.9664
Total	**1.0512**	**7.5303**	**7.4966**	**0.0440**	**3.0149**	**0.0197**	**3.0346**	**0.8127**	**0.0183**	**0.8310**		**4,524.0914**	**4,524.0914**	**0.1857**		**4,528.7325**

3.4 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.7476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.6628**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**		**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0455	0.0210	0.3170	1.0400e-003	0.1255	7.1000e-004	0.1262	0.0333	6.5000e-004	0.0339		103.2545	103.2545	1.9400e-003		103.3031
Total	**0.0455**	**0.0210**	**0.3170**	**1.0400e-003**	**0.1255**	**7.1000e-004**	**0.1262**	**0.0333**	**6.5000e-004**	**0.0339**		**103.2545**	**103.2545**	**1.9400e-003**		**103.3031**

3.4 Paving - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.7476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.6628**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0455	0.0210	0.3170	1.0400e-003	0.1255	7.1000e-004	0.1262	0.0333	6.5000e-004	0.0339		103.2545	103.2545	1.9400e-003		103.3031
Total	**0.0455**	**0.0210**	**0.3170**	**1.0400e-003**	**0.1255**	**7.1000e-004**	**0.1262**	**0.0333**	**6.5000e-004**	**0.0339**		**103.2545**	**103.2545**	**1.9400e-003**		**103.3031**

3.5 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	26.0472					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**26.2181**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1758	0.0811	1.2258	4.0000e-003	0.4853	2.7300e-003	0.4880	0.1287	2.5100e-003	0.1312		399.2507	399.2507	7.5100e-003		399.4385
Total	**0.1758**	**0.0811**	**1.2258**	**4.0000e-003**	**0.4853**	**2.7300e-003**	**0.4880**	**0.1287**	**2.5100e-003**	**0.1312**		**399.2507**	**399.2507**	**7.5100e-003**		**399.4385**

3.5 Architectural Coating - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	26.0472					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**26.2181**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1758	0.0811	1.2258	4.0000e-003	0.4853	2.7300e-003	0.4880	0.1287	2.5100e-003	0.1312		399.2507	399.2507	7.5100e-003		399.4385
Total	**0.1758**	**0.0811**	**1.2258**	**4.0000e-003**	**0.4853**	**2.7300e-003**	**0.4880**	**0.1287**	**2.5100e-003**	**0.1312**		**399.2507**	**399.2507**	**7.5100e-003**		**399.4385**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7732	4.9661	7.0373	0.0346	2.6181	0.0218	2.6398	0.7024	0.0204	0.7228		3,543.1104	3,543.1104	0.1404		3,546.6195
Unmitigated	0.7732	4.9661	7.0373	0.0346	2.6181	0.0218	2.6398	0.7024	0.0204	0.7228		3,543.1104	3,543.1104	0.1404		3,546.6195

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	367.19	367.19	367.19	862,800	862,800
Industrial Park	204.40	204.40	204.40	358,751	358,751
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	571.59	571.59	571.59	1,221,550	1,221,550

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	12.50	4.20	5.40	21.40	0.00	78.60	92	5	3
Industrial Park	12.50	4.20	5.40	5.00	0.00	95.00	79	19	2
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.488980	0.031205	0.166473	0.095420	0.058980	0.021020	0.039000	0.095000	0.000000	0.000000	0.003922	0.000000	0.000000
Industrial Park	0.591007	0.037716	0.201207	0.115329	0.036863	0.013137	0.000000	0.000000	0.000000	0.000000	0.004740	0.000000	0.000000
Other Asphalt Surfaces	0.554334	0.035376	0.188722	0.108173	0.012711	0.004530	0.017449	0.070039	0.001415	0.001123	0.004446	0.000892	0.000789
Other Non-Asphalt Surfaces	0.554334	0.035376	0.188722	0.108173	0.012711	0.004530	0.017449	0.070039	0.001415	0.001123	0.004446	0.000892	0.000789

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0854	0.7765	0.6523	4.6600e-003		0.0590	0.0590		0.0590	0.0590		931.8404	931.8404	0.0179	0.0171	937.3778
NaturalGas Unmitigated	0.0854	0.7765	0.6523	4.6600e-003		0.0590	0.0590		0.0590	0.0590		931.8404	931.8404	0.0179	0.0171	937.3778

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	6589.68	0.0711	0.6461	0.5427	3.8800e-003		0.0491	0.0491		0.0491	0.0491		775.2570	775.2570	0.0149	0.0142	779.8639
Industrial Park	1330.96	0.0144	0.1305	0.1096	7.8000e-004		9.9200e-003	9.9200e-003		9.9200e-003	9.9200e-003		156.5834	156.5834	3.0000e-003	2.8700e-003	157.5139
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0854**	**0.7765**	**0.6523**	**4.6600e-003**		**0.0590**	**0.0590**		**0.0590**	**0.0590**		**931.8404**	**931.8404**	**0.0179**	**0.0171**	**937.3778**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	6.58968	0.0711	0.6461	0.5427	3.8800e-003		0.0491	0.0491		0.0491	0.0491		775.2570	775.2570	0.0149	0.0142	779.8639
Industrial Park	1.33096	0.0144	0.1305	0.1096	7.8000e-004		9.9200e-003	9.9200e-003		9.9200e-003	9.9200e-003		156.5834	156.5834	3.0000e-003	2.8700e-003	157.5139
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0854**	**0.7765**	**0.6523**	**4.6600e-003**		**0.0590**	**0.0590**		**0.0590**	**0.0590**		**931.8404**	**931.8404**	**0.0179**	**0.0171**	**937.3778**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.2040	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0493	0.0493	1.3000e-004		0.0525
Unmitigated	6.2040	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0493	0.0493	1.3000e-004		0.0525

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.4508					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.7510					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1100e-003	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0493	0.0493	1.3000e-004		0.0525
Total	**6.2040**	**2.1000e-004**	**0.0229**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0493**	**0.0493**	**1.3000e-004**		**0.0525**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.4508					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.7510					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1100e-003	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0493	0.0493	1.3000e-004		0.0525
Total	**6.2040**	**2.1000e-004**	**0.0229**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0493**	**0.0493**	**1.3000e-004**		**0.0525**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

6627 DHS 109 - Phase 3

Riverside-Salton Sea County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	74.03	1000sqft	1.70	74,030.00	0
Industrial Park	140.00	1000sqft	3.21	140,000.00	0
Other Asphalt Surfaces	7.99	Acre	7.99	348,044.40	0
Other Non-Asphalt Surfaces	3.08	Acre	3.08	134,164.80	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

6627 DHS 109 - Phase 3 - Riverside-Salton Sea County, Winter

Project Characteristics -

Land Use - Phase 3 is 15.98 ac w/ 214,030 sf bldgs (65.41% cultivation - 140,000 sf), ~50% P3 paving prkg/on-site rdwys (=~7.99 ac), & remainder 3.08 acres landscaping.

Construction Phase - Construction anticipated to start no earlier than October 2023 and be completed by Q4 2025. P3 to be operational in 2025.

Off-road Equipment - Building Construction Phase CalEEMod defautl timing cut in half, equipment has been doubled.

Off-road Equipment -

Grading - Site anticipated to balance.

Architectural Coating - SCAQMD Rule 1113 limits architectural coatings to 50g/L VOC. Architectural coatings have been mitigated to 30 g/L VOC for buildings & 100 g/L VOC for parking areas.

Vehicle Trips - Per TIA, 4.96 trips/TSF light industrial & 1,339 trips/920 TSF = 1.46 trips/TSF cultivation. Light industrial 21.4% trks (C-W) & 78.6% autos (CNW). Industrial Park 95% autos (C-NW) & 5% trks (C-W).

Energy Use - Per applicant, Phase 3- IP ~23,229,377.3 kWh/yr & GI ~2,448,547.6 kWh/yr. Converted to kWh/sf/yr & title-24, non-title 24 & lighting based on default %.

Sequestration - Per the landscape architect, ~836 new trees to be planted on-site. Split per bldg square foot. P3 is 17% bldf sf = 142 trees.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Energy Mitigation - Natural fueled turbine power generators, chillers, solar panels on bldng rooftops & prkng shade structures. Solar to provide ~14,394,331 kWh per year for Phase 3.

Waste Mitigation -

Fleet Mix - Revised vehicle mix per TIA for Light Industrial use of 78.6% Autos, 8% 2-Axle Trucks, 3.9% 3-Axle Trucks & 9.5% 4+ Axle Trucks & cultivation use o 95% autos & 5% 2-axle trucks.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	30.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	30.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	28.00
tblConstructionPhase	NumDays	300.00	424.00
tblConstructionPhase	NumDays	30.00	42.00
tblConstructionPhase	NumDays	20.00	28.00

tblEnergyUse	LightingElect	2.93	9.53
tblEnergyUse	LightingElect	3.66	11.37
tblEnergyUse	NT24E	5.02	16.37
tblEnergyUse	NT24E	2.79	8.66
tblEnergyUse	T24E	2.20	7.18
tblEnergyUse	T24E	3.07	9.51
tblFleetMix	HHD	0.07	0.10
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.55	0.49
tblFleetMix	LDA	0.55	0.59
tblFleetMix	LDT1	0.04	0.03
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.17
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LHD1	0.01	0.06
tblFleetMix	LHD1	0.01	0.04
tblFleetMix	LHD2	4.5300e-003	0.02
tblFleetMix	LHD2	4.5300e-003	0.01
tblFleetMix	MCY	4.4460e-003	3.9220e-003
tblFleetMix	MCY	4.4460e-003	4.7400e-003
tblFleetMix	MDV	0.11	0.10
tblFleetMix	MDV	0.11	0.12
tblFleetMix	MH	7.8900e-004	0.00
tblFleetMix	MH	7.8900e-004	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.4150e-003	0.00

tblFleetMix	OBUS	1.4150e-003	0.00
tblFleetMix	SBUS	8.9200e-004	0.00
tblFleetMix	SBUS	8.9200e-004	0.00
tblFleetMix	UBUS	1.1230e-003	0.00
tblFleetMix	UBUS	1.1230e-003	0.00
tblSequestration	NumberOfNewTrees	0.00	142.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	78.60
tblVehicleTrips	CNW_TTP	13.00	95.00
tblVehicleTrips	CW_TTP	59.00	21.40
tblVehicleTrips	CW_TTP	59.00	5.00
tblVehicleTrips	ST_TR	1.32	4.96
tblVehicleTrips	ST_TR	2.49	1.46
tblVehicleTrips	SU_TR	0.68	4.96
tblVehicleTrips	SU_TR	0.73	1.46
tblVehicleTrips	WD_TR	6.97	4.96
tblVehicleTrips	WD_TR	6.83	1.46

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	3.3875	34.5506	28.4478	0.0695	8.8407	1.4255	10.2661	3.6409	1.3114	4.9523	0.0000	6,935.9315	6,935.9315	1.9470	0.0000	6,956.4587
2024	2.5590	20.9846	23.1870	0.0687	3.0150	0.6335	3.6485	0.8127	0.5957	1.4085	0.0000	6,856.3887	6,856.3887	0.8101	0.0000	6,876.6401
2025	26.3883	19.8987	22.6546	0.0678	3.0149	0.5474	3.5624	0.8127	0.5148	1.3275	0.0000	6,765.7822	6,765.7822	0.7987	0.0000	6,785.7493
Maximum	**26.3883**	**34.5506**	**28.4478**	**0.0695**	**8.8407**	**1.4255**	**10.2661**	**3.6409**	**1.3114**	**4.9523**	**0.0000**	**6,935.9315**	**6,935.9315**	**1.9470**	**0.0000**	**6,956.4587**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	3.3875	34.5506	28.4478	0.0695	3.5499	1.4255	4.9754	1.4470	1.3114	2.7584	0.0000	6,935.9315	6,935.9315	1.9470	0.0000	6,956.4587
2024	2.5590	20.9846	23.1870	0.0687	3.0150	0.6335	3.6485	0.8127	0.5957	1.4085	0.0000	6,856.3887	6,856.3887	0.8101	0.0000	6,876.6401
2025	26.3883	19.8987	22.6546	0.0678	3.0149	0.5474	3.5624	0.8127	0.5148	1.3275	0.0000	6,765.7822	6,765.7822	0.7987	0.0000	6,785.7493
Maximum	**26.3883**	**34.5506**	**28.4478**	**0.0695**	**3.5499**	**1.4255**	**4.9754**	**1.4470**	**1.3114**	**2.7584**	**0.0000**	**6,935.9315**	**6,935.9315**	**1.9470**	**0.0000**	**6,956.4587**

6627 DHS 109 - Phase 3 - Riverside-Salton Sea County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**35.58**	**0.00**	**30.27**	**41.66**	**0.00**	**28.54**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.2040	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0493	0.0493	1.3000e-004		0.0525
Energy	0.0854	0.7765	0.6523	4.6600e-003		0.0590	0.0590		0.0590	0.0590		931.8404	931.8404	0.0179	0.0171	937.3778
Mobile	0.6492	4.9469	6.2776	0.0322	2.6181	0.0219	2.6399	0.7024	0.0205	0.7229		3,294.0075	3,294.0075	0.1473		3,297.6889
Total	**6.9386**	**5.7237**	**6.9528**	**0.0368**	**2.6181**	**0.0810**	**2.6990**	**0.7024**	**0.0796**	**0.7820**		**4,225.8971**	**4,225.8971**	**0.1653**	**0.0171**	**4,235.1192**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.2040	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0493	0.0493	1.3000e-004		0.0525
Energy	0.0854	0.7765	0.6523	4.6600e-003		0.0590	0.0590		0.0590	0.0590		931.8404	931.8404	0.0179	0.0171	937.3778
Mobile	0.6492	4.9469	6.2776	0.0322	2.6181	0.0219	2.6399	0.7024	0.0205	0.7229		3,294.0075	3,294.0075	0.1473		3,297.6889
Total	**6.9386**	**5.7237**	**6.9528**	**0.0368**	**2.6181**	**0.0810**	**2.6990**	**0.7024**	**0.0796**	**0.7820**		**4,225.8971**	**4,225.8971**	**0.1653**	**0.0171**	**4,235.1192**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	10/1/2023	11/28/2023	5	42	
2	Building Construction	Building Construction	11/29/2023	7/14/2025	5	424	
3	Paving	Paving	7/15/2025	8/21/2025	5	28	
4	Architectural Coating	Architectural Coating	8/22/2025	9/30/2025	5	28	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 105

Acres of Paving: 11.07

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 321,045; Non-Residential Outdoor: 107,015; Striped Parking Area: 28,933 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	292.00	114.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	58.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**8.6733**	**1.4245**	**10.0978**	**3.5965**	**1.3105**	**4.9070**		**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0657	0.0350	0.3966	1.3400e-003	0.1673	9.7000e-004	0.1683	0.0444	8.9000e-004	0.0453		133.5101	133.5101	2.7600e-003		133.5790
Total	**0.0657**	**0.0350**	**0.3966**	**1.3400e-003**	**0.1673**	**9.7000e-004**	**0.1683**	**0.0444**	**8.9000e-004**	**0.0453**		**133.5101**	**133.5101**	**2.7600e-003**		**133.5790**

3.2 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**3.3826**	**1.4245**	**4.8071**	**1.4026**	**1.3105**	**2.7132**	**0.0000**	**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0657	0.0350	0.3966	1.3400e-003	0.1673	9.7000e-004	0.1683	0.0444	8.9000e-004	0.0453		133.5101	133.5101	2.7600e-003		133.5790
Total	**0.0657**	**0.0350**	**0.3966**	**1.3400e-003**	**0.1673**	**9.7000e-004**	**0.1683**	**0.0444**	**8.9000e-004**	**0.0453**		**133.5101**	**133.5101**	**2.7600e-003**		**133.5790**

3.3 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1858	7.1141	1.6668	0.0230	0.5719	6.3100e-003	0.5782	0.1647	6.0300e-003	0.1708		2,431.4744	2,431.4744	0.1730		2,435.7998
Worker	0.9597	0.5113	5.7900	0.0196	2.4431	0.0141	2.4572	0.6480	0.0130	0.6610		1,949.2471	1,949.2471	0.0402		1,950.2529
Total	**1.1454**	**7.6254**	**7.4568**	**0.0426**	**3.0150**	**0.0204**	**3.0354**	**0.8127**	**0.0190**	**0.8318**		**4,380.7216**	**4,380.7216**	**0.2133**		**4,386.0527**

3.3 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1858	7.1141	1.6668	0.0230	0.5719	6.3100e-003	0.5782	0.1647	6.0300e-003	0.1708		2,431.4744	2,431.4744	0.1730		2,435.7998
Worker	0.9597	0.5113	5.7900	0.0196	2.4431	0.0141	2.4572	0.6480	0.0130	0.6610		1,949.2471	1,949.2471	0.0402		1,950.2529
Total	**1.1454**	**7.6254**	**7.4568**	**0.0426**	**3.0150**	**0.0204**	**3.0354**	**0.8127**	**0.0190**	**0.8318**		**4,380.7216**	**4,380.7216**	**0.2133**		**4,386.0527**

3.3 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**		**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1818	7.0776	1.6093	0.0229	0.5719	6.2500e-003	0.5781	0.1647	5.9700e-003	0.1707		2,421.3140	2,421.3140	0.1690		2,425.5399
Worker	0.9057	0.4632	5.4109	0.0188	2.4431	0.0140	2.4571	0.6480	0.0129	0.6609		1,879.3758	1,879.3758	0.0367		1,880.2926
Total	**1.0875**	**7.5408**	**7.0202**	**0.0418**	**3.0150**	**0.0202**	**3.0352**	**0.8127**	**0.0188**	**0.8316**		**4,300.6898**	**4,300.6898**	**0.2057**		**4,305.8325**

3.3 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1818	7.0776	1.6093	0.0229	0.5719	6.2500e-003	0.5781	0.1647	5.9700e-003	0.1707		2,421.3140	2,421.3140	0.1690		2,425.5399
Worker	0.9057	0.4632	5.4109	0.0188	2.4431	0.0140	2.4571	0.6480	0.0129	0.6609		1,879.3758	1,879.3758	0.0367		1,880.2926
Total	**1.0875**	**7.5408**	**7.0202**	**0.0418**	**3.0150**	**0.0202**	**3.0352**	**0.8127**	**0.0188**	**0.8316**		**4,300.6898**	**4,300.6898**	**0.2057**		**4,305.8325**

3.3 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1770	7.0076	1.5564	0.0228	0.5719	6.1500e-003	0.5780	0.1647	5.8800e-003	0.1706		2,405.1066	2,405.1066	0.1645		2,409.2187
Worker	0.8569	0.4214	5.0135	0.0181	2.4431	0.0137	2.4568	0.6480	0.0126	0.6606		1,804.2013	1,804.2013	0.0333		1,805.0325
Total	**1.0339**	**7.4290**	**6.5699**	**0.0409**	**3.0149**	**0.0199**	**3.0348**	**0.8127**	**0.0185**	**0.8312**		**4,209.3079**	**4,209.3079**	**0.1977**		**4,214.2512**

3.3 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1770	7.0076	1.5564	0.0228	0.5719	6.1500e-003	0.5780	0.1647	5.8800e-003	0.1706		2,405.1066	2,405.1066	0.1645		2,409.2187
Worker	0.8569	0.4214	5.0135	0.0181	2.4431	0.0137	2.4568	0.6480	0.0126	0.6606		1,804.2013	1,804.2013	0.0333		1,805.0325
Total	**1.0339**	**7.4290**	**6.5699**	**0.0409**	**3.0149**	**0.0199**	**3.0348**	**0.8127**	**0.0185**	**0.8312**		**4,209.3079**	**4,209.3079**	**0.1977**		**4,214.2512**

3.4 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.7476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.6628**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**		**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0440	0.0217	0.2575	9.3000e-004	0.1255	7.1000e-004	0.1262	0.0333	6.5000e-004	0.0339		92.6816	92.6816	1.7100e-003		92.7243
Total	**0.0440**	**0.0217**	**0.2575**	**9.3000e-004**	**0.1255**	**7.1000e-004**	**0.1262**	**0.0333**	**6.5000e-004**	**0.0339**		**92.6816**	**92.6816**	**1.7100e-003**		**92.7243**

3.4 Paving - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.7476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.6628**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0440	0.0217	0.2575	9.3000e-004	0.1255	7.1000e-004	0.1262	0.0333	6.5000e-004	0.0339		92.6816	92.6816	1.7100e-003		92.7243
Total	**0.0440**	**0.0217**	**0.2575**	**9.3000e-004**	**0.1255**	**7.1000e-004**	**0.1262**	**0.0333**	**6.5000e-004**	**0.0339**		**92.6816**	**92.6816**	**1.7100e-003**		**92.7243**

3.5 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	26.0472					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**26.2181**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1702	0.0837	0.9958	3.5900e-003	0.4853	2.7300e-003	0.4880	0.1287	2.5100e-003	0.1312		358.3688	358.3688	6.6000e-003		358.5339
Total	**0.1702**	**0.0837**	**0.9958**	**3.5900e-003**	**0.4853**	**2.7300e-003**	**0.4880**	**0.1287**	**2.5100e-003**	**0.1312**		**358.3688**	**358.3688**	**6.6000e-003**		**358.5339**

3.5 Architectural Coating - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	26.0472					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**26.2181**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1702	0.0837	0.9958	3.5900e-003	0.4853	2.7300e-003	0.4880	0.1287	2.5100e-003	0.1312		358.3688	358.3688	6.6000e-003		358.5339
Total	**0.1702**	**0.0837**	**0.9958**	**3.5900e-003**	**0.4853**	**2.7300e-003**	**0.4880**	**0.1287**	**2.5100e-003**	**0.1312**		**358.3688**	**358.3688**	**6.6000e-003**		**358.5339**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6492	4.9469	6.2776	0.0322	2.6181	0.0219	2.6399	0.7024	0.0205	0.7229		3,294.0075	3,294.0075	0.1473		3,297.6889
Unmitigated	0.6492	4.9469	6.2776	0.0322	2.6181	0.0219	2.6399	0.7024	0.0205	0.7229		3,294.0075	3,294.0075	0.1473		3,297.6889

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	367.19	367.19	367.19	862,800	862,800
Industrial Park	204.40	204.40	204.40	358,751	358,751
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	571.59	571.59	571.59	1,221,550	1,221,550

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	12.50	4.20	5.40	21.40	0.00	78.60	92	5	3
Industrial Park	12.50	4.20	5.40	5.00	0.00	95.00	79	19	2
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.488980	0.031205	0.166473	0.095420	0.058980	0.021020	0.039000	0.095000	0.000000	0.000000	0.003922	0.000000	0.000000
Industrial Park	0.591007	0.037716	0.201207	0.115329	0.036863	0.013137	0.000000	0.000000	0.000000	0.000000	0.004740	0.000000	0.000000
Other Asphalt Surfaces	0.554334	0.035376	0.188722	0.108173	0.012711	0.004530	0.017449	0.070039	0.001415	0.001123	0.004446	0.000892	0.000789
Other Non-Asphalt Surfaces	0.554334	0.035376	0.188722	0.108173	0.012711	0.004530	0.017449	0.070039	0.001415	0.001123	0.004446	0.000892	0.000789

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0854	0.7765	0.6523	4.6600e-003		0.0590	0.0590		0.0590	0.0590		931.8404	931.8404	0.0179	0.0171	937.3778
NaturalGas Unmitigated	0.0854	0.7765	0.6523	4.6600e-003		0.0590	0.0590		0.0590	0.0590		931.8404	931.8404	0.0179	0.0171	937.3778

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	6589.68	0.0711	0.6461	0.5427	3.8800e-003		0.0491	0.0491		0.0491	0.0491		775.2570	775.2570	0.0149	0.0142	779.8639
Industrial Park	1330.96	0.0144	0.1305	0.1096	7.8000e-004		9.9200e-003	9.9200e-003		9.9200e-003	9.9200e-003		156.5834	156.5834	3.0000e-003	2.8700e-003	157.5139
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0854**	**0.7765**	**0.6523**	**4.6600e-003**		**0.0590**	**0.0590**		**0.0590**	**0.0590**		**931.8404**	**931.8404**	**0.0179**	**0.0171**	**937.3778**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	6.58968	0.0711	0.6461	0.5427	3.8800e-003		0.0491	0.0491		0.0491	0.0491		775.2570	775.2570	0.0149	0.0142	779.8639
Industrial Park	1.33096	0.0144	0.1305	0.1096	7.8000e-004		9.9200e-003	9.9200e-003		9.9200e-003	9.9200e-003		156.5834	156.5834	3.0000e-003	2.8700e-003	157.5139
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0854**	**0.7765**	**0.6523**	**4.6600e-003**		**0.0590**	**0.0590**		**0.0590**	**0.0590**		**931.8404**	**931.8404**	**0.0179**	**0.0171**	**937.3778**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.2040	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0493	0.0493	1.3000e-004		0.0525
Unmitigated	6.2040	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0493	0.0493	1.3000e-004		0.0525

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.4508					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.7510					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1100e-003	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0493	0.0493	1.3000e-004		0.0525
Total	**6.2040**	**2.1000e-004**	**0.0229**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0493**	**0.0493**	**1.3000e-004**		**0.0525**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.4508					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.7510					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1100e-003	2.1000e-004	0.0229	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0493	0.0493	1.3000e-004		0.0525
Total	**6.2040**	**2.1000e-004**	**0.0229**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0493**	**0.0493**	**1.3000e-004**		**0.0525**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

6627 DHS 109 - Phase 4

Riverside-Salton Sea County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	74.03	1000sqft	1.70	74,030.00	0
Industrial Park	140.00	1000sqft	3.21	140,000.00	0
Other Asphalt Surfaces	9.85	Acre	9.85	428,848.20	0
Other Non-Asphalt Surfaces	2.40	Acre	2.40	104,544.00	0
Other Non-Asphalt Surfaces	2.53	Acre	2.53	110,206.80	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

6627 DHS 109 - Phase 4 - Riverside-Salton Sea County, Summer

Project Characteristics -

Land Use - Phase 4 is 19.69 ac w/ 214,030 bldgs (65.41% cultivation = 140,000sf), ~50% P4 paving prkg/on-site rdwys (~9.845ac), 2.4 acres of basins, & remainder 2.53 acres landscaping.

Construction Phase - Construction anticipated to start no earlier than October 2025 and end in Q4 2027. P4 to be operational in 2027.

Grading - Site anticipated to balance.

Architectural Coating - SCAQMD Rule 1113 limits architectural coatings to 50g/L VOC. Architectural coatings have been mitigated to 30 g/L VOC for buildings & 100 g/L VOC for parking areas.

Vehicle Trips - Per TIA, 4.96 trips/TSF light industrial & 1,339 trips/920 TSF = 1.46 trips/TSF cultivation. Light industrial 21.4% trks (C-W) & 78.6% autos (CNW). Industrial Park 95% autos (C-NW) & 5% trks (C-W).

Energy Use - Per applicant, Phase 4- IP ~4,136,134.4 kWh/yr & GI ~2,448,547.6kWh/yr. Converted to kWh/sf/yr & title-24, non-title 24 & lighting based on default %.

Sequestration - Per the landscape architect, ~836 new trees to be planted on-site. Split per bldg square foot. P4 is 17% bldf sf = 142 trees.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Energy Mitigation - Natural fueled turbine power generators, chillers, solar panels on bldng rooftops & prkng shade structures. Solar to provide ~14,394,331 kWh per year for Phase 4.

Waste Mitigation -

Fleet Mix - Revised vehicle mix per TIA for Light Industrial use of 78.6% Autos, 8% 2-Axle Trucks, 3.9% 3-Axle Trucks & 9.5% 4+ Axle Trucks & industrial park (cultivation use) of 95% autos & 5% 2-axle trucks.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	30.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	30.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	29.00
tblConstructionPhase	NumDays	300.00	423.00
tblConstructionPhase	NumDays	30.00	42.00
tblConstructionPhase	NumDays	20.00	29.00
tblEnergyUse	LightingElect	2.93	9.53
tblEnergyUse	LightingElect	3.66	11.37

tblEnergyUse	NT24E	5.02	16.37
tblEnergyUse	NT24E	2.79	8.66
tblEnergyUse	T24E	2.20	7.18
tblEnergyUse	T24E	3.07	9.51
tblFleetMix	HHD	0.07	0.10
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.56	0.49
tblFleetMix	LDA	0.56	0.59
tblFleetMix	LDT1	0.03	0.03
tblFleetMix	LDT1	0.03	0.04
tblFleetMix	LDT2	0.19	0.17
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LHD1	0.01	0.06
tblFleetMix	LHD1	0.01	0.04
tblFleetMix	LHD2	4.3370e-003	0.02
tblFleetMix	LHD2	4.3370e-003	0.01
tblFleetMix	MCY	4.4050e-003	3.8790e-003
tblFleetMix	MCY	4.4050e-003	4.6890e-003
tblFleetMix	MDV	0.11	0.09
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MH	7.0500e-004	0.00
tblFleetMix	MH	7.0500e-004	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.4210e-003	0.00
tblFleetMix	OBUS	1.4210e-003	0.00
tblFleetMix	SBUS	8.6700e-004	0.00

tblFleetMix	SBUS	8.6700e-004	0.00
tblFleetMix	UBUS	1.1010e-003	0.00
tblFleetMix	UBUS	1.1010e-003	0.00
tblSequestration	NumberOfNewTrees	0.00	142.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	78.60
tblVehicleTrips	CNW_TTP	13.00	95.00
tblVehicleTrips	CW_TTP	59.00	21.40
tblVehicleTrips	CW_TTP	59.00	5.00
tblVehicleTrips	ST_TR	1.32	4.96
tblVehicleTrips	ST_TR	2.49	1.46
tblVehicleTrips	SU_TR	0.68	4.96
tblVehicleTrips	SU_TR	0.73	1.46
tblVehicleTrips	WD_TR	6.97	4.96
tblVehicleTrips	WD_TR	6.83	1.46

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	2.9619	27.9708	26.7538	0.0813	8.8407	1.1318	9.9725	3.6409	1.0413	4.6822	0.0000	8,144.0905	8,144.0905	1.9458	0.0000	8,164.8508
2026	2.6020	21.6541	24.7702	0.0802	3.7193	0.5512	4.2705	1.0026	0.5183	1.5209	0.0000	8,033.1992	8,033.1992	0.8212	0.0000	8,053.7280
2027	27.0632	21.5365	24.2754	0.0792	3.7193	0.5502	4.2695	1.0026	0.5174	1.5200	0.0000	7,936.6294	7,936.6294	0.8124	0.0000	7,956.9389
Maximum	**27.0632**	**27.9708**	**26.7538**	**0.0813**	**8.8407**	**1.1318**	**9.9725**	**3.6409**	**1.0413**	**4.6822**	**0.0000**	**8,144.0905**	**8,144.0905**	**1.9458**	**0.0000**	**8,164.8508**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	2.9619	27.9708	26.7538	0.0813	3.7193	1.1318	4.6818	1.4470	1.0413	2.4883	0.0000	8,144.0905	8,144.0905	1.9458	0.0000	8,164.8508
2026	2.6020	21.6541	24.7702	0.0802	3.7193	0.5512	4.2705	1.0026	0.5183	1.5209	0.0000	8,033.1992	8,033.1992	0.8212	0.0000	8,053.7280
2027	27.0632	21.5365	24.2754	0.0792	3.7193	0.5502	4.2695	1.0026	0.5174	1.5200	0.0000	7,936.6294	7,936.6294	0.8124	0.0000	7,956.9389
Maximum	**27.0632**	**27.9708**	**26.7538**	**0.0813**	**3.7193**	**1.1318**	**4.6818**	**1.4470**	**1.0413**	**2.4883**	**0.0000**	**8,144.0905**	**8,144.0905**	**1.9458**	**0.0000**	**8,164.8508**

6627 DHS 109 - Phase 4 - Riverside-Salton Sea County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	31.46	0.00	28.58	38.86	0.00	28.41	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.2919	2.1000e-004	0.0233	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0501	0.0501	1.3000e-004		0.0533
Energy	0.0854	0.7765	0.6523	4.6600e-003		0.0590	0.0590		0.0590	0.0590		931.8404	931.8404	0.0179	0.0171	937.3778
Mobile	0.7032	4.6754	6.2957	0.0331	2.6181	0.0201	2.6383	0.7025	0.0188	0.7213		3,387.7355	3,387.7355	0.1296		3,390.9753
Total	**7.0805**	**5.4521**	**6.9713**	**0.0377**	**2.6181**	**0.0792**	**2.6974**	**0.7025**	**0.0779**	**0.7804**		**4,319.6259**	**4,319.6259**	**0.1476**	**0.0171**	**4,328.4064**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.2919	2.1000e-004	0.0233	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0501	0.0501	1.3000e-004		0.0533
Energy	0.0854	0.7765	0.6523	4.6600e-003		0.0590	0.0590		0.0590	0.0590		931.8404	931.8404	0.0179	0.0171	937.3778
Mobile	0.7032	4.6754	6.2957	0.0331	2.6181	0.0201	2.6383	0.7025	0.0188	0.7213		3,387.7355	3,387.7355	0.1296		3,390.9753
Total	**7.0805**	**5.4521**	**6.9713**	**0.0377**	**2.6181**	**0.0792**	**2.6974**	**0.7025**	**0.0779**	**0.7804**		**4,319.6259**	**4,319.6259**	**0.1476**	**0.0171**	**4,328.4064**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	10/1/2025	11/27/2025	5	42	
2	Building Construction	Building Construction	11/28/2025	7/13/2027	5	423	
3	Paving	Paving	7/14/2027	8/23/2027	5	29	
4	Architectural Coating	Architectural Coating	8/24/2027	10/1/2027	5	29	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 105

Acres of Paving: 14.78

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 321,045; Non-Residential Outdoor: 107,015; Striped Parking Area: 38,616 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	360.00	141.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	72.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	**2.9012**	**27.9429**	**26.3311**	**0.0621**	**8.6733**	**1.1309**	**9.8042**	**3.5965**	**1.0404**	**4.6369**		**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0606	0.0280	0.4227	1.3800e-003	0.1673	9.4000e-004	0.1683	0.0444	8.7000e-004	0.0453		137.6727	137.6727	2.5900e-003		137.7374
Total	**0.0606**	**0.0280**	**0.4227**	**1.3800e-003**	**0.1673**	**9.4000e-004**	**0.1683**	**0.0444**	**8.7000e-004**	**0.0453**		**137.6727**	**137.6727**	**2.5900e-003**		**137.7374**

3.2 Grading - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	**2.9012**	**27.9429**	**26.3311**	**0.0621**	**3.3826**	**1.1309**	**4.5135**	**1.4026**	**1.0404**	**2.4431**	**0.0000**	**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0606	0.0280	0.4227	1.3800e-003	0.1673	9.4000e-004	0.1683	0.0444	8.7000e-004	0.0453		137.6727	137.6727	2.5900e-003		137.7374
Total	**0.0606**	**0.0280**	**0.4227**	**1.3800e-003**	**0.1673**	**9.4000e-004**	**0.1683**	**0.0444**	**8.7000e-004**	**0.0453**		**137.6727**	**137.6727**	**2.5900e-003**		**137.7374**

3.3 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2056	8.8090	1.6392	0.0294	0.7073	7.3500e-003	0.7147	0.2037	7.0200e-003	0.2107		3,109.5084	3,109.5084	0.1828		3,114.0791
Worker	1.0911	0.5032	7.6084	0.0249	3.0120	0.0169	3.0289	0.7989	0.0156	0.8145		2,478.1077	2,478.1077	0.0466		2,479.2736
Total	**1.2966**	**9.3122**	**9.2476**	**0.0543**	**3.7193**	**0.0243**	**3.7436**	**1.0026**	**0.0226**	**1.0252**		**5,587.6162**	**5,587.6162**	**0.2295**		**5,593.3527**

3.3 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2056	8.8090	1.6392	0.0294	0.7073	7.3500e-003	0.7147	0.2037	7.0200e-003	0.2107		3,109.5084	3,109.5084	0.1828		3,114.0791
Worker	1.0911	0.5032	7.6084	0.0249	3.0120	0.0169	3.0289	0.7989	0.0156	0.8145		2,478.1077	2,478.1077	0.0466		2,479.2736
Total	**1.2966**	**9.3122**	**9.2476**	**0.0543**	**3.7193**	**0.0243**	**3.7436**	**1.0026**	**0.0226**	**1.0252**		**5,587.6162**	**5,587.6162**	**0.2295**		**5,593.3527**

3.3 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2007	8.7236	1.5903	0.0292	0.7073	7.2400e-003	0.7145	0.2037	6.9200e-003	0.2106		3,088.9086	3,088.9086	0.1777		3,093.3514
Worker	1.0339	0.4608	7.0953	0.0240	3.0120	0.0164	3.0284	0.7989	0.0151	0.8140		2,387.8163	2,387.8163	0.0425		2,388.8786
Total	**1.2346**	**9.1844**	**8.6856**	**0.0532**	**3.7193**	**0.0236**	**3.7429**	**1.0026**	**0.0220**	**1.0246**		**5,476.7249**	**5,476.7249**	**0.2202**		**5,482.2299**

3.3 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2007	8.7236	1.5903	0.0292	0.7073	7.2400e-003	0.7145	0.2037	6.9200e-003	0.2106		3,088.9086	3,088.9086	0.1777		3,093.3514
Worker	1.0339	0.4608	7.0953	0.0240	3.0120	0.0164	3.0284	0.7989	0.0151	0.8140		2,387.8163	2,387.8163	0.0425		2,388.8786
Total	**1.2346**	**9.1844**	**8.6856**	**0.0532**	**3.7193**	**0.0236**	**3.7429**	**1.0026**	**0.0220**	**1.0246**		**5,476.7249**	**5,476.7249**	**0.2202**		**5,482.2299**

3.3 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1966	8.6436	1.5504	0.0291	0.7073	7.1400e-003	0.7144	0.2037	6.8300e-003	0.2105		3,071.4181	3,071.4181	0.1726		3,075.7337
Worker	0.9785	0.4232	6.6404	0.0232	3.0120	0.0155	3.0276	0.7989	0.0143	0.8132		2,308.7370	2,308.7370	0.0388		2,309.7071
Total	**1.1751**	**9.0668**	**8.1908**	**0.0522**	**3.7193**	**0.0227**	**3.7420**	**1.0026**	**0.0211**	**1.0238**		**5,380.1550**	**5,380.1550**	**0.2114**		**5,385.4408**

3.3 Building Construction - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1966	8.6436	1.5504	0.0291	0.7073	7.1400e-003	0.7144	0.2037	6.8300e-003	0.2105		3,071.4181	3,071.4181	0.1726		3,075.7337
Worker	0.9785	0.4232	6.6404	0.0232	3.0120	0.0155	3.0276	0.7989	0.0143	0.8132		2,308.7370	2,308.7370	0.0388		2,309.7071
Total	**1.1751**	**9.0668**	**8.1908**	**0.0522**	**3.7193**	**0.0227**	**3.7420**	**1.0026**	**0.0211**	**1.0238**		**5,380.1550**	**5,380.1550**	**0.2114**		**5,385.4408**

3.4 Paving - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.8899					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.8051**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**		**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0408	0.0176	0.2767	9.6000e-004	0.1255	6.5000e-004	0.1262	0.0333	6.0000e-004	0.0339		96.1974	96.1974	1.6200e-003		96.2378
Total	**0.0408**	**0.0176**	**0.2767**	**9.6000e-004**	**0.1255**	**6.5000e-004**	**0.1262**	**0.0333**	**6.0000e-004**	**0.0339**		**96.1974**	**96.1974**	**1.6200e-003**		**96.2378**

3.4 Paving - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.8899					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.8051**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0408	0.0176	0.2767	9.6000e-004	0.1255	6.5000e-004	0.1262	0.0333	6.0000e-004	0.0339		96.1974	96.1974	1.6200e-003		96.2378
Total	**0.0408**	**0.0176**	**0.2767**	**9.6000e-004**	**0.1255**	**6.5000e-004**	**0.1262**	**0.0333**	**6.0000e-004**	**0.0339**		**96.1974**	**96.1974**	**1.6200e-003**		**96.2378**

3.5 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	26.6966					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**26.8675**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1957	0.0846	1.3281	4.6300e-003	0.6024	3.1100e-003	0.6055	0.1598	2.8600e-003	0.1626		461.7474	461.7474	7.7600e-003		461.9414
Total	**0.1957**	**0.0846**	**1.3281**	**4.6300e-003**	**0.6024**	**3.1100e-003**	**0.6055**	**0.1598**	**2.8600e-003**	**0.1626**		**461.7474**	**461.7474**	**7.7600e-003**		**461.9414**

3.5 Architectural Coating - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	26.6966					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**26.8675**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1957	0.0846	1.3281	4.6300e-003	0.6024	3.1100e-003	0.6055	0.1598	2.8600e-003	0.1626		461.7474	461.7474	7.7600e-003		461.9414
Total	**0.1957**	**0.0846**	**1.3281**	**4.6300e-003**	**0.6024**	**3.1100e-003**	**0.6055**	**0.1598**	**2.8600e-003**	**0.1626**		**461.7474**	**461.7474**	**7.7600e-003**		**461.9414**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7032	4.6754	6.2957	0.0331	2.6181	0.0201	2.6383	0.7025	0.0188	0.7213		3,387.7355	3,387.7355	0.1296		3,390.9753
Unmitigated	0.7032	4.6754	6.2957	0.0331	2.6181	0.0201	2.6383	0.7025	0.0188	0.7213		3,387.7355	3,387.7355	0.1296		3,390.9753

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	367.19	367.19	367.19	862,800	862,800
Industrial Park	204.40	204.40	204.40	358,751	358,751
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	571.59	571.59	571.59	1,221,550	1,221,550

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	12.50	4.20	5.40	21.40	0.00	78.60	92	5	3
Industrial Park	12.50	4.20	5.40	5.00	0.00	95.00	79	19	2
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.491680	0.030621	0.167316	0.092503	0.058126	0.021874	0.039000	0.095000	0.000000	0.000000	0.003879	0.000000	0.000000
Industrial Park	0.594270	0.037010	0.202227	0.111804	0.036329	0.013671	0.000000	0.000000	0.000000	0.000000	0.004689	0.000000	0.000000
Other Asphalt Surfaces	0.558300	0.034770	0.189987	0.105037	0.011525	0.004337	0.017323	0.070222	0.001421	0.001101	0.004405	0.000867	0.000705
Other Non-Asphalt Surfaces	0.558300	0.034770	0.189987	0.105037	0.011525	0.004337	0.017323	0.070222	0.001421	0.001101	0.004405	0.000867	0.000705

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0854	0.7765	0.6523	4.6600e-003		0.0590	0.0590		0.0590	0.0590		931.8404	931.8404	0.0179	0.0171	937.3778
NaturalGas Unmitigated	0.0854	0.7765	0.6523	4.6600e-003		0.0590	0.0590		0.0590	0.0590		931.8404	931.8404	0.0179	0.0171	937.3778

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	6589.68	0.0711	0.6461	0.5427	3.8800e-003		0.0491	0.0491		0.0491	0.0491		775.2570	775.2570	0.0149	0.0142	779.8639
Industrial Park	1330.96	0.0144	0.1305	0.1096	7.8000e-004		9.9200e-003	9.9200e-003		9.9200e-003	9.9200e-003		156.5834	156.5834	3.0000e-003	2.8700e-003	157.5139
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0854**	**0.7765**	**0.6523**	**4.6600e-003**		**0.0590**	**0.0590**		**0.0590**	**0.0590**		**931.8404**	**931.8404**	**0.0179**	**0.0171**	**937.3778**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	6.58968	0.0711	0.6461	0.5427	3.8800e-003		0.0491	0.0491		0.0491	0.0491		775.2570	775.2570	0.0149	0.0142	779.8639
Industrial Park	1.33096	0.0144	0.1305	0.1096	7.8000e-004		9.9200e-003	9.9200e-003		9.9200e-003	9.9200e-003		156.5834	156.5834	3.0000e-003	2.8700e-003	157.5139
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0854**	**0.7765**	**0.6523**	**4.6600e-003**		**0.0590**	**0.0590**		**0.0590**	**0.0590**		**931.8404**	**931.8404**	**0.0179**	**0.0171**	**937.3778**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.2919	2.1000e-004	0.0233	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0501	0.0501	1.3000e-004		0.0533
Unmitigated	6.2919	2.1000e-004	0.0233	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0501	0.0501	1.3000e-004		0.0533

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.4815					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.8082					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1500e-003	2.1000e-004	0.0233	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0501	0.0501	1.3000e-004		0.0533
Total	**6.2919**	**2.1000e-004**	**0.0233**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0501**	**0.0501**	**1.3000e-004**		**0.0533**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.4815					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.8082					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1500e-003	2.1000e-004	0.0233	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0501	0.0501	1.3000e-004		0.0533
Total	**6.2919**	**2.1000e-004**	**0.0233**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0501**	**0.0501**	**1.3000e-004**		**0.0533**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

6627 DHS 109 - Phase 4

Riverside-Salton Sea County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	74.03	1000sqft	1.70	74,030.00	0
Industrial Park	140.00	1000sqft	3.21	140,000.00	0
Other Asphalt Surfaces	9.85	Acre	9.85	428,848.20	0
Other Non-Asphalt Surfaces	2.40	Acre	2.40	104,544.00	0
Other Non-Asphalt Surfaces	2.53	Acre	2.53	110,206.80	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

6627 DHS 109 - Phase 4 - Riverside-Salton Sea County, Winter

Project Characteristics -

Land Use - Phase 4 is 19.69 ac w/ 214,030 bldgs (65.41% cultivation = 140,000sf), ~50% P4 paving prkg/on-site rdwys (~9.845ac), 2.4 acres of basins, & remainder 2.53 acres landscaping.

Construction Phase - Construction anticipated to start no earlier than October 2025 and end in Q4 2027. P4 to be operational in 2027.

Grading - Site anticipated to balance.

Architectural Coating - SCAQMD Rule 1113 limits architectural coatings to 50g/L VOC. Architectural coatings have been mitigated to 30 g/L VOC for buildings & 100 g/L VOC for parking areas.

Vehicle Trips - Per TIA, 4.96 trips/TSF light industrial & 1,339 trips/920 TSF = 1.46 trips/TSF cultivation. Light industrial 21.4% trks (C-W) & 78.6% autos (CNW). Industrial Park 95% autos (C-NW) & 5% trks (C-W).

Energy Use - Per applicant, Phase 4- IP ~4,136,134.4 kWh/yr & GI ~2,448,547.6kWh/yr. Converted to kWh/sf/yr & title-24, non-title 24 & lighting based on default %.

Sequestration - Per the landscape architect, ~836 new trees to be planted on-site. Split per bldg square foot. P4 is 17% bldf sf = 142 trees.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Energy Mitigation - Natural fueled turbine power generators, chillers, solar panels on bldng rooftops & prkng shade structures. Solar to provide ~14,394,331 kWh per year for Phase 4.

Waste Mitigation -

Fleet Mix - Revised vehicle mix per TIA for Light Industrial use of 78.6% Autos, 8% 2-Axle Trucks, 3.9% 3-Axle Trucks & 9.5% 4+ Axle Trucks & industrial park (cultivation use) of 95% autos & 5% 2-axle trucks.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	30.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	30.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	29.00
tblConstructionPhase	NumDays	300.00	423.00
tblConstructionPhase	NumDays	30.00	42.00
tblConstructionPhase	NumDays	20.00	29.00
tblEnergyUse	LightingElect	2.93	9.53
tblEnergyUse	LightingElect	3.66	11.37

tblEnergyUse	NT24E	5.02	16.37
tblEnergyUse	NT24E	2.79	8.66
tblEnergyUse	T24E	2.20	7.18
tblEnergyUse	T24E	3.07	9.51
tblFleetMix	HHD	0.07	0.10
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.56	0.49
tblFleetMix	LDA	0.56	0.59
tblFleetMix	LDT1	0.03	0.03
tblFleetMix	LDT1	0.03	0.04
tblFleetMix	LDT2	0.19	0.17
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LHD1	0.01	0.06
tblFleetMix	LHD1	0.01	0.04
tblFleetMix	LHD2	4.3370e-003	0.02
tblFleetMix	LHD2	4.3370e-003	0.01
tblFleetMix	MCY	4.4050e-003	3.8790e-003
tblFleetMix	MCY	4.4050e-003	4.6890e-003
tblFleetMix	MDV	0.11	0.09
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MH	7.0500e-004	0.00
tblFleetMix	MH	7.0500e-004	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.4210e-003	0.00
tblFleetMix	OBUS	1.4210e-003	0.00
tblFleetMix	SBUS	8.6700e-004	0.00

tblFleetMix	SBUS	8.6700e-004	0.00
tblFleetMix	UBUS	1.1010e-003	0.00
tblFleetMix	UBUS	1.1010e-003	0.00
tblSequestration	NumberOfNewTrees	0.00	142.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	78.60
tblVehicleTrips	CNW_TTP	13.00	95.00
tblVehicleTrips	CW_TTP	59.00	21.40
tblVehicleTrips	CW_TTP	59.00	5.00
tblVehicleTrips	ST_TR	1.32	4.96
tblVehicleTrips	ST_TR	2.49	1.46
tblVehicleTrips	SU_TR	0.68	4.96
tblVehicleTrips	SU_TR	0.73	1.46
tblVehicleTrips	WD_TR	6.97	4.96
tblVehicleTrips	WD_TR	6.83	1.46

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	2.9599	27.9718	26.6745	0.0774	8.8407	1.1318	9.9725	3.6409	1.0413	4.6822	0.0000	7,755.5692	7,755.5692	1.9455	0.0000	7,776.7037
2026	2.5852	21.5269	23.7133	0.0764	3.7193	0.5514	4.2707	1.0026	0.5185	1.5211	0.0000	7,655.6793	7,655.6793	0.8360	0.0000	7,676.5788
2027	27.0580	21.4069	23.2937	0.0756	3.7193	0.5505	4.2697	1.0026	0.5176	1.5202	0.0000	7,568.4684	7,568.4684	0.8270	0.0000	7,589.1431
Maximum	**27.0580**	**27.9718**	**26.6745**	**0.0774**	**8.8407**	**1.1318**	**9.9725**	**3.6409**	**1.0413**	**4.6822**	**0.0000**	**7,755.5692**	**7,755.5692**	**1.9455**	**0.0000**	**7,776.7037**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	2.9599	27.9718	26.6745	0.0774	3.7193	1.1318	4.6818	1.4470	1.0413	2.4883	0.0000	7,755.5692	7,755.5692	1.9455	0.0000	7,776.7037
2026	2.5852	21.5269	23.7133	0.0764	3.7193	0.5514	4.2707	1.0026	0.5185	1.5211	0.0000	7,655.6793	7,655.6793	0.8360	0.0000	7,676.5788
2027	27.0580	21.4069	23.2937	0.0756	3.7193	0.5505	4.2697	1.0026	0.5176	1.5202	0.0000	7,568.4684	7,568.4684	0.8270	0.0000	7,589.1431
Maximum	**27.0580**	**27.9718**	**26.6745**	**0.0774**	**3.7193**	**1.1318**	**4.6818**	**1.4470**	**1.0413**	**2.4883**	**0.0000**	**7,755.5692**	**7,755.5692**	**1.9455**	**0.0000**	**7,776.7037**

6627 DHS 109 - Phase 4 - Riverside-Salton Sea County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**31.46**	**0.00**	**28.58**	**38.86**	**0.00**	**28.40**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.2919	2.1000e-004	0.0233	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0501	0.0501	1.3000e-004		0.0533
Energy	0.0854	0.7765	0.6523	4.6600e-003		0.0590	0.0590		0.0590	0.0590		931.8404	931.8404	0.0179	0.0171	937.3778
Mobile	0.5897	4.6465	5.6255	0.0308	2.6181	0.0202	2.6384	0.7025	0.0189	0.7214		3,153.4369	3,153.4369	0.1363		3,156.8451
Total	**6.9670**	**5.4232**	**6.3011**	**0.0354**	**2.6181**	**0.0793**	**2.6975**	**0.7025**	**0.0780**	**0.7805**		**4,085.3273**	**4,085.3273**	**0.1543**	**0.0171**	**4,094.2763**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.2919	2.1000e-004	0.0233	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0501	0.0501	1.3000e-004		0.0533
Energy	0.0854	0.7765	0.6523	4.6600e-003		0.0590	0.0590		0.0590	0.0590		931.8404	931.8404	0.0179	0.0171	937.3778
Mobile	0.5897	4.6465	5.6255	0.0308	2.6181	0.0202	2.6384	0.7025	0.0189	0.7214		3,153.4369	3,153.4369	0.1363		3,156.8451
Total	**6.9670**	**5.4232**	**6.3011**	**0.0354**	**2.6181**	**0.0793**	**2.6975**	**0.7025**	**0.0780**	**0.7805**		**4,085.3273**	**4,085.3273**	**0.1543**	**0.0171**	**4,094.2763**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	10/1/2025	11/27/2025	5	42	
2	Building Construction	Building Construction	11/28/2025	7/13/2027	5	423	
3	Paving	Paving	7/14/2027	8/23/2027	5	29	
4	Architectural Coating	Architectural Coating	8/24/2027	10/1/2027	5	29	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 105

Acres of Paving: 14.78

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 321,045; Non-Residential Outdoor: 107,015; Striped Parking Area: 38,616 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	360.00	141.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	72.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	**2.9012**	**27.9429**	**26.3311**	**0.0621**	**8.6733**	**1.1309**	**9.8042**	**3.5965**	**1.0404**	**4.6369**		**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0587	0.0289	0.3434	1.2400e-003	0.1673	9.4000e-004	0.1683	0.0444	8.7000e-004	0.0453		123.5754	123.5754	2.2800e-003		123.6324
Total	**0.0587**	**0.0289**	**0.3434**	**1.2400e-003**	**0.1673**	**9.4000e-004**	**0.1683**	**0.0444**	**8.7000e-004**	**0.0453**		**123.5754**	**123.5754**	**2.2800e-003**		**123.6324**

3.2 Grading - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	**2.9012**	**27.9429**	**26.3311**	**0.0621**	**3.3826**	**1.1309**	**4.5135**	**1.4026**	**1.0404**	**2.4431**	**0.0000**	**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0587	0.0289	0.3434	1.2400e-003	0.1673	9.4000e-004	0.1683	0.0444	8.7000e-004	0.0453		123.5754	123.5754	2.2800e-003		123.6324
Total	**0.0587**	**0.0289**	**0.3434**	**1.2400e-003**	**0.1673**	**9.4000e-004**	**0.1683**	**0.0444**	**8.7000e-004**	**0.0453**		**123.5754**	**123.5754**	**2.2800e-003**		**123.6324**

3.3 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2190	8.6673	1.9250	0.0282	0.7073	7.6100e-003	0.7149	0.2037	7.2700e-003	0.2110		2,974.7371	2,974.7371	0.2034		2,979.8232
Worker	1.0565	0.5195	6.1811	0.0223	3.0120	0.0169	3.0289	0.7989	0.0156	0.8145		2,224.3578	2,224.3578	0.0410		2,225.3825
Total	**1.2754**	**9.1868**	**8.1061**	**0.0505**	**3.7193**	**0.0245**	**3.7439**	**1.0026**	**0.0228**	**1.0255**		**5,199.0948**	**5,199.0948**	**0.2444**		**5,205.2057**

3.3 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2190	8.6673	1.9250	0.0282	0.7073	7.6100e-003	0.7149	0.2037	7.2700e-003	0.2110		2,974.7371	2,974.7371	0.2034		2,979.8232
Worker	1.0565	0.5195	6.1811	0.0223	3.0120	0.0169	3.0289	0.7989	0.0156	0.8145		2,224.3578	2,224.3578	0.0410		2,225.3825
Total	**1.2754**	**9.1868**	**8.1061**	**0.0505**	**3.7193**	**0.0245**	**3.7439**	**1.0026**	**0.0228**	**1.0255**		**5,199.0948**	**5,199.0948**	**0.2444**		**5,205.2057**

3.3 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2139	8.5815	1.8718	0.0280	0.7073	7.4800e-003	0.7148	0.2037	7.1500e-003	0.2109		2,955.8612	2,955.8612	0.1977		2,960.8032
Worker	1.0039	0.4757	5.7569	0.0215	3.0120	0.0164	3.0284	0.7989	0.0151	0.8140		2,143.3438	2,143.3438	0.0374		2,144.2775
Total	**1.2178**	**9.0572**	**7.6286**	**0.0495**	**3.7193**	**0.0239**	**3.7432**	**1.0026**	**0.0222**	**1.0249**		**5,099.2050**	**5,099.2050**	**0.2350**		**5,105.0807**

3.3 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2139	8.5815	1.8718	0.0280	0.7073	7.4800e-003	0.7148	0.2037	7.1500e-003	0.2109		2,955.8612	2,955.8612	0.1977		2,960.8032
Worker	1.0039	0.4757	5.7569	0.0215	3.0120	0.0164	3.0284	0.7989	0.0151	0.8140		2,143.3438	2,143.3438	0.0374		2,144.2775
Total	**1.2178**	**9.0572**	**7.6286**	**0.0495**	**3.7193**	**0.0239**	**3.7432**	**1.0026**	**0.0222**	**1.0249**		**5,099.2050**	**5,099.2050**	**0.2350**		**5,105.0807**

3.3 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2097	8.5006	1.8285	0.0278	0.7073	7.3600e-003	0.7146	0.2037	7.0400e-003	0.2107		2,939.7143	2,939.7143	0.1919		2,944.5126
Worker	0.9524	0.4366	5.3805	0.0208	3.0120	0.0155	3.0276	0.7989	0.0143	0.8132		2,072.2798	2,072.2798	0.0341		2,073.1325
Total	**1.1621**	**8.9372**	**7.2090**	**0.0486**	**3.7193**	**0.0229**	**3.7422**	**1.0026**	**0.0213**	**1.0240**		**5,011.9940**	**5,011.9940**	**0.2260**		**5,017.6451**

3.3 Building Construction - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2097	8.5006	1.8285	0.0278	0.7073	7.3600e-003	0.7146	0.2037	7.0400e-003	0.2107		2,939.7143	2,939.7143	0.1919		2,944.5126
Worker	0.9524	0.4366	5.3805	0.0208	3.0120	0.0155	3.0276	0.7989	0.0143	0.8132		2,072.2798	2,072.2798	0.0341		2,073.1325
Total	**1.1621**	**8.9372**	**7.2090**	**0.0486**	**3.7193**	**0.0229**	**3.7422**	**1.0026**	**0.0213**	**1.0240**		**5,011.9940**	**5,011.9940**	**0.2260**		**5,017.6451**

3.4 Paving - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.8899					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.8051**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**		**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0397	0.0182	0.2242	8.7000e-004	0.1255	6.5000e-004	0.1262	0.0333	6.0000e-004	0.0339		86.3450	86.3450	1.4200e-003		86.3805
Total	**0.0397**	**0.0182**	**0.2242**	**8.7000e-004**	**0.1255**	**6.5000e-004**	**0.1262**	**0.0333**	**6.0000e-004**	**0.0339**		**86.3450**	**86.3450**	**1.4200e-003**		**86.3805**

3.4 Paving - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.8899					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.8051**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0397	0.0182	0.2242	8.7000e-004	0.1255	6.5000e-004	0.1262	0.0333	6.0000e-004	0.0339		86.3450	86.3450	1.4200e-003		86.3805
Total	**0.0397**	**0.0182**	**0.2242**	**8.7000e-004**	**0.1255**	**6.5000e-004**	**0.1262**	**0.0333**	**6.0000e-004**	**0.0339**		**86.3450**	**86.3450**	**1.4200e-003**		**86.3805**

3.5 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	26.6966					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**26.8675**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1905	0.0873	1.0761	4.1500e-003	0.6024	3.1100e-003	0.6055	0.1598	2.8600e-003	0.1626		414.4560	414.4560	6.8200e-003		414.6265
Total	**0.1905**	**0.0873**	**1.0761**	**4.1500e-003**	**0.6024**	**3.1100e-003**	**0.6055**	**0.1598**	**2.8600e-003**	**0.1626**		**414.4560**	**414.4560**	**6.8200e-003**		**414.6265**

3.5 Architectural Coating - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	26.6966					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**26.8675**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1905	0.0873	1.0761	4.1500e-003	0.6024	3.1100e-003	0.6055	0.1598	2.8600e-003	0.1626		414.4560	414.4560	6.8200e-003		414.6265
Total	**0.1905**	**0.0873**	**1.0761**	**4.1500e-003**	**0.6024**	**3.1100e-003**	**0.6055**	**0.1598**	**2.8600e-003**	**0.1626**		**414.4560**	**414.4560**	**6.8200e-003**		**414.6265**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5897	4.6465	5.6255	0.0308	2.6181	0.0202	2.6384	0.7025	0.0189	0.7214		3,153.4369	3,153.4369	0.1363		3,156.8451
Unmitigated	0.5897	4.6465	5.6255	0.0308	2.6181	0.0202	2.6384	0.7025	0.0189	0.7214		3,153.4369	3,153.4369	0.1363		3,156.8451

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	367.19	367.19	367.19	862,800	862,800
Industrial Park	204.40	204.40	204.40	358,751	358,751
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	571.59	571.59	571.59	1,221,550	1,221,550

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	12.50	4.20	5.40	21.40	0.00	78.60	92	5	3
Industrial Park	12.50	4.20	5.40	5.00	0.00	95.00	79	19	2
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.491680	0.030621	0.167316	0.092503	0.058126	0.021874	0.039000	0.095000	0.000000	0.000000	0.003879	0.000000	0.000000
Industrial Park	0.594270	0.037010	0.202227	0.111804	0.036329	0.013671	0.000000	0.000000	0.000000	0.000000	0.004689	0.000000	0.000000
Other Asphalt Surfaces	0.558300	0.034770	0.189987	0.105037	0.011525	0.004337	0.017323	0.070222	0.001421	0.001101	0.004405	0.000867	0.000705
Other Non-Asphalt Surfaces	0.558300	0.034770	0.189987	0.105037	0.011525	0.004337	0.017323	0.070222	0.001421	0.001101	0.004405	0.000867	0.000705

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0854	0.7765	0.6523	4.6600e-003		0.0590	0.0590		0.0590	0.0590		931.8404	931.8404	0.0179	0.0171	937.3778
NaturalGas Unmitigated	0.0854	0.7765	0.6523	4.6600e-003		0.0590	0.0590		0.0590	0.0590		931.8404	931.8404	0.0179	0.0171	937.3778

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	6589.68	0.0711	0.6461	0.5427	3.8800e-003		0.0491	0.0491		0.0491	0.0491		775.2570	775.2570	0.0149	0.0142	779.8639
Industrial Park	1330.96	0.0144	0.1305	0.1096	7.8000e-004		9.9200e-003	9.9200e-003		9.9200e-003	9.9200e-003		156.5834	156.5834	3.0000e-003	2.8700e-003	157.5139
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0854**	**0.7765**	**0.6523**	**4.6600e-003**		**0.0590**	**0.0590**		**0.0590**	**0.0590**		**931.8404**	**931.8404**	**0.0179**	**0.0171**	**937.3778**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	6.58968	0.0711	0.6461	0.5427	3.8800e-003		0.0491	0.0491		0.0491	0.0491		775.2570	775.2570	0.0149	0.0142	779.8639
Industrial Park	1.33096	0.0144	0.1305	0.1096	7.8000e-004		9.9200e-003	9.9200e-003		9.9200e-003	9.9200e-003		156.5834	156.5834	3.0000e-003	2.8700e-003	157.5139
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0854**	**0.7765**	**0.6523**	**4.6600e-003**		**0.0590**	**0.0590**		**0.0590**	**0.0590**		**931.8404**	**931.8404**	**0.0179**	**0.0171**	**937.3778**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.2919	2.1000e-004	0.0233	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0501	0.0501	1.3000e-004		0.0533
Unmitigated	6.2919	2.1000e-004	0.0233	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0501	0.0501	1.3000e-004		0.0533

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.4815					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.8082					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1500e-003	2.1000e-004	0.0233	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0501	0.0501	1.3000e-004		0.0533
Total	**6.2919**	**2.1000e-004**	**0.0233**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0501**	**0.0501**	**1.3000e-004**		**0.0533**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.4815					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.8082					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1500e-003	2.1000e-004	0.0233	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0501	0.0501	1.3000e-004		0.0533
Total	**6.2919**	**2.1000e-004**	**0.0233**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0501**	**0.0501**	**1.3000e-004**		**0.0533**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

01-6627 DHS 109 - Off-site Improvements - CONSTRUCTION ANALYSIS ONLY

Riverside-Salton Sea County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	450.00	1000sqft	10.33	450,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2019
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CONSTRUCTION ANALYSIS ONLY - Off-site improvements

Land Use - Off-site improvements to include ~450 TSF of roadway improvements on 15th Avenue from Atlantic Avenue to Little Morongo, Atlantic Avenue from 16th Avenue to Dillon Rd, & 16th Avenue from Atlantic Avenue to the west project boundary.

Construction Phase - Off-site improvements anticipated to occur during grading of Phase 1 (grading modeled as 7/1/2019-10/11/2019).

Grading -

Energy Use -

Construction Off-road Equipment Mitigation -

Off-road Equipment - Off-site grading phase increased by ~1/3 the default timing; therefore, ~1/3 less equipment needed.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	18.00
tblConstructionPhase	NumDays	30.00	40.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	PhaseEndDate	10/4/2019	10/11/2019
tblConstructionPhase	PhaseEndDate	8/9/2019	8/25/2019
tblConstructionPhase	PhaseEndDate	9/6/2019	9/17/2019
tblConstructionPhase	PhaseStartDate	9/7/2019	9/18/2019
tblConstructionPhase	PhaseStartDate	8/10/2019	8/26/2019
tblGrading	AcresOfGrading	60.00	100.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblTripsAndVMT	WorkerTripNumber	13.00	20.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	17.8202	36.6395	20.4378	0.0403	8.8407	1.5923	10.4330	3.6409	1.4650	5.1058	0.0000	3,992.9580	3,992.9580	1.2140	0.0000	4,023.3076
Maximum	**17.8202**	**36.6395**	**20.4378**	**0.0403**	**8.8407**	**1.5923**	**10.4330**	**3.6409**	**1.4650**	**5.1058**	**0.0000**	**3,992.9580**	**3,992.9580**	**1.2140**	**0.0000**	**4,023.3076**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	17.8202	36.6395	20.4378	0.0403	3.5499	1.5923	5.1423	1.4470	1.4650	2.9120	0.0000	3,992.9580	3,992.9580	1.2140	0.0000	4,023.3076
Maximum	**17.8202**	**36.6395**	**20.4378**	**0.0403**	**3.5499**	**1.5923**	**5.1423**	**1.4470**	**1.4650**	**2.9120**	**0.0000**	**3,992.9580**	**3,992.9580**	**1.2140**	**0.0000**	**4,023.3076**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**59.85**	**0.00**	**50.71**	**60.26**	**0.00**	**42.97**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	7/1/2019	8/25/2019	5	40	
2	Paving	Paving	8/26/2019	9/17/2019	5	17	
3	Architectural Coating	Architectural Coating	9/18/2019	10/11/2019	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 100

Acres of Paving: 10.33

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 27,000

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	1	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	5	20.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	38.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.1801	36.5871	19.7495	0.0386		1.5913	1.5913		1.4640	1.4640		3,821.5376	3,821.5376	1.2091		3,851.7649
Total	**3.1801**	**36.5871**	**19.7495**	**0.0386**	**8.6733**	**1.5913**	**10.2646**	**3.5965**	**1.4640**	**5.0605**		**3,821.5376**	**3,821.5376**	**1.2091**		**3,851.7649**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0908	0.0524	0.6883	1.7200e-003	0.1673	1.0700e-003	0.1684	0.0444	9.8000e-004	0.0454		171.4204	171.4204	4.8900e-003		171.5427
Total	**0.0908**	**0.0524**	**0.6883**	**1.7200e-003**	**0.1673**	**1.0700e-003**	**0.1684**	**0.0444**	**9.8000e-004**	**0.0454**		**171.4204**	**171.4204**	**4.8900e-003**		**171.5427**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.1801	36.5871	19.7495	0.0386		1.5913	1.5913		1.4640	1.4640	0.0000	3,821.5376	3,821.5376	1.2091		3,851.7649
Total	**3.1801**	**36.5871**	**19.7495**	**0.0386**	**3.3826**	**1.5913**	**4.9739**	**1.4026**	**1.4640**	**2.8666**	**0.0000**	**3,821.5376**	**3,821.5376**	**1.2091**		**3,851.7649**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0908	0.0524	0.6883	1.7200e-003	0.1673	1.0700e-003	0.1684	0.0444	9.8000e-004	0.0454		171.4204	171.4204	4.8900e-003		171.5427
Total	**0.0908**	**0.0524**	**0.6883**	**1.7200e-003**	**0.1673**	**1.0700e-003**	**0.1684**	**0.0444**	**9.8000e-004**	**0.0454**		**171.4204**	**171.4204**	**4.8900e-003**		**171.5427**

3.3 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	1.5920					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.0465**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**		**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0681	0.0393	0.5163	1.2900e-003	0.1255	8.0000e-004	0.1263	0.0333	7.4000e-004	0.0340		128.5653	128.5653	3.6700e-003		128.6570
Total	**0.0681**	**0.0393**	**0.5163**	**1.2900e-003**	**0.1255**	**8.0000e-004**	**0.1263**	**0.0333**	**7.4000e-004**	**0.0340**		**128.5653**	**128.5653**	**3.6700e-003**		**128.6570**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	1.5920					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.0465**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**	**0.0000**	**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0681	0.0393	0.5163	1.2900e-003	0.1255	8.0000e-004	0.1263	0.0333	7.4000e-004	0.0340		128.5653	128.5653	3.6700e-003		128.6570
Total	**0.0681**	**0.0393**	**0.5163**	**1.2900e-003**	**0.1255**	**8.0000e-004**	**0.1263**	**0.0333**	**7.4000e-004**	**0.0340**		**128.5653**	**128.5653**	**3.6700e-003**		**128.6570**

3.4 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	17.3813					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	**17.6477**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**		**281.4481**	**281.4481**	**0.0238**		**282.0423**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1725	0.0995	1.3079	3.2700e-003	0.3179	2.0200e-003	0.3200	0.0843	1.8600e-003	0.0862		325.6988	325.6988	9.2900e-003		325.9311
Total	**0.1725**	**0.0995**	**1.3079**	**3.2700e-003**	**0.3179**	**2.0200e-003**	**0.3200**	**0.0843**	**1.8600e-003**	**0.0862**		**325.6988**	**325.6988**	**9.2900e-003**		**325.9311**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	17.3813					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	**17.6477**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**	**0.0000**	**281.4481**	**281.4481**	**0.0238**		**282.0423**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1725	0.0995	1.3079	3.2700e-003	0.3179	2.0200e-003	0.3200	0.0843	1.8600e-003	0.0862		325.6988	325.6988	9.2900e-003		325.9311
Total	**0.1725**	**0.0995**	**1.3079**	**3.2700e-003**	**0.3179**	**2.0200e-003**	**0.3200**	**0.0843**	**1.8600e-003**	**0.0862**		**325.6988**	**325.6988**	**9.2900e-003**		**325.9311**

01-6627 DHS 109 - Off-site Improvements - CONSTRUCTION ANALYSIS ONLY

Riverside-Salton Sea County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	450.00	1000sqft	10.33	450,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2019
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CONSTRUCTION ANALYSIS ONLY - Off-site improvements

Land Use - Off-site improvements to include ~450 TSF of roadway improvements on 15th Avenue from Atlantic Avenue to Little Morongo, Atlantic Avenue from 16th Avenue to Dillon Rd, & 16th Avenue from Atlantic Avenue to the west project boundary.

Construction Phase - Off-site improvements anticipated to occur during grading of Phase 1 (grading modeled as 7/1/2019-10/11/2019).

Grading -

Energy Use -

Construction Off-road Equipment Mitigation -

Off-road Equipment - Off-site grading phase increased by ~1/3 the default timing; therefore, ~1/3 less equipment needed.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	18.00
tblConstructionPhase	NumDays	30.00	40.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	PhaseEndDate	10/4/2019	10/11/2019
tblConstructionPhase	PhaseEndDate	8/9/2019	8/25/2019
tblConstructionPhase	PhaseEndDate	9/6/2019	9/17/2019
tblConstructionPhase	PhaseStartDate	9/7/2019	9/18/2019
tblConstructionPhase	PhaseStartDate	8/10/2019	8/26/2019
tblGrading	AcresOfGrading	60.00	100.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblTripsAndVMT	WorkerTripNumber	13.00	20.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	17.8123	36.6413	20.3149	0.0401	8.8407	1.5923	10.4330	3.6409	1.4650	5.1058	0.0000	3,975.4072	3,975.4072	1.2134	0.0000	4,005.7417
Maximum	**17.8123**	**36.6413**	**20.3149**	**0.0401**	**8.8407**	**1.5923**	**10.4330**	**3.6409**	**1.4650**	**5.1058**	**0.0000**	**3,975.4072**	**3,975.4072**	**1.2134**	**0.0000**	**4,005.7417**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	17.8123	36.6413	20.3149	0.0401	3.5499	1.5923	5.1423	1.4470	1.4650	2.9120	0.0000	3,975.4072	3,975.4072	1.2134	0.0000	4,005.7417
Maximum	**17.8123**	**36.6413**	**20.3149**	**0.0401**	**3.5499**	**1.5923**	**5.1423**	**1.4470**	**1.4650**	**2.9120**	**0.0000**	**3,975.4072**	**3,975.4072**	**1.2134**	**0.0000**	**4,005.7417**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**59.85**	**0.00**	**50.71**	**60.26**	**0.00**	**42.97**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	7/1/2019	8/25/2019	5	40	
2	Paving	Paving	8/26/2019	9/17/2019	5	17	
3	Architectural Coating	Architectural Coating	9/18/2019	10/11/2019	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 100

Acres of Paving: 10.33

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 27,000

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	1	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	5	20.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	38.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.1801	36.5871	19.7495	0.0386		1.5913	1.5913		1.4640	1.4640		3,821.5376	3,821.5376	1.2091		3,851.7649
Total	**3.1801**	**36.5871**	**19.7495**	**0.0386**	**8.6733**	**1.5913**	**10.2646**	**3.5965**	**1.4640**	**5.0605**		**3,821.5376**	**3,821.5376**	**1.2091**		**3,851.7649**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0866	0.0542	0.5655	1.5500e-003	0.1673	1.0700e-003	0.1684	0.0444	9.8000e-004	0.0454		153.8697	153.8697	4.2900e-003		153.9768
Total	**0.0866**	**0.0542**	**0.5655**	**1.5500e-003**	**0.1673**	**1.0700e-003**	**0.1684**	**0.0444**	**9.8000e-004**	**0.0454**		**153.8697**	**153.8697**	**4.2900e-003**		**153.9768**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	3.1801	36.5871	19.7495	0.0386		1.5913	1.5913		1.4640	1.4640	0.0000	3,821.5376	3,821.5376	1.2091		3,851.7649
Total	**3.1801**	**36.5871**	**19.7495**	**0.0386**	**3.3826**	**1.5913**	**4.9739**	**1.4026**	**1.4640**	**2.8666**	**0.0000**	**3,821.5376**	**3,821.5376**	**1.2091**		**3,851.7649**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0866	0.0542	0.5655	1.5500e-003	0.1673	1.0700e-003	0.1684	0.0444	9.8000e-004	0.0454		153.8697	153.8697	4.2900e-003		153.9768
Total	**0.0866**	**0.0542**	**0.5655**	**1.5500e-003**	**0.1673**	**1.0700e-003**	**0.1684**	**0.0444**	**9.8000e-004**	**0.0454**		**153.8697**	**153.8697**	**4.2900e-003**		**153.9768**

3.3 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	1.5920					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.0465**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**		**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0650	0.0407	0.4241	1.1600e-003	0.1255	8.0000e-004	0.1263	0.0333	7.4000e-004	0.0340		115.4022	115.4022	3.2100e-003		115.4826
Total	**0.0650**	**0.0407**	**0.4241**	**1.1600e-003**	**0.1255**	**8.0000e-004**	**0.1263**	**0.0333**	**7.4000e-004**	**0.0340**		**115.4022**	**115.4022**	**3.2100e-003**		**115.4826**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	1.5920					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.0465**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**	**0.0000**	**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0650	0.0407	0.4241	1.1600e-003	0.1255	8.0000e-004	0.1263	0.0333	7.4000e-004	0.0340		115.4022	115.4022	3.2100e-003		115.4826
Total	**0.0650**	**0.0407**	**0.4241**	**1.1600e-003**	**0.1255**	**8.0000e-004**	**0.1263**	**0.0333**	**7.4000e-004**	**0.0340**		**115.4022**	**115.4022**	**3.2100e-003**		**115.4826**

3.4 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	17.3813					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	**17.6477**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**		**281.4481**	**281.4481**	**0.0238**		**282.0423**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1646	0.1030	1.0744	2.9400e-003	0.3179	2.0200e-003	0.3200	0.0843	1.8600e-003	0.0862		292.3524	292.3524	8.1400e-003		292.5559
Total	**0.1646**	**0.1030**	**1.0744**	**2.9400e-003**	**0.3179**	**2.0200e-003**	**0.3200**	**0.0843**	**1.8600e-003**	**0.0862**		**292.3524**	**292.3524**	**8.1400e-003**		**292.5559**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	17.3813					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	**17.6477**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**	**0.0000**	**281.4481**	**281.4481**	**0.0238**		**282.0423**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1646	0.1030	1.0744	2.9400e-003	0.3179	2.0200e-003	0.3200	0.0843	1.8600e-003	0.0862		292.3524	292.3524	8.1400e-003		292.5559
Total	**0.1646**	**0.1030**	**1.0744**	**2.9400e-003**	**0.3179**	**2.0200e-003**	**0.3200**	**0.0843**	**1.8600e-003**	**0.0862**		**292.3524**	**292.3524**	**8.1400e-003**		**292.5559**

APPENDIX C

AERMOD MODEL PRINTOUTS

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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.6.5
** Lakes Environmental Software Inc.
** Date: 5/23/2019
** File: C:\Users\Catherine Howe\Desktop\DHS\Higher Cultivation\HRA\6627b DHS 109 - 1 yr\6627b DHS 109 - 1 yr.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Lakes\AERMOD View\6627 DHS 109 - 1 yr
   TITLETWO DHS 109 DPM Concentrations - 1 yr
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 2189641 Riverside_County
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "6627b DHS 109 - 1 yr.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC 15th Ave Eastern Project Driveway to Little Morongo
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000772
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 8
** 544362.703, 3755555.251, 288.03, 0.00, 1.70
** 543931.522, 3755552.148, 290.67, 0.00, 1.70
** 543892.903, 3755554.099, 290.96, 0.00, 1.70
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** 543741.619, 3755630.849, 293.68, 0.00, 1.70
** 543688.020, 3755631.150, 294.01, 0.00, 1.70
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   LOCATION L0050262     VOLUME   544353.559 3755555.185 288.14
   LOCATION L0050263     VOLUME   544349.902 3755555.159 288.17
   LOCATION L0050264     VOLUME   544346.244 3755555.133 288.21
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   LOCATION L0050292     VOLUME   544243.834 3755554.396 288.86
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   LOCATION L0050294     VOLUME   544236.519 3755554.343 288.90
   LOCATION L0050295     VOLUME   544232.862 3755554.317 288.92
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   LOCATION L0050303     VOLUME   544203.602 3755554.106 289.09
   LOCATION L0050304     VOLUME   544199.944 3755554.080 289.11
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LOCATION L0050312     VOLUME   544170.684 3755553.869 289.29
LOCATION L0050313     VOLUME   544167.026 3755553.843 289.31
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LOCATION L0050317     VOLUME   544152.396 3755553.738 289.39
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LOCATION L0050363     VOLUME   543984.151 3755552.527 290.27
LOCATION L0050364     VOLUME   543980.494 3755552.501 290.29
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LOCATION L0050366     VOLUME   543973.179 3755552.448 290.31
LOCATION L0050367     VOLUME   543969.521 3755552.422 290.32
LOCATION L0050368     VOLUME   543965.864 3755552.396 290.33
LOCATION L0050369     VOLUME   543962.206 3755552.369 290.34
LOCATION L0050370     VOLUME   543958.549 3755552.343 290.37
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LOCATION L0050372     VOLUME   543951.234 3755552.290 290.43
LOCATION L0050373     VOLUME   543947.576 3755552.264 290.47
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LOCATION L0050378     VOLUME   543929.291 3755552.261 290.61
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LOCATION L0050398     VOLUME   543859.375 3755568.790 291.46
LOCATION L0050399     VOLUME   543856.446 3755570.981 291.54
LOCATION L0050400     VOLUME   543853.517 3755573.172 291.61
LOCATION L0050401     VOLUME   543850.588 3755575.363 291.68
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LOCATION L0050406     VOLUME   543835.945 3755586.318 292.05
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   LOCATION L0050442     VOLUME   543715.231 3755630.998 293.80
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   LOCATION L0050445     VOLUME   543704.258 3755631.059 293.87
   LOCATION L0050446     VOLUME   543700.601 3755631.080 293.89
   LOCATION L0050447     VOLUME   543696.943 3755631.100 293.91
   LOCATION L0050448     VOLUME   543693.286 3755631.121 293.94
   LOCATION L0050449     VOLUME   543689.628 3755631.141 293.96
** End of LINE VOLUME Source ID = SLINE1
   LOCATION STCK1        POINT      544038.843  3755457.527      288.120
   LOCATION STCK2        POINT      543964.443  3755485.784      288.950
   LOCATION STCK3        POINT      544154.057  3754819.560      276.320
   LOCATION STCK4        POINT      544242.294  3754819.553      275.850
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
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** DESCRSRC On-site along Street A
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.000108
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
** 544361.162, 3755547.969, 287.87, 0.00, 1.70
** 544366.590, 3754744.006, 273.55, 0.00, 1.70
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   LOCATION L0050475     VOLUME   544361.791 3755454.703 286.58
   LOCATION L0050476     VOLUME   544361.816 3755451.045 286.51
   LOCATION L0050477     VOLUME   544361.841 3755447.388 286.45
   LOCATION L0050478     VOLUME   544361.865 3755443.730 286.38
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   LOCATION L0050486     VOLUME   544362.063 3755414.470 285.85
   LOCATION L0050487     VOLUME   544362.088 3755410.812 285.78
   LOCATION L0050488     VOLUME   544362.112 3755407.155 285.71
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC On-site along Street B/Street F
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
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** Elevated
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** End of LINE VOLUME Source ID = SLINE4
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** DESCRSRC Little Morongo from 15th Ave to Dillon Rd
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.00013
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
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LOCATION L0051111     VOLUME   543681.249 3754936.120 281.50
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** End of LINE VOLUME Source ID = SLINE5
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC Dillon Rd from Little Morongo to Indian Canyon Dr
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000709
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
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** DESCRSRC Indian Canyon south of Dillon Rd
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000277
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
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LOCATION L0052019     VOLUME   542031.446 3753239.386 252.80
LOCATION L0052020     VOLUME   542031.414 3753235.728 252.73
LOCATION L0052021     VOLUME   542031.382 3753232.071 252.65
LOCATION L0052022     VOLUME   542031.350 3753228.413 252.58
LOCATION L0052023     VOLUME   542031.318 3753224.756 252.51
LOCATION L0052024     VOLUME   542031.285 3753221.098 252.43
LOCATION L0052025     VOLUME   542031.253 3753217.441 252.36
LOCATION L0052026     VOLUME   542031.221 3753213.783 252.29
LOCATION L0052027     VOLUME   542031.189 3753210.126 252.21
LOCATION L0052028     VOLUME   542031.157 3753206.469 252.14
LOCATION L0052029     VOLUME   542031.125 3753202.811 252.06
LOCATION L0052030     VOLUME   542031.093 3753199.154 251.99
LOCATION L0052031     VOLUME   542031.061 3753195.496 251.91
LOCATION L0052032     VOLUME   542031.029 3753191.839 251.83
LOCATION L0052033     VOLUME   542030.996 3753188.181 251.76
LOCATION L0052034     VOLUME   542030.964 3753184.524 251.68
LOCATION L0052035     VOLUME   542030.932 3753180.866 251.60
LOCATION L0052036     VOLUME   542030.900 3753177.209 251.52
LOCATION L0052037     VOLUME   542030.868 3753173.551 251.44
LOCATION L0052038     VOLUME   542030.836 3753169.894 251.35
LOCATION L0052039     VOLUME   542030.804 3753166.236 251.27
LOCATION L0052040     VOLUME   542030.772 3753162.579 251.19
LOCATION L0052041     VOLUME   542030.740 3753158.922 251.10
LOCATION L0052042     VOLUME   542030.707 3753155.264 251.02
LOCATION L0052043     VOLUME   542030.675 3753151.607 250.94
LOCATION L0052044     VOLUME   542030.643 3753147.949 250.85
LOCATION L0052045     VOLUME   542030.611 3753144.292 250.75
LOCATION L0052046     VOLUME   542030.579 3753140.634 250.64
LOCATION L0052047     VOLUME   542030.547 3753136.977 250.54
LOCATION L0052048     VOLUME   542030.515 3753133.319 250.43
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   LOCATION L0052049     VOLUME   542030.483 3753129.662 250.33
   LOCATION L0052050     VOLUME   542030.451 3753126.004 250.22
   LOCATION L0052051     VOLUME   542030.418 3753122.347 250.11
** End of LINE VOLUME Source ID = SLINE7
   LOCATION STCK5        POINT      544098.081  3755457.037      287.930
** DESCRSRC Loading 2
   LOCATION STCK6        POINT      544228.210  3755457.220      287.390
   LOCATION STCK7        POINT      544288.730  3755456.950      287.040
   LOCATION STCK8        POINT      543964.090  3755374.250      286.830
   LOCATION STCK9        POINT      544038.290  3755339.920      285.950
   LOCATION STCK10       POINT      544095.710  3755341.430      285.760
   LOCATION STCK11       POINT      544222.780  3755337.360      285.250
   LOCATION STCK12       POINT      544287.620  3755338.410      284.960
   LOCATION STCK13       POINT      544383.950  3755371.980      284.940
   LOCATION STCK14       POINT      544385.650  3755307.270      283.900
   LOCATION STCK15       POINT      544039.120  3755242.560      283.550
   LOCATION STCK16       POINT      544102.120  3755240.860      283.580
   LOCATION STCK18       POINT      544221.320  3755240.860      283.510
   LOCATION STCK19       POINT      544286.030  3755242.560      283.350
   LOCATION STCK20       POINT      544163.430  3755195.730      282.910
   LOCATION STCK21       POINT      544235.800  3755196.580      282.760
   LOCATION STCK22       POINT      544091.910  3755163.380      282.380
   LOCATION STCK23       POINT      544292.840  3755160.820      281.970
   LOCATION STCK24       POINT      544383.320  3755192.490      282.170
   LOCATION STCK25       POINT      544382.470  3755120.120      280.940
   LOCATION STCK26       POINT      544167.160  3755002.480      279.520
   LOCATION STCK27       POINT      544222.260  3755001.480      279.290
   LOCATION STCK28       POINT      544294.390  3755041.550      279.760
   LOCATION STCK29       POINT      544379.530  3755001.480      278.540
   LOCATION STCK30       POINT      544379.730  3754935.820      277.210
   LOCATION STCK31       POINT      544291.130  3754901.370      277.030
   LOCATION STCK32       POINT      544165.610  3754937.670      278.260
   LOCATION STCK33       POINT      544235.140  3754937.050      277.970
   LOCATION STCK34       POINT      544317.590  3754820.760      275.350
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE11
** DESCRSRC On-site Along Street E
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000404
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
** 543899.882, 3755432.329, 288.32, 0.00, 1.70
** 544356.428, 3755432.147, 286.24, 0.00, 1.70
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   LOCATION L0052053     VOLUME   543905.369 3755432.327 288.26
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LOCATION L0052054     VOLUME   543909.026 3755432.325 288.23
LOCATION L0052055     VOLUME   543912.684 3755432.324 288.20
LOCATION L0052056     VOLUME   543916.341 3755432.323 288.16
LOCATION L0052057     VOLUME   543919.999 3755432.321 288.12
LOCATION L0052058     VOLUME   543923.657 3755432.320 288.09
LOCATION L0052059     VOLUME   543927.314 3755432.318 288.05
LOCATION L0052060     VOLUME   543930.972 3755432.317 288.01
LOCATION L0052061     VOLUME   543934.629 3755432.315 287.98
LOCATION L0052062     VOLUME   543938.287 3755432.314 287.94
LOCATION L0052063     VOLUME   543941.945 3755432.312 287.91
LOCATION L0052064     VOLUME   543945.602 3755432.311 287.87
LOCATION L0052065     VOLUME   543949.260 3755432.309 287.84
LOCATION L0052066     VOLUME   543952.917 3755432.308 287.80
LOCATION L0052067     VOLUME   543956.575 3755432.306 287.77
LOCATION L0052068     VOLUME   543960.233 3755432.305 287.73
LOCATION L0052069     VOLUME   543963.890 3755432.304 287.72
LOCATION L0052070     VOLUME   543967.548 3755432.302 287.72
LOCATION L0052071     VOLUME   543971.205 3755432.301 287.72
LOCATION L0052072     VOLUME   543974.863 3755432.299 287.72
LOCATION L0052073     VOLUME   543978.521 3755432.298 287.72
LOCATION L0052074     VOLUME   543982.178 3755432.296 287.72
LOCATION L0052075     VOLUME   543985.836 3755432.295 287.72
LOCATION L0052076     VOLUME   543989.493 3755432.293 287.71
LOCATION L0052077     VOLUME   543993.151 3755432.292 287.70
LOCATION L0052078     VOLUME   543996.809 3755432.290 287.68
LOCATION L0052079     VOLUME   544000.466 3755432.289 287.67
LOCATION L0052080     VOLUME   544004.124 3755432.288 287.66
LOCATION L0052081     VOLUME   544007.781 3755432.286 287.65
LOCATION L0052082     VOLUME   544011.439 3755432.285 287.64
LOCATION L0052083     VOLUME   544015.097 3755432.283 287.63
LOCATION L0052084     VOLUME   544018.754 3755432.282 287.63
LOCATION L0052085     VOLUME   544022.412 3755432.280 287.63
LOCATION L0052086     VOLUME   544026.069 3755432.279 287.62
LOCATION L0052087     VOLUME   544029.727 3755432.277 287.62
LOCATION L0052088     VOLUME   544033.385 3755432.276 287.62
LOCATION L0052089     VOLUME   544037.042 3755432.274 287.62
LOCATION L0052090     VOLUME   544040.700 3755432.273 287.62
LOCATION L0052091     VOLUME   544044.357 3755432.271 287.62
LOCATION L0052092     VOLUME   544048.015 3755432.270 287.62
LOCATION L0052093     VOLUME   544051.673 3755432.269 287.62
LOCATION L0052094     VOLUME   544055.330 3755432.267 287.62
LOCATION L0052095     VOLUME   544058.988 3755432.266 287.62
LOCATION L0052096     VOLUME   544062.645 3755432.264 287.62
LOCATION L0052097     VOLUME   544066.303 3755432.263 287.61
LOCATION L0052098     VOLUME   544069.961 3755432.261 287.60
LOCATION L0052099     VOLUME   544073.618 3755432.260 287.58
LOCATION L0052100     VOLUME   544077.276 3755432.258 287.57
LOCATION L0052101     VOLUME   544080.933 3755432.257 287.56
LOCATION L0052102     VOLUME   544084.591 3755432.255 287.54
LOCATION L0052103     VOLUME   544088.249 3755432.254 287.53
LOCATION L0052104     VOLUME   544091.906 3755432.253 287.52
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LOCATION L0052105     VOLUME   544095.564 3755432.251 287.50
LOCATION L0052106     VOLUME   544099.221 3755432.250 287.49
LOCATION L0052107     VOLUME   544102.879 3755432.248 287.47
LOCATION L0052108     VOLUME   544106.537 3755432.247 287.46
LOCATION L0052109     VOLUME   544110.194 3755432.245 287.44
LOCATION L0052110     VOLUME   544113.852 3755432.244 287.43
LOCATION L0052111     VOLUME   544117.509 3755432.242 287.42
LOCATION L0052112     VOLUME   544121.167 3755432.241 287.40
LOCATION L0052113     VOLUME   544124.825 3755432.239 287.38
LOCATION L0052114     VOLUME   544128.482 3755432.238 287.37
LOCATION L0052115     VOLUME   544132.140 3755432.237 287.35
LOCATION L0052116     VOLUME   544135.797 3755432.235 287.34
LOCATION L0052117     VOLUME   544139.455 3755432.234 287.32
LOCATION L0052118     VOLUME   544143.113 3755432.232 287.31
LOCATION L0052119     VOLUME   544146.770 3755432.231 287.30
LOCATION L0052120     VOLUME   544150.428 3755432.229 287.28
LOCATION L0052121     VOLUME   544154.085 3755432.228 287.27
LOCATION L0052122     VOLUME   544157.743 3755432.226 287.26
LOCATION L0052123     VOLUME   544161.401 3755432.225 287.24
LOCATION L0052124     VOLUME   544165.058 3755432.223 287.23
LOCATION L0052125     VOLUME   544168.716 3755432.222 287.21
LOCATION L0052126     VOLUME   544172.373 3755432.220 287.19
LOCATION L0052127     VOLUME   544176.031 3755432.219 287.18
LOCATION L0052128     VOLUME   544179.689 3755432.218 287.16
LOCATION L0052129     VOLUME   544183.346 3755432.216 287.14
LOCATION L0052130     VOLUME   544187.004 3755432.215 287.12
LOCATION L0052131     VOLUME   544190.661 3755432.213 287.11
LOCATION L0052132     VOLUME   544194.319 3755432.212 287.09
LOCATION L0052133     VOLUME   544197.977 3755432.210 287.08
LOCATION L0052134     VOLUME   544201.634 3755432.209 287.07
LOCATION L0052135     VOLUME   544205.292 3755432.207 287.06
LOCATION L0052136     VOLUME   544208.949 3755432.206 287.05
LOCATION L0052137     VOLUME   544212.607 3755432.204 287.03
LOCATION L0052138     VOLUME   544216.265 3755432.203 287.02
LOCATION L0052139     VOLUME   544219.922 3755432.202 287.01
LOCATION L0052140     VOLUME   544223.580 3755432.200 286.99
LOCATION L0052141     VOLUME   544227.237 3755432.199 286.97
LOCATION L0052142     VOLUME   544230.895 3755432.197 286.95
LOCATION L0052143     VOLUME   544234.553 3755432.196 286.93
LOCATION L0052144     VOLUME   544238.210 3755432.194 286.91
LOCATION L0052145     VOLUME   544241.868 3755432.193 286.89
LOCATION L0052146     VOLUME   544245.525 3755432.191 286.87
LOCATION L0052147     VOLUME   544249.183 3755432.190 286.85
LOCATION L0052148     VOLUME   544252.841 3755432.188 286.83
LOCATION L0052149     VOLUME   544256.498 3755432.187 286.82
LOCATION L0052150     VOLUME   544260.156 3755432.185 286.80
LOCATION L0052151     VOLUME   544263.813 3755432.184 286.78
LOCATION L0052152     VOLUME   544267.471 3755432.183 286.76
LOCATION L0052153     VOLUME   544271.129 3755432.181 286.74
LOCATION L0052154     VOLUME   544274.786 3755432.180 286.71
LOCATION L0052155     VOLUME   544278.444 3755432.178 286.69
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   LOCATION L0052156     VOLUME   544282.101 3755432.177 286.67
   LOCATION L0052157     VOLUME   544285.759 3755432.175 286.64
   LOCATION L0052158     VOLUME   544289.417 3755432.174 286.62
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   LOCATION L0052161     VOLUME   544300.389 3755432.169 286.56
   LOCATION L0052162     VOLUME   544304.047 3755432.168 286.53
   LOCATION L0052163     VOLUME   544307.705 3755432.167 286.51
   LOCATION L0052164     VOLUME   544311.362 3755432.165 286.49
   LOCATION L0052165     VOLUME   544315.020 3755432.164 286.47
   LOCATION L0052166     VOLUME   544318.677 3755432.162 286.45
   LOCATION L0052167     VOLUME   544322.335 3755432.161 286.43
   LOCATION L0052168     VOLUME   544325.993 3755432.159 286.40
   LOCATION L0052169     VOLUME   544329.650 3755432.158 286.38
   LOCATION L0052170     VOLUME   544333.308 3755432.156 286.36
   LOCATION L0052171     VOLUME   544336.965 3755432.155 286.33
   LOCATION L0052172     VOLUME   544340.623 3755432.153 286.31
   LOCATION L0052173     VOLUME   544344.281 3755432.152 286.29
   LOCATION L0052174     VOLUME   544347.938 3755432.151 286.26
   LOCATION L0052175     VOLUME   544351.596 3755432.149 286.24
   LOCATION L0052176     VOLUME   544355.253 3755432.148 286.22
** End of LINE VOLUME Source ID = SLINE11
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE12
** DESCRSRC On-site along Street D
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000355
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 4
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** 543998.623, 3755216.757, 283.88, 0.00, 1.70
** 544012.518, 3755219.423, 283.43, 0.00, 1.70
** 544357.579, 3755217.675, 282.67, 0.00, 1.70
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   LOCATION L0052178     VOLUME   543965.267 3755202.628 284.00
   LOCATION L0052179     VOLUME   543968.635 3755204.055 283.99
   LOCATION L0052180     VOLUME   543972.003 3755205.481 283.98
   LOCATION L0052181     VOLUME   543975.371 3755206.908 283.97
   LOCATION L0052182     VOLUME   543978.739 3755208.334 283.96
   LOCATION L0052183     VOLUME   543982.107 3755209.761 283.95
   LOCATION L0052184     VOLUME   543985.475 3755211.187 283.94
   LOCATION L0052185     VOLUME   543988.843 3755212.614 283.92
   LOCATION L0052186     VOLUME   543992.211 3755214.041 283.87
   LOCATION L0052187     VOLUME   543995.579 3755215.467 283.82
   LOCATION L0052188     VOLUME   543998.968 3755216.823 283.76
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LOCATION L0052190     VOLUME   544006.152 3755218.202 283.60
LOCATION L0052191     VOLUME   544009.744 3755218.891 283.51
LOCATION L0052192     VOLUME   544013.351 3755219.419 283.43
LOCATION L0052193     VOLUME   544017.009 3755219.401 283.39
LOCATION L0052194     VOLUME   544020.666 3755219.382 283.35
LOCATION L0052195     VOLUME   544024.324 3755219.364 283.31
LOCATION L0052196     VOLUME   544027.981 3755219.345 283.28
LOCATION L0052197     VOLUME   544031.639 3755219.326 283.24
LOCATION L0052198     VOLUME   544035.297 3755219.308 283.20
LOCATION L0052199     VOLUME   544038.954 3755219.289 283.17
LOCATION L0052200     VOLUME   544042.612 3755219.271 283.16
LOCATION L0052201     VOLUME   544046.269 3755219.252 283.16
LOCATION L0052202     VOLUME   544049.927 3755219.234 283.16
LOCATION L0052203     VOLUME   544053.584 3755219.215 283.16
LOCATION L0052204     VOLUME   544057.242 3755219.197 283.15
LOCATION L0052205     VOLUME   544060.899 3755219.178 283.15
LOCATION L0052206     VOLUME   544064.557 3755219.160 283.15
LOCATION L0052207     VOLUME   544068.215 3755219.141 283.16
LOCATION L0052208     VOLUME   544071.872 3755219.123 283.16
LOCATION L0052209     VOLUME   544075.530 3755219.104 283.17
LOCATION L0052210     VOLUME   544079.187 3755219.086 283.18
LOCATION L0052211     VOLUME   544082.845 3755219.067 283.19
LOCATION L0052212     VOLUME   544086.502 3755219.048 283.20
LOCATION L0052213     VOLUME   544090.160 3755219.030 283.20
LOCATION L0052214     VOLUME   544093.817 3755219.011 283.20
LOCATION L0052215     VOLUME   544097.475 3755218.993 283.20
LOCATION L0052216     VOLUME   544101.133 3755218.974 283.20
LOCATION L0052217     VOLUME   544104.790 3755218.956 283.20
LOCATION L0052218     VOLUME   544108.448 3755218.937 283.20
LOCATION L0052219     VOLUME   544112.105 3755218.919 283.20
LOCATION L0052220     VOLUME   544115.763 3755218.900 283.20
LOCATION L0052221     VOLUME   544119.420 3755218.882 283.20
LOCATION L0052222     VOLUME   544123.078 3755218.863 283.21
LOCATION L0052223     VOLUME   544126.735 3755218.845 283.22
LOCATION L0052224     VOLUME   544130.393 3755218.826 283.23
LOCATION L0052225     VOLUME   544134.050 3755218.807 283.24
LOCATION L0052226     VOLUME   544137.708 3755218.789 283.24
LOCATION L0052227     VOLUME   544141.366 3755218.770 283.25
LOCATION L0052228     VOLUME   544145.023 3755218.752 283.25
LOCATION L0052229     VOLUME   544148.681 3755218.733 283.25
LOCATION L0052230     VOLUME   544152.338 3755218.715 283.25
LOCATION L0052231     VOLUME   544155.996 3755218.696 283.25
LOCATION L0052232     VOLUME   544159.653 3755218.678 283.25
LOCATION L0052233     VOLUME   544163.311 3755218.659 283.25
LOCATION L0052234     VOLUME   544166.968 3755218.641 283.25
LOCATION L0052235     VOLUME   544170.626 3755218.622 283.25
LOCATION L0052236     VOLUME   544174.284 3755218.604 283.24
LOCATION L0052237     VOLUME   544177.941 3755218.585 283.23
LOCATION L0052238     VOLUME   544181.599 3755218.567 283.22
LOCATION L0052239     VOLUME   544185.256 3755218.548 283.21
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   LOCATION L0052240     VOLUME   544188.914 3755218.529 283.20
   LOCATION L0052241     VOLUME   544192.571 3755218.511 283.19
   LOCATION L0052242     VOLUME   544196.229 3755218.492 283.19
   LOCATION L0052243     VOLUME   544199.886 3755218.474 283.18
   LOCATION L0052244     VOLUME   544203.544 3755218.455 283.17
   LOCATION L0052245     VOLUME   544207.202 3755218.437 283.17
   LOCATION L0052246     VOLUME   544210.859 3755218.418 283.16
   LOCATION L0052247     VOLUME   544214.517 3755218.400 283.16
   LOCATION L0052248     VOLUME   544218.174 3755218.381 283.15
   LOCATION L0052249     VOLUME   544221.832 3755218.363 283.14
   LOCATION L0052250     VOLUME   544225.489 3755218.344 283.13
   LOCATION L0052251     VOLUME   544229.147 3755218.326 283.11
   LOCATION L0052252     VOLUME   544232.804 3755218.307 283.10
   LOCATION L0052253     VOLUME   544236.462 3755218.288 283.09
   LOCATION L0052254     VOLUME   544240.120 3755218.270 283.08
   LOCATION L0052255     VOLUME   544243.777 3755218.251 283.06
   LOCATION L0052256     VOLUME   544247.435 3755218.233 283.05
   LOCATION L0052257     VOLUME   544251.092 3755218.214 283.04
   LOCATION L0052258     VOLUME   544254.750 3755218.196 283.03
   LOCATION L0052259     VOLUME   544258.407 3755218.177 283.02
   LOCATION L0052260     VOLUME   544262.065 3755218.159 283.01
   LOCATION L0052261     VOLUME   544265.722 3755218.140 283.00
   LOCATION L0052262     VOLUME   544269.380 3755218.122 282.98
   LOCATION L0052263     VOLUME   544273.037 3755218.103 282.97
   LOCATION L0052264     VOLUME   544276.695 3755218.085 282.96
   LOCATION L0052265     VOLUME   544280.353 3755218.066 282.95
   LOCATION L0052266     VOLUME   544284.010 3755218.048 282.94
   LOCATION L0052267     VOLUME   544287.668 3755218.029 282.93
   LOCATION L0052268     VOLUME   544291.325 3755218.010 282.92
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   LOCATION L0052276     VOLUME   544320.586 3755217.862 282.78
   LOCATION L0052277     VOLUME   544324.243 3755217.844 282.76
   LOCATION L0052278     VOLUME   544327.901 3755217.825 282.75
   LOCATION L0052279     VOLUME   544331.558 3755217.807 282.74
   LOCATION L0052280     VOLUME   544335.216 3755217.788 282.73
   LOCATION L0052281     VOLUME   544338.873 3755217.769 282.72
   LOCATION L0052282     VOLUME   544342.531 3755217.751 282.71
   LOCATION L0052283     VOLUME   544346.189 3755217.732 282.70
   LOCATION L0052284     VOLUME   544349.846 3755217.714 282.68
   LOCATION L0052285     VOLUME   544353.504 3755217.695 282.66
   LOCATION L0052286     VOLUME   544357.161 3755217.677 282.64
** End of LINE VOLUME Source ID = SLINE12
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE13
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** DESCRSRC On-site along Street C
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000229
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
** 544100.737, 3754969.508, 279.09, 0.00, 1.70
** 544358.807, 3754970.151, 277.94, 0.00, 1.70
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   LOCATION L0052287     VOLUME   544102.565 3754969.512 279.04
   LOCATION L0052288     VOLUME   544106.223 3754969.522 279.03
   LOCATION L0052289     VOLUME   544109.880 3754969.531 279.02
   LOCATION L0052290     VOLUME   544113.538 3754969.540 279.01
   LOCATION L0052291     VOLUME   544117.196 3754969.549 279.01
   LOCATION L0052292     VOLUME   544120.853 3754969.558 279.00
   LOCATION L0052293     VOLUME   544124.511 3754969.567 278.99
   LOCATION L0052294     VOLUME   544128.168 3754969.576 278.99
   LOCATION L0052295     VOLUME   544131.826 3754969.585 278.98
   LOCATION L0052296     VOLUME   544135.484 3754969.594 278.97
   LOCATION L0052297     VOLUME   544139.141 3754969.604 278.97
   LOCATION L0052298     VOLUME   544142.799 3754969.613 278.96
   LOCATION L0052299     VOLUME   544146.456 3754969.622 278.95
   LOCATION L0052300     VOLUME   544150.114 3754969.631 278.93
   LOCATION L0052301     VOLUME   544153.772 3754969.640 278.92
   LOCATION L0052302     VOLUME   544157.429 3754969.649 278.90
   LOCATION L0052303     VOLUME   544161.087 3754969.658 278.89
   LOCATION L0052304     VOLUME   544164.744 3754969.667 278.87
   LOCATION L0052305     VOLUME   544168.402 3754969.676 278.86
   LOCATION L0052306     VOLUME   544172.060 3754969.686 278.85
   LOCATION L0052307     VOLUME   544175.717 3754969.695 278.83
   LOCATION L0052308     VOLUME   544179.375 3754969.704 278.82
   LOCATION L0052309     VOLUME   544183.032 3754969.713 278.81
   LOCATION L0052310     VOLUME   544186.690 3754969.722 278.79
   LOCATION L0052311     VOLUME   544190.347 3754969.731 278.78
   LOCATION L0052312     VOLUME   544194.005 3754969.740 278.77
   LOCATION L0052313     VOLUME   544197.663 3754969.749 278.76
   LOCATION L0052314     VOLUME   544201.320 3754969.758 278.74
   LOCATION L0052315     VOLUME   544204.978 3754969.768 278.73
   LOCATION L0052316     VOLUME   544208.635 3754969.777 278.72
   LOCATION L0052317     VOLUME   544212.293 3754969.786 278.71
   LOCATION L0052318     VOLUME   544215.951 3754969.795 278.69
   LOCATION L0052319     VOLUME   544219.608 3754969.804 278.68
   LOCATION L0052320     VOLUME   544223.266 3754969.813 278.66
   LOCATION L0052321     VOLUME   544226.923 3754969.822 278.65
   LOCATION L0052322     VOLUME   544230.581 3754969.831 278.63
   LOCATION L0052323     VOLUME   544234.239 3754969.840 278.62
   LOCATION L0052324     VOLUME   544237.896 3754969.850 278.60
   LOCATION L0052325     VOLUME   544241.554 3754969.859 278.58
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   LOCATION L0052326     VOLUME   544245.211 3754969.868 278.57
   LOCATION L0052327     VOLUME   544248.869 3754969.877 278.55
   LOCATION L0052328     VOLUME   544252.526 3754969.886 278.53
   LOCATION L0052329     VOLUME   544256.184 3754969.895 278.52
   LOCATION L0052330     VOLUME   544259.842 3754969.904 278.50
   LOCATION L0052331     VOLUME   544263.499 3754969.913 278.49
   LOCATION L0052332     VOLUME   544267.157 3754969.922 278.47
   LOCATION L0052333     VOLUME   544270.814 3754969.932 278.45
   LOCATION L0052334     VOLUME   544274.472 3754969.941 278.43
   LOCATION L0052335     VOLUME   544278.130 3754969.950 278.41
   LOCATION L0052336     VOLUME   544281.787 3754969.959 278.39
   LOCATION L0052337     VOLUME   544285.445 3754969.968 278.37
   LOCATION L0052338     VOLUME   544289.102 3754969.977 278.35
   LOCATION L0052339     VOLUME   544292.760 3754969.986 278.33
   LOCATION L0052340     VOLUME   544296.418 3754969.995 278.31
   LOCATION L0052341     VOLUME   544300.075 3754970.004 278.29
   LOCATION L0052342     VOLUME   544303.733 3754970.013 278.27
   LOCATION L0052343     VOLUME   544307.390 3754970.023 278.25
   LOCATION L0052344     VOLUME   544311.048 3754970.032 278.23
   LOCATION L0052345     VOLUME   544314.705 3754970.041 278.22
   LOCATION L0052346     VOLUME   544318.363 3754970.050 278.20
   LOCATION L0052347     VOLUME   544322.021 3754970.059 278.18
   LOCATION L0052348     VOLUME   544325.678 3754970.068 278.16
   LOCATION L0052349     VOLUME   544329.336 3754970.077 278.15
   LOCATION L0052350     VOLUME   544332.993 3754970.086 278.13
   LOCATION L0052351     VOLUME   544336.651 3754970.095 278.12
   LOCATION L0052352     VOLUME   544340.309 3754970.105 278.10
   LOCATION L0052353     VOLUME   544343.966 3754970.114 278.09
   LOCATION L0052354     VOLUME   544347.624 3754970.123 278.07
   LOCATION L0052355     VOLUME   544351.281 3754970.132 278.05
   LOCATION L0052356     VOLUME   544354.939 3754970.141 278.03
   LOCATION L0052357     VOLUME   544358.597 3754970.150 278.02
** End of LINE VOLUME Source ID = SLINE13
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE14
** DESCRSRC Little Morongo - 15th Ave to 2 Bunch Palms Trail
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000251
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
** 543688.071, 3755635.085, 294.12, 0.00, 1.70
** 543690.283, 3756364.348, 307.62, 0.00, 1.70
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   LOCATION L0052358     VOLUME   543688.077 3755636.914 294.09
   LOCATION L0052359     VOLUME   543688.088 3755640.571 294.17
   LOCATION L0052360     VOLUME   543688.099 3755644.229 294.24
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LOCATION L0052361     VOLUME   543688.110 3755647.887 294.32
LOCATION L0052362     VOLUME   543688.121 3755651.544 294.40
LOCATION L0052363     VOLUME   543688.132 3755655.202 294.47
LOCATION L0052364     VOLUME   543688.143 3755658.859 294.55
LOCATION L0052365     VOLUME   543688.154 3755662.517 294.63
LOCATION L0052366     VOLUME   543688.165 3755666.174 294.70
LOCATION L0052367     VOLUME   543688.176 3755669.832 294.78
LOCATION L0052368     VOLUME   543688.188 3755673.490 294.86
LOCATION L0052369     VOLUME   543688.199 3755677.147 294.93
LOCATION L0052370     VOLUME   543688.210 3755680.805 295.01
LOCATION L0052371     VOLUME   543688.221 3755684.462 295.09
LOCATION L0052372     VOLUME   543688.232 3755688.120 295.17
LOCATION L0052373     VOLUME   543688.243 3755691.778 295.24
LOCATION L0052374     VOLUME   543688.254 3755695.435 295.32
LOCATION L0052375     VOLUME   543688.265 3755699.093 295.40
LOCATION L0052376     VOLUME   543688.276 3755702.750 295.48
LOCATION L0052377     VOLUME   543688.287 3755706.408 295.55
LOCATION L0052378     VOLUME   543688.298 3755710.065 295.63
LOCATION L0052379     VOLUME   543688.310 3755713.723 295.71
LOCATION L0052380     VOLUME   543688.321 3755717.381 295.79
LOCATION L0052381     VOLUME   543688.332 3755721.038 295.86
LOCATION L0052382     VOLUME   543688.343 3755724.696 295.94
LOCATION L0052383     VOLUME   543688.354 3755728.353 296.02
LOCATION L0052384     VOLUME   543688.365 3755732.011 296.10
LOCATION L0052385     VOLUME   543688.376 3755735.669 296.18
LOCATION L0052386     VOLUME   543688.387 3755739.326 296.26
LOCATION L0052387     VOLUME   543688.398 3755742.984 296.33
LOCATION L0052388     VOLUME   543688.409 3755746.641 296.41
LOCATION L0052389     VOLUME   543688.421 3755750.299 296.48
LOCATION L0052390     VOLUME   543688.432 3755753.956 296.56
LOCATION L0052391     VOLUME   543688.443 3755757.614 296.63
LOCATION L0052392     VOLUME   543688.454 3755761.272 296.71
LOCATION L0052393     VOLUME   543688.465 3755764.929 296.78
LOCATION L0052394     VOLUME   543688.476 3755768.587 296.85
LOCATION L0052395     VOLUME   543688.487 3755772.244 296.93
LOCATION L0052396     VOLUME   543688.498 3755775.902 297.00
LOCATION L0052397     VOLUME   543688.509 3755779.560 297.08
LOCATION L0052398     VOLUME   543688.520 3755783.217 297.15
LOCATION L0052399     VOLUME   543688.531 3755786.875 297.22
LOCATION L0052400     VOLUME   543688.543 3755790.532 297.30
LOCATION L0052401     VOLUME   543688.554 3755794.190 297.37
LOCATION L0052402     VOLUME   543688.565 3755797.847 297.44
LOCATION L0052403     VOLUME   543688.576 3755801.505 297.51
LOCATION L0052404     VOLUME   543688.587 3755805.163 297.59
LOCATION L0052405     VOLUME   543688.598 3755808.820 297.66
LOCATION L0052406     VOLUME   543688.609 3755812.478 297.73
LOCATION L0052407     VOLUME   543688.620 3755816.135 297.81
LOCATION L0052408     VOLUME   543688.631 3755819.793 297.88
LOCATION L0052409     VOLUME   543688.642 3755823.451 297.95
LOCATION L0052410     VOLUME   543688.654 3755827.108 298.03
LOCATION L0052411     VOLUME   543688.665 3755830.766 298.10
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LOCATION L0052412     VOLUME   543688.676 3755834.423 298.17
LOCATION L0052413     VOLUME   543688.687 3755838.081 298.25
LOCATION L0052414     VOLUME   543688.698 3755841.738 298.32
LOCATION L0052415     VOLUME   543688.709 3755845.396 298.39
LOCATION L0052416     VOLUME   543688.720 3755849.054 298.47
LOCATION L0052417     VOLUME   543688.731 3755852.711 298.54
LOCATION L0052418     VOLUME   543688.742 3755856.369 298.61
LOCATION L0052419     VOLUME   543688.753 3755860.026 298.69
LOCATION L0052420     VOLUME   543688.764 3755863.684 298.76
LOCATION L0052421     VOLUME   543688.776 3755867.341 298.84
LOCATION L0052422     VOLUME   543688.787 3755870.999 298.91
LOCATION L0052423     VOLUME   543688.798 3755874.657 298.99
LOCATION L0052424     VOLUME   543688.809 3755878.314 299.06
LOCATION L0052425     VOLUME   543688.820 3755881.972 299.14
LOCATION L0052426     VOLUME   543688.831 3755885.629 299.22
LOCATION L0052427     VOLUME   543688.842 3755889.287 299.29
LOCATION L0052428     VOLUME   543688.853 3755892.945 299.37
LOCATION L0052429     VOLUME   543688.864 3755896.602 299.45
LOCATION L0052430     VOLUME   543688.875 3755900.260 299.52
LOCATION L0052431     VOLUME   543688.887 3755903.917 299.59
LOCATION L0052432     VOLUME   543688.898 3755907.575 299.66
LOCATION L0052433     VOLUME   543688.909 3755911.232 299.73
LOCATION L0052434     VOLUME   543688.920 3755914.890 299.80
LOCATION L0052435     VOLUME   543688.931 3755918.548 299.88
LOCATION L0052436     VOLUME   543688.942 3755922.205 299.95
LOCATION L0052437     VOLUME   543688.953 3755925.863 300.02
LOCATION L0052438     VOLUME   543688.964 3755929.520 300.09
LOCATION L0052439     VOLUME   543688.975 3755933.178 300.16
LOCATION L0052440     VOLUME   543688.986 3755936.836 300.23
LOCATION L0052441     VOLUME   543688.997 3755940.493 300.30
LOCATION L0052442     VOLUME   543689.009 3755944.151 300.37
LOCATION L0052443     VOLUME   543689.020 3755947.808 300.43
LOCATION L0052444     VOLUME   543689.031 3755951.466 300.50
LOCATION L0052445     VOLUME   543689.042 3755955.123 300.57
LOCATION L0052446     VOLUME   543689.053 3755958.781 300.64
LOCATION L0052447     VOLUME   543689.064 3755962.439 300.70
LOCATION L0052448     VOLUME   543689.075 3755966.096 300.77
LOCATION L0052449     VOLUME   543689.086 3755969.754 300.83
LOCATION L0052450     VOLUME   543689.097 3755973.411 300.89
LOCATION L0052451     VOLUME   543689.108 3755977.069 300.96
LOCATION L0052452     VOLUME   543689.120 3755980.727 301.02
LOCATION L0052453     VOLUME   543689.131 3755984.384 301.08
LOCATION L0052454     VOLUME   543689.142 3755988.042 301.15
LOCATION L0052455     VOLUME   543689.153 3755991.699 301.22
LOCATION L0052456     VOLUME   543689.164 3755995.357 301.28
LOCATION L0052457     VOLUME   543689.175 3755999.014 301.35
LOCATION L0052458     VOLUME   543689.186 3756002.672 301.42
LOCATION L0052459     VOLUME   543689.197 3756006.330 301.49
LOCATION L0052460     VOLUME   543689.208 3756009.987 301.56
LOCATION L0052461     VOLUME   543689.219 3756013.645 301.63
LOCATION L0052462     VOLUME   543689.230 3756017.302 301.70
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LOCATION L0052463     VOLUME   543689.242 3756020.960 301.77
LOCATION L0052464     VOLUME   543689.253 3756024.618 301.83
LOCATION L0052465     VOLUME   543689.264 3756028.275 301.90
LOCATION L0052466     VOLUME   543689.275 3756031.933 301.96
LOCATION L0052467     VOLUME   543689.286 3756035.590 302.03
LOCATION L0052468     VOLUME   543689.297 3756039.248 302.09
LOCATION L0052469     VOLUME   543689.308 3756042.905 302.16
LOCATION L0052470     VOLUME   543689.319 3756046.563 302.22
LOCATION L0052471     VOLUME   543689.330 3756050.221 302.29
LOCATION L0052472     VOLUME   543689.341 3756053.878 302.36
LOCATION L0052473     VOLUME   543689.353 3756057.536 302.43
LOCATION L0052474     VOLUME   543689.364 3756061.193 302.50
LOCATION L0052475     VOLUME   543689.375 3756064.851 302.58
LOCATION L0052476     VOLUME   543689.386 3756068.509 302.65
LOCATION L0052477     VOLUME   543689.397 3756072.166 302.72
LOCATION L0052478     VOLUME   543689.408 3756075.824 302.79
LOCATION L0052479     VOLUME   543689.419 3756079.481 302.87
LOCATION L0052480     VOLUME   543689.430 3756083.139 302.94
LOCATION L0052481     VOLUME   543689.441 3756086.796 303.01
LOCATION L0052482     VOLUME   543689.452 3756090.454 303.07
LOCATION L0052483     VOLUME   543689.463 3756094.112 303.14
LOCATION L0052484     VOLUME   543689.475 3756097.769 303.21
LOCATION L0052485     VOLUME   543689.486 3756101.427 303.28
LOCATION L0052486     VOLUME   543689.497 3756105.084 303.35
LOCATION L0052487     VOLUME   543689.508 3756108.742 303.41
LOCATION L0052488     VOLUME   543689.519 3756112.400 303.48
LOCATION L0052489     VOLUME   543689.530 3756116.057 303.56
LOCATION L0052490     VOLUME   543689.541 3756119.715 303.64
LOCATION L0052491     VOLUME   543689.552 3756123.372 303.72
LOCATION L0052492     VOLUME   543689.563 3756127.030 303.80
LOCATION L0052493     VOLUME   543689.574 3756130.687 303.87
LOCATION L0052494     VOLUME   543689.586 3756134.345 303.95
LOCATION L0052495     VOLUME   543689.597 3756138.003 304.03
LOCATION L0052496     VOLUME   543689.608 3756141.660 304.11
LOCATION L0052497     VOLUME   543689.619 3756145.318 304.18
LOCATION L0052498     VOLUME   543689.630 3756148.975 304.24
LOCATION L0052499     VOLUME   543689.641 3756152.633 304.30
LOCATION L0052500     VOLUME   543689.652 3756156.291 304.36
LOCATION L0052501     VOLUME   543689.663 3756159.948 304.42
LOCATION L0052502     VOLUME   543689.674 3756163.606 304.48
LOCATION L0052503     VOLUME   543689.685 3756167.263 304.54
LOCATION L0052504     VOLUME   543689.696 3756170.921 304.60
LOCATION L0052505     VOLUME   543689.708 3756174.578 304.67
LOCATION L0052506     VOLUME   543689.719 3756178.236 304.73
LOCATION L0052507     VOLUME   543689.730 3756181.894 304.80
LOCATION L0052508     VOLUME   543689.741 3756185.551 304.87
LOCATION L0052509     VOLUME   543689.752 3756189.209 304.93
LOCATION L0052510     VOLUME   543689.763 3756192.866 305.00
LOCATION L0052511     VOLUME   543689.774 3756196.524 305.07
LOCATION L0052512     VOLUME   543689.785 3756200.182 305.13
LOCATION L0052513     VOLUME   543689.796 3756203.839 305.20
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   LOCATION L0052514     VOLUME   543689.807 3756207.497 305.26
   LOCATION L0052515     VOLUME   543689.819 3756211.154 305.31
   LOCATION L0052516     VOLUME   543689.830 3756214.812 305.36
   LOCATION L0052517     VOLUME   543689.841 3756218.469 305.41
   LOCATION L0052518     VOLUME   543689.852 3756222.127 305.47
   LOCATION L0052519     VOLUME   543689.863 3756225.785 305.52
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   LOCATION L0052522     VOLUME   543689.896 3756236.757 305.67
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   LOCATION L0052526     VOLUME   543689.941 3756251.388 305.87
   LOCATION L0052527     VOLUME   543689.952 3756255.045 305.92
   LOCATION L0052528     VOLUME   543689.963 3756258.703 305.97
   LOCATION L0052529     VOLUME   543689.974 3756262.360 306.02
   LOCATION L0052530     VOLUME   543689.985 3756266.018 306.07
   LOCATION L0052531     VOLUME   543689.996 3756269.676 306.14
   LOCATION L0052532     VOLUME   543690.007 3756273.333 306.21
   LOCATION L0052533     VOLUME   543690.018 3756276.991 306.27
   LOCATION L0052534     VOLUME   543690.029 3756280.648 306.34
   LOCATION L0052535     VOLUME   543690.040 3756284.306 306.41
   LOCATION L0052536     VOLUME   543690.051 3756287.964 306.48
   LOCATION L0052537     VOLUME   543690.063 3756291.621 306.55
   LOCATION L0052538     VOLUME   543690.074 3756295.279 306.62
   LOCATION L0052539     VOLUME   543690.085 3756298.936 306.68
   LOCATION L0052540     VOLUME   543690.096 3756302.594 306.72
   LOCATION L0052541     VOLUME   543690.107 3756306.251 306.77
   LOCATION L0052542     VOLUME   543690.118 3756309.909 306.82
   LOCATION L0052543     VOLUME   543690.129 3756313.567 306.87
   LOCATION L0052544     VOLUME   543690.140 3756317.224 306.92
   LOCATION L0052545     VOLUME   543690.151 3756320.882 306.97
   LOCATION L0052546     VOLUME   543690.162 3756324.539 307.02
   LOCATION L0052547     VOLUME   543690.174 3756328.197 307.07
   LOCATION L0052548     VOLUME   543690.185 3756331.855 307.14
   LOCATION L0052549     VOLUME   543690.196 3756335.512 307.21
   LOCATION L0052550     VOLUME   543690.207 3756339.170 307.27
   LOCATION L0052551     VOLUME   543690.218 3756342.827 307.34
   LOCATION L0052552     VOLUME   543690.229 3756346.485 307.40
   LOCATION L0052553     VOLUME   543690.240 3756350.142 307.47
   LOCATION L0052554     VOLUME   543690.251 3756353.800 307.53
   LOCATION L0052555     VOLUME   543690.262 3756357.458 307.60
   LOCATION L0052556     VOLUME   543690.273 3756361.115 307.67
** End of LINE VOLUME Source ID = SLINE14
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE15
** DESCRSRC 2 Bunch Palms Trail - Little Morongo to Palm
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
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** Emission Rate = 0.0000398
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 4
** 543694.401, 3756365.665, 307.58, 0.00, 1.70
** 544983.680, 3756374.383, 296.81, 0.00, 1.70
** 545634.390, 3756368.910, 291.46, 0.00, 1.70
** 546082.496, 3756373.987, 285.84, 0.00, 1.70
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   LOCATION L0052558     VOLUME   543699.887 3756365.702 307.66
   LOCATION L0052559     VOLUME   543703.545 3756365.726 307.65
   LOCATION L0052560     VOLUME   543707.202 3756365.751 307.65
   LOCATION L0052561     VOLUME   543710.860 3756365.776 307.65
   LOCATION L0052562     VOLUME   543714.517 3756365.801 307.64
   LOCATION L0052563     VOLUME   543718.175 3756365.825 307.64
   LOCATION L0052564     VOLUME   543721.832 3756365.850 307.64
   LOCATION L0052565     VOLUME   543725.490 3756365.875 307.64
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LOCATION L0052903     VOLUME   544961.730 3756374.235 297.32
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LOCATION L0053195     VOLUME   546029.701 3756373.389 286.70
LOCATION L0053196     VOLUME   546033.358 3756373.430 286.65
LOCATION L0053197     VOLUME   546037.015 3756373.471 286.60
LOCATION L0053198     VOLUME   546040.673 3756373.513 286.55
LOCATION L0053199     VOLUME   546044.330 3756373.554 286.50
LOCATION L0053200     VOLUME   546047.987 3756373.596 286.45
LOCATION L0053201     VOLUME   546051.645 3756373.637 286.40
LOCATION L0053202     VOLUME   546055.302 3756373.679 286.35
LOCATION L0053203     VOLUME   546058.960 3756373.720 286.30
LOCATION L0053204     VOLUME   546062.617 3756373.761 286.25
LOCATION L0053205     VOLUME   546066.274 3756373.803 286.19
LOCATION L0053206     VOLUME   546069.932 3756373.844 286.14
LOCATION L0053207     VOLUME   546073.589 3756373.886 286.09
LOCATION L0053208     VOLUME   546077.246 3756373.927 286.04
LOCATION L0053209     VOLUME   546080.904 3756373.969 285.99
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** End of LINE VOLUME Source ID = SLINE15
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE16
** DESCRSRC Little Morongo - North 2 Bunch Trails
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000159
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
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** 543678.747, 3757263.016, 325.23, 0.00, 1.70
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   LOCATION L0053212     VOLUME   543688.295 3756377.535 308.00
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   LOCATION L0053215     VOLUME   543688.176 3756388.507 308.21
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   LOCATION L0053217     VOLUME   543688.097 3756395.822 308.39
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   LOCATION L0053221     VOLUME   543687.940 3756410.451 308.75
   LOCATION L0053222     VOLUME   543687.900 3756414.109 308.84
   LOCATION L0053223     VOLUME   543687.861 3756417.766 308.93
   LOCATION L0053224     VOLUME   543687.821 3756421.423 309.02
   LOCATION L0053225     VOLUME   543687.782 3756425.081 309.11
   LOCATION L0053226     VOLUME   543687.742 3756428.738 309.20
   LOCATION L0053227     VOLUME   543687.703 3756432.395 309.28
   LOCATION L0053228     VOLUME   543687.664 3756436.053 309.37
   LOCATION L0053229     VOLUME   543687.624 3756439.710 309.46
   LOCATION L0053230     VOLUME   543687.585 3756443.368 309.55
   LOCATION L0053231     VOLUME   543687.545 3756447.025 309.63
   LOCATION L0053232     VOLUME   543687.506 3756450.682 309.72
   LOCATION L0053233     VOLUME   543687.466 3756454.340 309.79
   LOCATION L0053234     VOLUME   543687.427 3756457.997 309.85
   LOCATION L0053235     VOLUME   543687.388 3756461.655 309.91
   LOCATION L0053236     VOLUME   543687.348 3756465.312 309.97
   LOCATION L0053237     VOLUME   543687.309 3756468.969 310.03
   LOCATION L0053238     VOLUME   543687.269 3756472.627 310.09
   LOCATION L0053239     VOLUME   543687.230 3756476.284 310.15
   LOCATION L0053240     VOLUME   543687.190 3756479.942 310.21
   LOCATION L0053241     VOLUME   543687.151 3756483.599 310.27
   LOCATION L0053242     VOLUME   543687.112 3756487.256 310.33
   LOCATION L0053243     VOLUME   543687.072 3756490.914 310.38
   LOCATION L0053244     VOLUME   543687.033 3756494.571 310.44
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LOCATION L0053249     VOLUME   543686.835 3756512.858 310.71
LOCATION L0053250     VOLUME   543686.796 3756516.515 310.76
LOCATION L0053251     VOLUME   543686.757 3756520.173 310.81
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LOCATION L0053258     VOLUME   543686.481 3756545.774 311.15
LOCATION L0053259     VOLUME   543686.441 3756549.432 311.20
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LOCATION L0053261     VOLUME   543686.362 3756556.747 311.30
LOCATION L0053262     VOLUME   543686.323 3756560.404 311.35
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LOCATION L0053264     VOLUME   543686.244 3756567.719 311.45
LOCATION L0053265     VOLUME   543686.205 3756571.376 311.50
LOCATION L0053266     VOLUME   543686.165 3756575.034 311.55
LOCATION L0053267     VOLUME   543686.126 3756578.691 311.60
LOCATION L0053268     VOLUME   543686.086 3756582.348 311.65
LOCATION L0053269     VOLUME   543686.047 3756586.006 311.70
LOCATION L0053270     VOLUME   543686.007 3756589.663 311.75
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LOCATION L0053277     VOLUME   543685.731 3756615.265 312.14
LOCATION L0053278     VOLUME   543685.692 3756618.922 312.20
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LOCATION L0053280     VOLUME   543685.613 3756626.237 312.33
LOCATION L0053281     VOLUME   543685.574 3756629.894 312.39
LOCATION L0053282     VOLUME   543685.534 3756633.552 312.45
LOCATION L0053283     VOLUME   543685.495 3756637.209 312.51
LOCATION L0053284     VOLUME   543685.455 3756640.867 312.58
LOCATION L0053285     VOLUME   543685.416 3756644.524 312.64
LOCATION L0053286     VOLUME   543685.376 3756648.181 312.70
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LOCATION L0053288     VOLUME   543685.298 3756655.496 312.83
LOCATION L0053289     VOLUME   543685.258 3756659.153 312.89
LOCATION L0053290     VOLUME   543685.219 3756662.811 312.95
LOCATION L0053291     VOLUME   543685.179 3756666.468 313.01
LOCATION L0053292     VOLUME   543685.140 3756670.126 313.09
LOCATION L0053293     VOLUME   543685.100 3756673.783 313.16
LOCATION L0053294     VOLUME   543685.061 3756677.440 313.24
LOCATION L0053295     VOLUME   543685.021 3756681.098 313.31
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LOCATION L0053297     VOLUME   543684.943 3756688.413 313.46
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LOCATION L0053299     VOLUME   543684.864 3756695.727 313.61
LOCATION L0053300     VOLUME   543684.824 3756699.385 313.69
LOCATION L0053301     VOLUME   543684.785 3756703.042 313.76
LOCATION L0053302     VOLUME   543684.745 3756706.700 313.84
LOCATION L0053303     VOLUME   543684.706 3756710.357 313.92
LOCATION L0053304     VOLUME   543684.667 3756714.014 314.00
LOCATION L0053305     VOLUME   543684.627 3756717.672 314.08
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LOCATION L0053307     VOLUME   543684.548 3756724.986 314.24
LOCATION L0053308     VOLUME   543684.509 3756728.644 314.32
LOCATION L0053309     VOLUME   543684.469 3756732.301 314.39
LOCATION L0053310     VOLUME   543684.430 3756735.959 314.47
LOCATION L0053311     VOLUME   543684.391 3756739.616 314.54
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LOCATION L0053322     VOLUME   543683.957 3756779.847 315.38
LOCATION L0053323     VOLUME   543683.917 3756783.505 315.45
LOCATION L0053324     VOLUME   543683.878 3756787.162 315.53
LOCATION L0053325     VOLUME   543683.838 3756790.819 315.60
LOCATION L0053326     VOLUME   543683.799 3756794.477 315.67
LOCATION L0053327     VOLUME   543683.760 3756798.134 315.73
LOCATION L0053328     VOLUME   543683.720 3756801.792 315.80
LOCATION L0053329     VOLUME   543683.681 3756805.449 315.87
LOCATION L0053330     VOLUME   543683.641 3756809.106 315.94
LOCATION L0053331     VOLUME   543683.602 3756812.764 316.01
LOCATION L0053332     VOLUME   543683.562 3756816.421 316.07
LOCATION L0053333     VOLUME   543683.523 3756820.079 316.14
LOCATION L0053334     VOLUME   543683.484 3756823.736 316.20
LOCATION L0053335     VOLUME   543683.444 3756827.393 316.26
LOCATION L0053336     VOLUME   543683.405 3756831.051 316.32
LOCATION L0053337     VOLUME   543683.365 3756834.708 316.39
LOCATION L0053338     VOLUME   543683.326 3756838.365 316.45
LOCATION L0053339     VOLUME   543683.286 3756842.023 316.51
LOCATION L0053340     VOLUME   543683.247 3756845.680 316.57
LOCATION L0053341     VOLUME   543683.207 3756849.338 316.63
LOCATION L0053342     VOLUME   543683.168 3756852.995 316.69
LOCATION L0053343     VOLUME   543683.129 3756856.652 316.76
LOCATION L0053344     VOLUME   543683.089 3756860.310 316.83
LOCATION L0053345     VOLUME   543683.050 3756863.967 316.89
LOCATION L0053346     VOLUME   543683.010 3756867.625 316.96
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LOCATION L0053351     VOLUME   543682.813 3756885.912 317.30
LOCATION L0053352     VOLUME   543682.774 3756889.569 317.37
LOCATION L0053353     VOLUME   543682.734 3756893.226 317.44
LOCATION L0053354     VOLUME   543682.695 3756896.884 317.52
LOCATION L0053355     VOLUME   543682.655 3756900.541 317.59
LOCATION L0053356     VOLUME   543682.616 3756904.198 317.66
LOCATION L0053357     VOLUME   543682.577 3756907.856 317.73
LOCATION L0053358     VOLUME   543682.537 3756911.513 317.80
LOCATION L0053359     VOLUME   543682.498 3756915.171 317.88
LOCATION L0053360     VOLUME   543682.458 3756918.828 317.95
LOCATION L0053361     VOLUME   543682.419 3756922.485 318.03
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LOCATION L0053364     VOLUME   543682.300 3756933.458 318.25
LOCATION L0053365     VOLUME   543682.261 3756937.115 318.33
LOCATION L0053366     VOLUME   543682.222 3756940.772 318.41
LOCATION L0053367     VOLUME   543682.182 3756944.430 318.48
LOCATION L0053368     VOLUME   543682.143 3756948.087 318.56
LOCATION L0053369     VOLUME   543682.103 3756951.744 318.64
LOCATION L0053370     VOLUME   543682.064 3756955.402 318.71
LOCATION L0053371     VOLUME   543682.024 3756959.059 318.79
LOCATION L0053372     VOLUME   543681.985 3756962.717 318.87
LOCATION L0053373     VOLUME   543681.946 3756966.374 318.95
LOCATION L0053374     VOLUME   543681.906 3756970.031 319.03
LOCATION L0053375     VOLUME   543681.867 3756973.689 319.10
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LOCATION L0053378     VOLUME   543681.748 3756984.661 319.33
LOCATION L0053379     VOLUME   543681.709 3756988.318 319.40
LOCATION L0053380     VOLUME   543681.670 3756991.976 319.47
LOCATION L0053381     VOLUME   543681.630 3756995.633 319.55
LOCATION L0053382     VOLUME   543681.591 3756999.291 319.62
LOCATION L0053383     VOLUME   543681.551 3757002.948 319.70
LOCATION L0053384     VOLUME   543681.512 3757006.605 319.77
LOCATION L0053385     VOLUME   543681.472 3757010.263 319.85
LOCATION L0053386     VOLUME   543681.433 3757013.920 319.93
LOCATION L0053387     VOLUME   543681.393 3757017.577 320.01
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LOCATION L0053389     VOLUME   543681.315 3757024.892 320.17
LOCATION L0053390     VOLUME   543681.275 3757028.550 320.25
LOCATION L0053391     VOLUME   543681.236 3757032.207 320.33
LOCATION L0053392     VOLUME   543681.196 3757035.864 320.41
LOCATION L0053393     VOLUME   543681.157 3757039.522 320.51
LOCATION L0053394     VOLUME   543681.117 3757043.179 320.61
LOCATION L0053395     VOLUME   543681.078 3757046.837 320.71
LOCATION L0053396     VOLUME   543681.039 3757050.494 320.82
LOCATION L0053397     VOLUME   543680.999 3757054.151 320.92
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LOCATION L0053401     VOLUME   543680.841 3757068.781 321.33
LOCATION L0053402     VOLUME   543680.802 3757072.438 321.42
LOCATION L0053403     VOLUME   543680.763 3757076.096 321.51
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LOCATION L0053407     VOLUME   543680.605 3757090.725 321.88
LOCATION L0053408     VOLUME   543680.565 3757094.383 321.97
LOCATION L0053409     VOLUME   543680.526 3757098.040 322.07
LOCATION L0053410     VOLUME   543680.486 3757101.697 322.16
LOCATION L0053411     VOLUME   543680.447 3757105.355 322.26
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LOCATION L0053413     VOLUME   543680.368 3757112.670 322.45
LOCATION L0053414     VOLUME   543680.329 3757116.327 322.55
LOCATION L0053415     VOLUME   543680.289 3757119.984 322.65
LOCATION L0053416     VOLUME   543680.250 3757123.642 322.74
LOCATION L0053417     VOLUME   543680.210 3757127.299 322.84
LOCATION L0053418     VOLUME   543680.171 3757130.956 322.92
LOCATION L0053419     VOLUME   543680.132 3757134.614 323.00
LOCATION L0053420     VOLUME   543680.092 3757138.271 323.08
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LOCATION L0053422     VOLUME   543680.013 3757145.586 323.23
LOCATION L0053423     VOLUME   543679.974 3757149.243 323.31
LOCATION L0053424     VOLUME   543679.934 3757152.901 323.39
LOCATION L0053425     VOLUME   543679.895 3757156.558 323.47
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LOCATION L0053430     VOLUME   543679.698 3757174.845 323.82
LOCATION L0053431     VOLUME   543679.658 3757178.503 323.89
LOCATION L0053432     VOLUME   543679.619 3757182.160 323.95
LOCATION L0053433     VOLUME   543679.580 3757185.817 324.02
LOCATION L0053434     VOLUME   543679.540 3757189.475 324.09
LOCATION L0053435     VOLUME   543679.501 3757193.132 324.15
LOCATION L0053436     VOLUME   543679.461 3757196.789 324.21
LOCATION L0053437     VOLUME   543679.422 3757200.447 324.27
LOCATION L0053438     VOLUME   543679.382 3757204.104 324.33
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LOCATION L0053440     VOLUME   543679.303 3757211.419 324.45
LOCATION L0053441     VOLUME   543679.264 3757215.076 324.51
LOCATION L0053442     VOLUME   543679.225 3757218.734 324.57
LOCATION L0053443     VOLUME   543679.185 3757222.391 324.64
LOCATION L0053444     VOLUME   543679.146 3757226.049 324.70
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LOCATION L0053447     VOLUME   543679.027 3757237.021 324.90
LOCATION L0053448     VOLUME   543678.988 3757240.678 324.96
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   LOCATION L0053450     VOLUME   543678.909 3757247.993 325.10
   LOCATION L0053451     VOLUME   543678.870 3757251.650 325.16
   LOCATION L0053452     VOLUME   543678.830 3757255.308 325.24
   LOCATION L0053453     VOLUME   543678.791 3757258.965 325.32
   LOCATION L0053454     VOLUME   543678.751 3757262.622 325.40
** End of LINE VOLUME Source ID = SLINE16
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE17
** DESCRSRC Dillon Road - Little Morongo to Palm
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000795
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
** 543674.224, 3753932.208, 262.40, 0.00, 1.70
** 546058.347, 3753939.267, 251.79, 0.00, 1.70
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   LOCATION L0053462     VOLUME   543701.656 3753932.289 262.37
   LOCATION L0053463     VOLUME   543705.314 3753932.300 262.36
   LOCATION L0053464     VOLUME   543708.971 3753932.310 262.35
   LOCATION L0053465     VOLUME   543712.629 3753932.321 262.34
   LOCATION L0053466     VOLUME   543716.286 3753932.332 262.33
   LOCATION L0053467     VOLUME   543719.944 3753932.343 262.32
   LOCATION L0053468     VOLUME   543723.601 3753932.354 262.31
   LOCATION L0053469     VOLUME   543727.259 3753932.365 262.30
   LOCATION L0053470     VOLUME   543730.917 3753932.375 262.29
   LOCATION L0053471     VOLUME   543734.574 3753932.386 262.28
   LOCATION L0053472     VOLUME   543738.232 3753932.397 262.27
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   LOCATION L0053474     VOLUME   543745.547 3753932.419 262.25
   LOCATION L0053475     VOLUME   543749.205 3753932.430 262.24
   LOCATION L0053476     VOLUME   543752.862 3753932.440 262.23
   LOCATION L0053477     VOLUME   543756.520 3753932.451 262.22
   LOCATION L0053478     VOLUME   543760.177 3753932.462 262.21
   LOCATION L0053479     VOLUME   543763.835 3753932.473 262.20
   LOCATION L0053480     VOLUME   543767.492 3753932.484 262.19
   LOCATION L0053481     VOLUME   543771.150 3753932.495 262.18
   LOCATION L0053482     VOLUME   543774.808 3753932.505 262.17
   LOCATION L0053483     VOLUME   543778.465 3753932.516 262.16
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LOCATION L0053484     VOLUME   543782.123 3753932.527 262.15
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SRCPARAM L0050347     0.0000004063      0.00      1.70      0.76
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SRCPARAM L0050416     0.0000004063      0.00      1.70      0.76
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SRCPARAM L0050446     0.0000004063      0.00      1.70      0.76
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SRCPARAM L0050449     0.0000004063      0.00      1.70      0.76
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   SRCPARAM STCK2        0.0000165     3.658   366.000  51.90000     0.100
   SRCPARAM STCK3        0.0000165     3.658   366.000  51.90000     0.100
   SRCPARAM STCK4        0.0000165     3.658   366.000  51.90000     0.100
** LINE VOLUME Source ID = SLINE3
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SRCPARAM L0050847     0.0000004921      0.00      1.70      0.76
SRCPARAM L0050848     0.0000004921      0.00      1.70      0.76
SRCPARAM L0050849     0.0000004921      0.00      1.70      0.76
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SRCPARAM L0050866     0.0000004921      0.00      1.70      0.76
SRCPARAM L0050867     0.0000004921      0.00      1.70      0.76
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SRCPARAM L0050874     0.0000004921      0.00      1.70      0.76
SRCPARAM L0050875     0.0000004921      0.00      1.70      0.76
SRCPARAM L0050876     0.0000004921      0.00      1.70      0.76
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SRCPARAM L0050878     0.0000004921      0.00      1.70      0.76
SRCPARAM L0050879     0.0000004921      0.00      1.70      0.76
SRCPARAM L0050880     0.0000004921      0.00      1.70      0.76
SRCPARAM L0050881     0.0000004921      0.00      1.70      0.76
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SRCPARAM L0050884     0.0000004921      0.00      1.70      0.76
SRCPARAM L0050885     0.0000004921      0.00      1.70      0.76
SRCPARAM L0050886     0.0000004921      0.00      1.70      0.76
SRCPARAM L0050887     0.0000004921      0.00      1.70      0.76
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SRCPARAM L0050889     0.0000004921      0.00      1.70      0.76
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SRCPARAM L0050892     0.0000004921      0.00      1.70      0.76
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SRCPARAM L0050898     0.0000004921      0.00      1.70      0.76
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SRCPARAM L0050900     0.0000004921      0.00      1.70      0.76
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   SRCPARAM L0050906     0.0000004921      0.00      1.70      0.76
   SRCPARAM L0050907     0.0000004921      0.00      1.70      0.76
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   SRCPARAM L0050909     0.0000004921      0.00      1.70      0.76
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   SRCPARAM L0050912     0.0000004921      0.00      1.70      0.76
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   SRCPARAM L0050914     0.0000004921      0.00      1.70      0.76
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   SRCPARAM L0050916     0.0000004921      0.00      1.70      0.76
   SRCPARAM L0050917     0.0000004921      0.00      1.70      0.76
   SRCPARAM L0050918     0.0000004921      0.00      1.70      0.76
   SRCPARAM L0050919     0.0000004921      0.00      1.70      0.76
   SRCPARAM L0050920     0.0000004921      0.00      1.70      0.76
   SRCPARAM L0050921     0.0000004921      0.00      1.70      0.76
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   SRCPARAM L0050947     0.0000002808      0.00      1.70      0.76
   SRCPARAM L0050948     0.0000002808      0.00      1.70      0.76
   SRCPARAM L0050949     0.0000002808      0.00      1.70      0.76
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SRCPARAM L0050967     0.0000002808      0.00      1.70      0.76
SRCPARAM L0050968     0.0000002808      0.00      1.70      0.76
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SRCPARAM L0051000     0.0000002808      0.00      1.70      0.76
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SRCPARAM L0051028     0.0000002808      0.00      1.70      0.76
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SRCPARAM L0051030     0.0000002808      0.00      1.70      0.76
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SRCPARAM L0051032     0.0000002808      0.00      1.70      0.76
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SRCPARAM L0051049     0.0000002808      0.00      1.70      0.76
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SRCPARAM L0051252     0.0000002808      0.00      1.70      0.76
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SRCPARAM L0051719     0.0000001586      0.00      1.70      0.76
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SRCPARAM L0051790     0.0000001586      0.00      1.70      0.76
SRCPARAM L0051791     0.0000001586      0.00      1.70      0.76
SRCPARAM L0051792     0.0000001586      0.00      1.70      0.76
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SRCPARAM L0051794     0.0000001586      0.00      1.70      0.76
SRCPARAM L0051795     0.0000001586      0.00      1.70      0.76
SRCPARAM L0051796     0.0000001586      0.00      1.70      0.76
SRCPARAM L0051797     0.0000001586      0.00      1.70      0.76
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SRCPARAM L0051805     0.0000001586      0.00      1.70      0.76
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SRCPARAM L0051812     0.0000001586      0.00      1.70      0.76
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   SRCPARAM L0051821     0.0000001586      0.00      1.70      0.76
   SRCPARAM L0051822     0.0000001586      0.00      1.70      0.76
   SRCPARAM L0051823     0.0000001586      0.00      1.70      0.76
   SRCPARAM L0051824     0.0000001586      0.00      1.70      0.76
   SRCPARAM L0051825     0.0000001586      0.00      1.70      0.76
   SRCPARAM L0051826     0.0000001586      0.00      1.70      0.76
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   SRCPARAM L0051863     0.0000001259      0.00      1.70      0.76
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SRCPARAM L0051996     0.0000001259      0.00      1.70      0.76
SRCPARAM L0051997     0.0000001259      0.00      1.70      0.76
SRCPARAM L0051998     0.0000001259      0.00      1.70      0.76
SRCPARAM L0051999     0.0000001259      0.00      1.70      0.76
SRCPARAM L0052000     0.0000001259      0.00      1.70      0.76
SRCPARAM L0052001     0.0000001259      0.00      1.70      0.76
SRCPARAM L0052002     0.0000001259      0.00      1.70      0.76
SRCPARAM L0052003     0.0000001259      0.00      1.70      0.76
SRCPARAM L0052004     0.0000001259      0.00      1.70      0.76
SRCPARAM L0052005     0.0000001259      0.00      1.70      0.76
SRCPARAM L0052006     0.0000001259      0.00      1.70      0.76
SRCPARAM L0052007     0.0000001259      0.00      1.70      0.76
SRCPARAM L0052008     0.0000001259      0.00      1.70      0.76
SRCPARAM L0052009     0.0000001259      0.00      1.70      0.76
SRCPARAM L0052010     0.0000001259      0.00      1.70      0.76
SRCPARAM L0052011     0.0000001259      0.00      1.70      0.76
SRCPARAM L0052012     0.0000001259      0.00      1.70      0.76
SRCPARAM L0052013     0.0000001259      0.00      1.70      0.76
SRCPARAM L0052014     0.0000001259      0.00      1.70      0.76
SRCPARAM L0052015     0.0000001259      0.00      1.70      0.76
SRCPARAM L0052016     0.0000001259      0.00      1.70      0.76
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   SRCPARAM L0052017     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052018     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052019     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052020     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052021     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052022     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052023     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052024     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052025     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052026     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052027     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052028     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052029     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052030     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052031     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052032     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052033     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052034     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052035     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052036     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052037     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052038     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052039     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052040     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052041     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052042     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052043     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052044     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052045     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052046     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052047     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052048     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052049     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052050     0.0000001259      0.00      1.70      0.76
   SRCPARAM L0052051     0.0000001259      0.00      1.70      0.76
** ------------------------------------------------------------------
   SRCPARAM STCK5        0.0000165     3.658   366.000  51.90000     0.100
   SRCPARAM STCK6        0.0000165     3.658   366.000  51.90000     0.100
   SRCPARAM STCK7        0.0000165     3.658   366.000  51.90000     0.100
   SRCPARAM STCK8        0.0000165     3.658   366.000  51.90000     0.100
   SRCPARAM STCK9        0.0000165     3.658   366.000  51.90000     0.100
   SRCPARAM STCK10       0.0000165     3.658   366.000  51.90000     0.100
   SRCPARAM STCK11       0.0000165     3.658   366.000  51.90000     0.100
   SRCPARAM STCK12       0.0000165     3.658   366.000  51.90000     0.100
   SRCPARAM STCK13       0.0000165     3.658   366.000  51.90000     0.100
   SRCPARAM STCK14       0.0000165     3.658   366.000  51.90000     0.100
   SRCPARAM STCK15       0.0000165     3.658   366.000  51.90000     0.100
   SRCPARAM STCK16       0.0000165     3.658   366.000  51.90000     0.100
   SRCPARAM STCK18       0.0000165     3.658   366.000  51.90000     0.100
   SRCPARAM STCK19       0.0000165     3.658   366.000  51.90000     0.100
   SRCPARAM STCK20       0.0000165     3.658   366.000  51.90000     0.100
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   SRCPARAM STCK21       0.0000165     3.658   366.000  51.90000     0.100
   SRCPARAM STCK22       0.0000165     3.658   366.000  51.90000     0.100
   SRCPARAM STCK23       0.0000165     3.658   366.000  51.90000     0.100
   SRCPARAM STCK24       0.0000165     3.658   366.000  51.90000     0.100
   SRCPARAM STCK25       0.0000165     3.658   366.000  51.90000     0.100
   SRCPARAM STCK26       0.0000165     3.658   366.000  51.90000     0.100
   SRCPARAM STCK27       0.0000165     3.658   366.000  51.90000     0.100
   SRCPARAM STCK28       0.0000165     3.658   366.000  51.90000     0.100
   SRCPARAM STCK29       0.0000165     3.658   366.000  51.90000     0.100
   SRCPARAM STCK30       0.0000165     3.658   366.000  51.90000     0.100
   SRCPARAM STCK31       0.0000165     3.658   366.000  51.90000     0.100
   SRCPARAM STCK32       0.0000165     3.658   366.000  51.90000     0.100
   SRCPARAM STCK33       0.0000165     3.658   366.000  51.90000     0.100
   SRCPARAM STCK34       0.0000165     3.658   366.000  51.90000     0.100
** LINE VOLUME Source ID = SLINE11
   SRCPARAM L0052052     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052053     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052054     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052055     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052056     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052057     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052058     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052059     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052060     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052061     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052062     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052063     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052064     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052065     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052066     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052067     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052068     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052069     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052070     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052071     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052072     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052073     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052074     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052075     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052076     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052077     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052078     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052079     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052080     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052081     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052082     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052083     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052084     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052085     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052086     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052087     0.0000003232      0.00      1.70      0.76
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SRCPARAM L0052088     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052089     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052090     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052091     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052092     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052093     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052094     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052095     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052096     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052097     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052098     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052099     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052100     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052101     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052102     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052103     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052104     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052105     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052106     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052107     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052108     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052109     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052110     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052111     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052112     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052113     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052114     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052115     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052116     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052117     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052118     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052119     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052120     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052121     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052122     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052123     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052124     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052125     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052126     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052127     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052128     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052129     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052130     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052131     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052132     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052133     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052134     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052135     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052136     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052137     0.0000003232      0.00      1.70      0.76
SRCPARAM L0052138     0.0000003232      0.00      1.70      0.76
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   SRCPARAM L0052139     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052140     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052141     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052142     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052143     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052144     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052145     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052146     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052147     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052148     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052149     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052150     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052151     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052152     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052153     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052154     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052155     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052156     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052157     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052158     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052159     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052160     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052161     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052162     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052163     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052164     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052165     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052166     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052167     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052168     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052169     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052170     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052171     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052172     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052173     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052174     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052175     0.0000003232      0.00      1.70      0.76
   SRCPARAM L0052176     0.0000003232      0.00      1.70      0.76
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE12
   SRCPARAM L0052177     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052178     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052179     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052180     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052181     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052182     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052183     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052184     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052185     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052186     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052187     0.0000003227      0.00      1.70      0.76
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SRCPARAM L0052188     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052189     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052190     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052191     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052192     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052193     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052194     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052195     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052196     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052197     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052198     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052199     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052200     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052201     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052202     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052203     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052204     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052205     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052206     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052207     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052208     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052209     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052210     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052211     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052212     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052213     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052214     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052215     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052216     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052217     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052218     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052219     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052220     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052221     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052222     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052223     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052224     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052225     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052226     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052227     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052228     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052229     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052230     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052231     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052232     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052233     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052234     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052235     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052236     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052237     0.0000003227      0.00      1.70      0.76
SRCPARAM L0052238     0.0000003227      0.00      1.70      0.76
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   SRCPARAM L0052239     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052240     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052241     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052242     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052243     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052244     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052245     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052246     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052247     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052248     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052249     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052250     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052251     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052252     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052253     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052254     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052255     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052256     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052257     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052258     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052259     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052260     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052261     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052262     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052263     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052264     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052265     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052266     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052267     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052268     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052269     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052270     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052271     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052272     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052273     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052274     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052275     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052276     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052277     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052278     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052279     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052280     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052281     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052282     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052283     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052284     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052285     0.0000003227      0.00      1.70      0.76
   SRCPARAM L0052286     0.0000003227      0.00      1.70      0.76
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE13
   SRCPARAM L0052287     0.0000003225      0.00      1.70      0.76
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SRCPARAM L0052288     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052289     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052290     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052291     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052292     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052293     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052294     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052295     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052296     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052297     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052298     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052299     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052300     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052301     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052302     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052303     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052304     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052305     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052306     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052307     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052308     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052309     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052310     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052311     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052312     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052313     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052314     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052315     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052316     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052317     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052318     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052319     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052320     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052321     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052322     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052323     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052324     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052325     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052326     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052327     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052328     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052329     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052330     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052331     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052332     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052333     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052334     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052335     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052336     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052337     0.0000003225      0.00      1.70      0.76
SRCPARAM L0052338     0.0000003225      0.00      1.70      0.76
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   SRCPARAM L0052339     0.0000003225      0.00      1.70      0.76
   SRCPARAM L0052340     0.0000003225      0.00      1.70      0.76
   SRCPARAM L0052341     0.0000003225      0.00      1.70      0.76
   SRCPARAM L0052342     0.0000003225      0.00      1.70      0.76
   SRCPARAM L0052343     0.0000003225      0.00      1.70      0.76
   SRCPARAM L0052344     0.0000003225      0.00      1.70      0.76
   SRCPARAM L0052345     0.0000003225      0.00      1.70      0.76
   SRCPARAM L0052346     0.0000003225      0.00      1.70      0.76
   SRCPARAM L0052347     0.0000003225      0.00      1.70      0.76
   SRCPARAM L0052348     0.0000003225      0.00      1.70      0.76
   SRCPARAM L0052349     0.0000003225      0.00      1.70      0.76
   SRCPARAM L0052350     0.0000003225      0.00      1.70      0.76
   SRCPARAM L0052351     0.0000003225      0.00      1.70      0.76
   SRCPARAM L0052352     0.0000003225      0.00      1.70      0.76
   SRCPARAM L0052353     0.0000003225      0.00      1.70      0.76
   SRCPARAM L0052354     0.0000003225      0.00      1.70      0.76
   SRCPARAM L0052355     0.0000003225      0.00      1.70      0.76
   SRCPARAM L0052356     0.0000003225      0.00      1.70      0.76
   SRCPARAM L0052357     0.0000003225      0.00      1.70      0.76
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE14
   SRCPARAM L0052358     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052359     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052360     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052361     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052362     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052363     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052364     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052365     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052366     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052367     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052368     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052369     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052370     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052371     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052372     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052373     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052374     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052375     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052376     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052377     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052378     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052379     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052380     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052381     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052382     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052383     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052384     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052385     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052386     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052387     0.0000001261      0.00      1.70      0.76
```

```
SRCPARAM L0052388     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052389     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052390     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052391     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052392     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052393     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052394     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052395     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052396     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052397     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052398     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052399     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052400     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052401     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052402     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052403     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052404     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052405     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052406     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052407     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052408     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052409     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052410     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052411     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052412     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052413     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052414     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052415     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052416     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052417     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052418     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052419     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052420     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052421     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052422     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052423     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052424     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052425     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052426     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052427     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052428     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052429     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052430     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052431     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052432     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052433     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052434     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052435     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052436     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052437     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052438     0.0000001261      0.00      1.70      0.76
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SRCPARAM L0052439     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052440     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052441     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052442     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052443     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052444     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052445     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052446     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052447     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052448     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052449     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052450     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052451     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052452     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052453     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052454     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052455     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052456     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052457     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052458     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052459     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052460     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052461     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052462     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052463     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052464     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052465     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052466     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052467     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052468     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052469     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052470     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052471     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052472     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052473     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052474     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052475     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052476     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052477     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052478     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052479     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052480     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052481     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052482     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052483     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052484     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052485     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052486     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052487     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052488     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052489     0.0000001261      0.00      1.70      0.76
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SRCPARAM L0052490     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052491     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052492     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052493     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052494     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052495     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052496     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052497     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052498     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052499     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052500     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052501     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052502     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052503     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052504     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052505     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052506     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052507     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052508     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052509     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052510     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052511     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052512     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052513     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052514     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052515     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052516     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052517     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052518     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052519     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052520     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052521     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052522     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052523     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052524     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052525     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052526     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052527     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052528     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052529     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052530     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052531     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052532     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052533     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052534     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052535     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052536     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052537     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052538     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052539     0.0000001261      0.00      1.70      0.76
SRCPARAM L0052540     0.0000001261      0.00      1.70      0.76
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   SRCPARAM L0052543     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052544     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052545     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052546     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052547     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052548     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052549     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052550     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052551     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052552     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052553     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052554     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052555     0.0000001261      0.00      1.70      0.76
   SRCPARAM L0052556     0.0000001261      0.00      1.70      0.76
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   SRCPARAM L0052562     0.00000006095      0.00      1.70      0.76
   SRCPARAM L0052563     0.00000006095      0.00      1.70      0.76
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   SRCPARAM L0052565     0.00000006095      0.00      1.70      0.76
   SRCPARAM L0052566     0.00000006095      0.00      1.70      0.76
   SRCPARAM L0052567     0.00000006095      0.00      1.70      0.76
   SRCPARAM L0052568     0.00000006095      0.00      1.70      0.76
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   SRCPARAM L0052572     0.00000006095      0.00      1.70      0.76
   SRCPARAM L0052573     0.00000006095      0.00      1.70      0.76
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   SRCPARAM L0052577     0.00000006095      0.00      1.70      0.76
   SRCPARAM L0052578     0.00000006095      0.00      1.70      0.76
   SRCPARAM L0052579     0.00000006095      0.00      1.70      0.76
   SRCPARAM L0052580     0.00000006095      0.00      1.70      0.76
   SRCPARAM L0052581     0.00000006095      0.00      1.70      0.76
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   SRCPARAM L0052587     0.00000006095      0.00      1.70      0.76
   SRCPARAM L0052588     0.00000006095      0.00      1.70      0.76
   SRCPARAM L0052589     0.00000006095      0.00      1.70      0.76
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SRCPARAM L0052612     0.00000006095      0.00      1.70      0.76
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SRCPARAM L0052616     0.00000006095      0.00      1.70      0.76
SRCPARAM L0052617     0.00000006095      0.00      1.70      0.76
SRCPARAM L0052618     0.00000006095      0.00      1.70      0.76
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SRCPARAM L0052628     0.00000006095      0.00      1.70      0.76
SRCPARAM L0052629     0.00000006095      0.00      1.70      0.76
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SRCPARAM L0052632     0.00000006095      0.00      1.70      0.76
SRCPARAM L0052633     0.00000006095      0.00      1.70      0.76
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SRCPARAM L0052635     0.00000006095      0.00      1.70      0.76
SRCPARAM L0052636     0.00000006095      0.00      1.70      0.76
SRCPARAM L0052637     0.00000006095      0.00      1.70      0.76
SRCPARAM L0052638     0.00000006095      0.00      1.70      0.76
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SRCPARAM L0052682     0.00000006095      0.00      1.70      0.76
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SRCPARAM L0052712     0.00000006095      0.00      1.70      0.76
SRCPARAM L0052713     0.00000006095      0.00      1.70      0.76
SRCPARAM L0052714     0.00000006095      0.00      1.70      0.76
SRCPARAM L0052715     0.00000006095      0.00      1.70      0.76
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SRCPARAM L0052753     0.00000006095      0.00      1.70      0.76
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SRCPARAM L0052788     0.00000006095      0.00      1.70      0.76
SRCPARAM L0052789     0.00000006095      0.00      1.70      0.76
SRCPARAM L0052790     0.00000006095      0.00      1.70      0.76
SRCPARAM L0052791     0.00000006095      0.00      1.70      0.76
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SRCPARAM L0053122     0.00000006095      0.00      1.70      0.76
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SRCPARAM L0053148     0.00000006095      0.00      1.70      0.76
SRCPARAM L0053149     0.00000006095      0.00      1.70      0.76
SRCPARAM L0053150     0.00000006095      0.00      1.70      0.76
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SRCPARAM L0053155     0.00000006095      0.00      1.70      0.76
SRCPARAM L0053156     0.00000006095      0.00      1.70      0.76
SRCPARAM L0053157     0.00000006095      0.00      1.70      0.76
SRCPARAM L0053158     0.00000006095      0.00      1.70      0.76
SRCPARAM L0053159     0.00000006095      0.00      1.70      0.76
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SRCPARAM L0053163     0.00000006095      0.00      1.70      0.76
SRCPARAM L0053164     0.00000006095      0.00      1.70      0.76
SRCPARAM L0053165     0.00000006095      0.00      1.70      0.76
SRCPARAM L0053166     0.00000006095      0.00      1.70      0.76
SRCPARAM L0053167     0.00000006095      0.00      1.70      0.76
SRCPARAM L0053168     0.00000006095      0.00      1.70      0.76
SRCPARAM L0053169     0.00000006095      0.00      1.70      0.76
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SRCPARAM L0053173     0.00000006095      0.00      1.70      0.76
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SRCPARAM L0053175     0.00000006095      0.00      1.70      0.76
SRCPARAM L0053176     0.00000006095      0.00      1.70      0.76
SRCPARAM L0053177     0.00000006095      0.00      1.70      0.76
SRCPARAM L0053178     0.00000006095      0.00      1.70      0.76
SRCPARAM L0053179     0.00000006095      0.00      1.70      0.76
SRCPARAM L0053180     0.00000006095      0.00      1.70      0.76
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SRCPARAM L0053183     0.00000006095      0.00      1.70      0.76
SRCPARAM L0053184     0.00000006095      0.00      1.70      0.76
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SRCPARAM L0053186     0.00000006095      0.00      1.70      0.76
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SRCPARAM L0053188     0.00000006095      0.00      1.70      0.76
SRCPARAM L0053189     0.00000006095      0.00      1.70      0.76
SRCPARAM L0053190     0.00000006095      0.00      1.70      0.76
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SRCPARAM L0053192     0.00000006095      0.00      1.70      0.76
SRCPARAM L0053193     0.00000006095      0.00      1.70      0.76
SRCPARAM L0053194     0.00000006095      0.00      1.70      0.76
SRCPARAM L0053195     0.00000006095      0.00      1.70      0.76
SRCPARAM L0053196     0.00000006095      0.00      1.70      0.76
SRCPARAM L0053197     0.00000006095      0.00      1.70      0.76
SRCPARAM L0053198     0.00000006095      0.00      1.70      0.76
SRCPARAM L0053199     0.00000006095      0.00      1.70      0.76
SRCPARAM L0053200     0.00000006095      0.00      1.70      0.76
SRCPARAM L0053201     0.00000006095      0.00      1.70      0.76
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   SRCPARAM L0053206     0.00000006095      0.00      1.70      0.76
   SRCPARAM L0053207     0.00000006095      0.00      1.70      0.76
   SRCPARAM L0053208     0.00000006095      0.00      1.70      0.76
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** LINE VOLUME Source ID = SLINE16
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   SRCPARAM L0053214     0.0000000649      0.00      1.70      0.76
   SRCPARAM L0053215     0.0000000649      0.00      1.70      0.76
   SRCPARAM L0053216     0.0000000649      0.00      1.70      0.76
   SRCPARAM L0053217     0.0000000649      0.00      1.70      0.76
   SRCPARAM L0053218     0.0000000649      0.00      1.70      0.76
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   SRCPARAM L0053221     0.0000000649      0.00      1.70      0.76
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   SRCPARAM L0053225     0.0000000649      0.00      1.70      0.76
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   SRCPARAM L0053227     0.0000000649      0.00      1.70      0.76
   SRCPARAM L0053228     0.0000000649      0.00      1.70      0.76
   SRCPARAM L0053229     0.0000000649      0.00      1.70      0.76
   SRCPARAM L0053230     0.0000000649      0.00      1.70      0.76
   SRCPARAM L0053231     0.0000000649      0.00      1.70      0.76
   SRCPARAM L0053232     0.0000000649      0.00      1.70      0.76
   SRCPARAM L0053233     0.0000000649      0.00      1.70      0.76
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   SRCPARAM L0053236     0.0000000649      0.00      1.70      0.76
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   SRCPARAM L0053240     0.0000000649      0.00      1.70      0.76
   SRCPARAM L0053241     0.0000000649      0.00      1.70      0.76
   SRCPARAM L0053242     0.0000000649      0.00      1.70      0.76
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   SRCPARAM L0053248     0.0000000649      0.00      1.70      0.76
   SRCPARAM L0053249     0.0000000649      0.00      1.70      0.76
   SRCPARAM L0053250     0.0000000649      0.00      1.70      0.76
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SRCPARAM L0053268     0.0000000649      0.00      1.70      0.76
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SRCPARAM L0053299     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053300     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053301     0.0000000649      0.00      1.70      0.76
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SRCPARAM L0053401     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053402     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053403     0.0000000649      0.00      1.70      0.76
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SRCPARAM L0053404     0.0000000649      0.00      1.70      0.76
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SRCPARAM L0053406     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053407     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053408     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053409     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053410     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053411     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053412     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053413     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053414     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053415     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053416     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053417     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053418     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053419     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053420     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053421     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053422     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053423     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053424     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053425     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053426     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053427     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053428     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053429     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053430     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053431     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053432     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053433     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053434     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053435     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053436     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053437     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053438     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053439     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053440     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053441     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053442     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053443     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053444     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053445     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053446     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053447     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053448     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053449     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053450     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053451     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053452     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053453     0.0000000649      0.00      1.70      0.76
SRCPARAM L0053454     0.0000000649      0.00      1.70      0.76
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   SRCPARAM L0053457     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053458     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053459     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053460     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053461     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053462     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053463     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053464     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053465     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053466     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053467     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053468     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053469     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053470     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053471     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053472     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053473     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053474     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053475     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053476     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053477     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053478     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053479     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053480     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053481     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053482     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053483     0.0000001219      0.00      1.70      0.76
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   SRCPARAM L0053486     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053487     0.0000001219      0.00      1.70      0.76
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   SRCPARAM L0053491     0.0000001219      0.00      1.70      0.76
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   SRCPARAM L0053499     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053500     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053501     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053502     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0053503     0.0000001219      0.00      1.70      0.76
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SRCPARAM L0053511     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053512     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053513     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053514     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053515     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053516     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053517     0.0000001219      0.00      1.70      0.76
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SRCPARAM L0053520     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053521     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053522     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053523     0.0000001219      0.00      1.70      0.76
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SRCPARAM L0053532     0.0000001219      0.00      1.70      0.76
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SRCPARAM L0053551     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053552     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053553     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053554     0.0000001219      0.00      1.70      0.76
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SRCPARAM L0053561     0.0000001219      0.00      1.70      0.76
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SRCPARAM L0053571     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053572     0.0000001219      0.00      1.70      0.76
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SRCPARAM L0053587     0.0000001219      0.00      1.70      0.76
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SRCPARAM L0053605     0.0000001219      0.00      1.70      0.76
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SRCPARAM L0053611     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053612     0.0000001219      0.00      1.70      0.76
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SRCPARAM L0053631     0.0000001219      0.00      1.70      0.76
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SRCPARAM L0053654     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053655     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053656     0.0000001219      0.00      1.70      0.76
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SRCPARAM L0053661     0.0000001219      0.00      1.70      0.76
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SRCPARAM L0053663     0.0000001219      0.00      1.70      0.76
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SRCPARAM L0053665     0.0000001219      0.00      1.70      0.76
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SRCPARAM L0053673     0.0000001219      0.00      1.70      0.76
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SRCPARAM L0053677     0.0000001219      0.00      1.70      0.76
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SRCPARAM L0053679     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053680     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053681     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053682     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053683     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053684     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053685     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053686     0.0000001219      0.00      1.70      0.76
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SRCPARAM L0053978     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053979     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053980     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053981     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053982     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053983     0.0000001219      0.00      1.70      0.76
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SRCPARAM L0053985     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053986     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053987     0.0000001219      0.00      1.70      0.76
SRCPARAM L0053988     0.0000001219      0.00      1.70      0.76
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SRCPARAM L0054000     0.0000001219      0.00      1.70      0.76
SRCPARAM L0054001     0.0000001219      0.00      1.70      0.76
SRCPARAM L0054002     0.0000001219      0.00      1.70      0.76
SRCPARAM L0054003     0.0000001219      0.00      1.70      0.76
SRCPARAM L0054004     0.0000001219      0.00      1.70      0.76
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SRCPARAM L0054008     0.0000001219      0.00      1.70      0.76
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SRCPARAM L0054011     0.0000001219      0.00      1.70      0.76
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SRCPARAM L0054013     0.0000001219      0.00      1.70      0.76
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SRCPARAM L0054016     0.0000001219      0.00      1.70      0.76
SRCPARAM L0054017     0.0000001219      0.00      1.70      0.76
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SRCPARAM L0054019     0.0000001219      0.00      1.70      0.76
SRCPARAM L0054020     0.0000001219      0.00      1.70      0.76
SRCPARAM L0054021     0.0000001219      0.00      1.70      0.76
SRCPARAM L0054022     0.0000001219      0.00      1.70      0.76
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SRCPARAM L0054036     0.0000001219      0.00      1.70      0.76
SRCPARAM L0054037     0.0000001219      0.00      1.70      0.76
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SRCPARAM L0054052     0.0000001219      0.00      1.70      0.76
SRCPARAM L0054053     0.0000001219      0.00      1.70      0.76
SRCPARAM L0054054     0.0000001219      0.00      1.70      0.76
SRCPARAM L0054055     0.0000001219      0.00      1.70      0.76
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SRCPARAM L0054058     0.0000001219      0.00      1.70      0.76
SRCPARAM L0054059     0.0000001219      0.00      1.70      0.76
SRCPARAM L0054060     0.0000001219      0.00      1.70      0.76
SRCPARAM L0054061     0.0000001219      0.00      1.70      0.76
SRCPARAM L0054062     0.0000001219      0.00      1.70      0.76
SRCPARAM L0054063     0.0000001219      0.00      1.70      0.76
SRCPARAM L0054064     0.0000001219      0.00      1.70      0.76
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   SRCPARAM L0054075     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0054076     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0054077     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0054078     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0054079     0.0000001219      0.00      1.70      0.76
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   SRCPARAM L0054081     0.0000001219      0.00      1.70      0.76
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   SRCPARAM L0054087     0.0000001219      0.00      1.70      0.76
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   SRCPARAM L0054099     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0054100     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0054101     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0054102     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0054103     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0054104     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0054105     0.0000001219      0.00      1.70      0.76
   SRCPARAM L0054106     0.0000001219      0.00      1.70      0.76
** ------------------------------------------------------------------

** Building Downwash **
   BUILDHGT STCK1            9.14     9.14     9.14     9.14     9.14     9.14
   BUILDHGT STCK1            9.14     9.14     9.14     9.14     9.14     9.14
   BUILDHGT STCK1            9.14     9.14     9.14     9.14     9.14     9.14
   BUILDHGT STCK1            9.14     9.14     9.14     9.14     9.14     9.14
   BUILDHGT STCK1            9.14     9.14     9.14     9.14     9.14     9.14
   BUILDHGT STCK1            9.14     9.14     9.14     9.14     9.14     9.14
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BUILDHGT STCK2          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK2          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK2          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK2          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK2          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK2          9.14    9.14    9.14    9.14    9.14    9.14

BUILDHGT STCK3          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK3          9.14    9.14    0.00    9.14    9.14    9.14
BUILDHGT STCK3          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK3          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK3          9.14    9.14    0.00    9.14    9.14    9.14
BUILDHGT STCK3          9.14    9.14    9.14    9.14    9.14    9.14

BUILDHGT STCK4          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK4          9.14    9.14    0.00    9.14    9.14    9.14
BUILDHGT STCK4          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK4          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK4          9.14    9.14    0.00    9.14    9.14    9.14
BUILDHGT STCK4          9.14    9.14    9.14    9.14    9.14    9.14

BUILDHGT STCK5          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK5          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK5          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK5          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK5          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK5          9.14    9.14    9.14    9.14    9.14    9.14

BUILDHGT STCK6          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK6          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK6          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK6          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK6          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK6          9.14    9.14    9.14    9.14    9.14    9.14

BUILDHGT STCK7          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK7          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK7          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK7          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK7          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK7          9.14    9.14    9.14    9.14    9.14    9.14

BUILDHGT STCK8          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK8          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK8          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK8          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK8          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK8          9.14    9.14    9.14    9.14    9.14    9.14

BUILDHGT STCK9          9.14    9.14    9.14    9.14    9.14    9.14
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BUILDHGT STCK9          9.14    9.14    0.00    9.14    9.14    9.14
BUILDHGT STCK9          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK9          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK9          9.14    9.14    0.00    9.14    9.14    9.14
BUILDHGT STCK9          9.14    9.14    9.14    9.14    9.14    9.14

BUILDHGT STCK10         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK10         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK10         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK10         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK10         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK10         9.14    9.14    9.14    9.14    9.14    9.14

BUILDHGT STCK11         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK11         9.14    9.14    0.00    9.14    9.14    9.14
BUILDHGT STCK11         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK11         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK11         9.14    9.14    0.00    9.14    9.14    9.14
BUILDHGT STCK11         9.14    9.14    9.14    9.14    9.14    9.14

BUILDHGT STCK12         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK12         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK12         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK12         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK12         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK12         9.14    9.14    9.14    9.14    9.14    9.14

BUILDHGT STCK13         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK13         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK13         9.14    9.14    9.14    9.14    9.14    0.00
BUILDHGT STCK13         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK13         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK13         9.14    9.14    9.14    9.14    9.14    0.00

BUILDHGT STCK14         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK14         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK14         9.14    9.14    9.14    9.14    9.14    0.00
BUILDHGT STCK14         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK14         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK14         9.14    9.14    9.14    9.14    9.14    0.00

BUILDHGT STCK15         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK15         9.14    9.14    0.00    9.14    9.14    9.14
BUILDHGT STCK15         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK15         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK15         9.14    9.14    0.00    9.14    9.14    9.14
BUILDHGT STCK15         9.14    9.14    9.14    9.14    9.14    9.14

BUILDHGT STCK16         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK16         9.14    9.14    0.00    9.14    9.14    9.14
BUILDHGT STCK16         9.14    9.14    9.14    9.14    9.14    9.14
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BUILDHGT STCK16          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK16          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK18          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK18          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK18          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK18          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK18          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK18          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK19          9.14     9.14     9.14     9.14     9.14     9.14
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BUILDHGT STCK19          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK19          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK19          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK19          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK20          9.14     9.14     9.14     9.14     9.14     9.14
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BUILDHGT STCK20          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK20          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK20          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK20          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK21          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK21          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK21          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK21          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK21          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK21          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK22          9.14     9.14     9.14     9.14     9.14     9.14
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BUILDHGT STCK22          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK22          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK22          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK22          9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK23          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK23          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK23          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK23          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK23          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK23          9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK24          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK24          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK24          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK24          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK24          9.14     9.14     9.14     9.14     9.14     9.14
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BUILDHGT STCK24          9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK25          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK25          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK25          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK25          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK25          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK25          9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK26          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK26          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK26          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK26          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK26          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK26          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK27          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK27          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK27          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK27          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK27          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK27          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK28          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK28          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK28          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK28          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK28          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK28          9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK29          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK29          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK29          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK29          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK29          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK29          9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK30          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK30          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK30          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK30          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK30          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK30          9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK31          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK31          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK31          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK31          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK31          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK31          9.14     9.14     9.14     9.14     9.14     0.00
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BUILDHGT STCK32	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK32	9.14	9.14	0.00	9.14	9.14	9.14
BUILDHGT STCK32	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK32	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK32	9.14	9.14	0.00	9.14	9.14	9.14
BUILDHGT STCK32	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK33	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK33	9.14	9.14	0.00	9.14	9.14	9.14
BUILDHGT STCK33	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK33	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK33	9.14	9.14	0.00	9.14	9.14	9.14
BUILDHGT STCK33	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK34	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK34	9.14	9.14	0.00	9.14	9.14	9.14
BUILDHGT STCK34	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK34	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK34	9.14	9.14	0.00	9.14	9.14	9.14
BUILDHGT STCK34	9.14	9.14	9.14	9.14	9.14	9.14
BUILDWID STCK1	142.74	146.83	146.45	141.63	132.50	119.35
BUILDWID STCK1	102.57	82.67	61.18	83.50	103.27	119.91
BUILDWID STCK1	132.91	141.87	146.52	146.71	142.45	134.32
BUILDWID STCK1	142.74	146.83	146.45	141.63	132.50	119.35
BUILDWID STCK1	102.57	82.67	61.18	83.50	103.27	119.91
BUILDWID STCK1	132.91	141.87	146.52	146.71	142.45	134.32
BUILDWID STCK2	45.98	55.15	62.64	68.23	71.75	73.08
BUILDWID STCK2	72.20	69.12	63.94	67.33	70.98	72.47
BUILDWID STCK2	71.76	68.87	63.88	56.96	48.30	38.18
BUILDWID STCK2	45.98	55.15	62.64	68.23	71.75	73.08
BUILDWID STCK2	72.20	69.12	63.94	67.33	70.98	72.47
BUILDWID STCK2	71.76	68.87	63.88	56.96	48.30	38.18
BUILDWID STCK3	74.66	78.71	80.36	150.50	142.52	130.20
BUILDWID STCK3	113.93	53.58	0.00	54.00	63.57	71.20
BUILDWID STCK3	76.67	151.60	155.07	153.82	147.90	137.49
BUILDWID STCK3	146.75	152.65	153.92	150.50	142.52	130.20
BUILDWID STCK3	113.93	53.58	0.00	54.00	63.57	71.20
BUILDWID STCK3	76.67	151.60	155.07	153.82	147.90	68.34
BUILDWID STCK4	146.75	152.65	153.92	83.64	80.18	74.28
BUILDWID STCK4	66.12	55.96	0.00	55.10	114.68	131.10
BUILDWID STCK4	143.53	151.60	155.07	153.82	147.90	137.49
BUILDWID STCK4	146.75	152.65	153.92	83.64	80.18	74.28
BUILDWID STCK4	66.12	55.96	0.00	55.10	114.68	131.10
BUILDWID STCK4	143.53	151.60	84.13	82.62	78.60	72.19
BUILDWID STCK5	142.74	146.83	146.45	141.63	132.50	119.35
BUILDWID STCK5	102.57	82.67	61.18	83.50	103.27	119.91

BUILDWID STCK5	132.91	141.87	146.52	146.71	142.45	134.32
BUILDWID STCK5	142.74	146.83	146.45	141.63	132.50	119.35
BUILDWID STCK5	102.57	82.67	61.18	83.50	103.27	119.91
BUILDWID STCK5	132.91	141.87	146.52	146.71	142.45	134.32
BUILDWID STCK6	145.11	149.43	149.22	144.47	135.34	122.09
BUILDWID STCK6	105.13	84.97	63.86	85.66	105.40	121.94
BUILDWID STCK6	134.77	143.51	147.89	147.77	143.17	136.37
BUILDWID STCK6	145.11	149.43	149.22	144.47	135.34	122.09
BUILDWID STCK6	105.13	84.97	63.86	85.66	105.40	121.94
BUILDWID STCK6	134.77	143.51	147.89	147.77	143.17	136.37
BUILDWID STCK7	145.11	149.43	149.22	144.47	135.34	122.09
BUILDWID STCK7	105.13	84.97	63.86	85.66	105.40	121.94
BUILDWID STCK7	134.77	143.51	147.89	147.77	143.17	136.37
BUILDWID STCK7	145.11	149.43	149.22	144.47	135.34	122.09
BUILDWID STCK7	105.13	84.97	63.86	85.66	105.40	121.94
BUILDWID STCK7	134.77	143.51	147.89	147.77	143.17	136.37
BUILDWID STCK8	44.94	53.93	61.28	66.77	70.24	71.56
BUILDWID STCK8	70.72	67.72	62.91	67.96	70.94	71.77
BUILDWID STCK8	70.42	66.93	61.40	54.01	44.98	34.58
BUILDWID STCK8	44.94	53.93	61.28	66.77	70.24	71.56
BUILDWID STCK8	70.72	67.72	62.91	67.96	70.94	71.77
BUILDWID STCK8	70.42	66.93	61.40	54.01	44.98	34.58
BUILDWID STCK9	145.39	149.74	149.55	144.82	135.68	122.42
BUILDWID STCK9	105.44	85.26	0.00	85.74	105.73	122.50
BUILDWID STCK9	135.55	144.48	149.03	149.04	144.53	136.61
BUILDWID STCK9	145.39	149.74	149.55	144.82	135.68	122.42
BUILDWID STCK9	105.44	85.26	0.00	85.74	105.73	122.50
BUILDWID STCK9	135.55	144.48	149.03	149.04	144.53	136.61
BUILDWID STCK10	145.39	149.74	149.55	144.82	135.68	122.42
BUILDWID STCK10	105.44	85.26	63.49	85.74	105.73	122.50
BUILDWID STCK10	135.55	144.48	149.03	149.04	144.53	136.61
BUILDWID STCK10	145.39	149.74	149.55	144.82	135.68	122.42
BUILDWID STCK10	105.44	85.26	63.49	85.74	105.73	122.50
BUILDWID STCK10	135.55	144.48	149.03	149.04	144.53	136.61
BUILDWID STCK11	147.84	151.91	151.37	146.23	136.64	122.90
BUILDWID STCK11	105.43	84.75	0.00	86.07	107.04	124.75
BUILDWID STCK11	138.68	148.39	153.59	154.12	149.98	141.27
BUILDWID STCK11	147.84	151.91	151.37	146.23	136.64	122.90
BUILDWID STCK11	105.43	84.75	0.00	86.07	107.04	124.75
BUILDWID STCK11	138.68	148.39	153.59	154.12	149.98	141.27
BUILDWID STCK12	147.84	151.91	151.37	146.23	136.64	122.90
BUILDWID STCK12	105.43	84.75	63.16	86.07	107.04	124.75
BUILDWID STCK12	138.68	148.39	153.59	154.12	149.98	141.27
BUILDWID STCK12	147.84	151.91	151.37	146.23	136.64	122.90

BUILDWID STCK12	105.43	84.75	63.16	86.07	107.04	124.75
BUILDWID STCK12	138.68	148.39	153.59	154.12	149.98	141.27
BUILDWID STCK13	86.26	103.64	117.88	128.53	135.28	137.92
BUILDWID STCK13	136.37	130.68	121.93	131.22	136.85	138.32
BUILDWID STCK13	135.59	128.74	117.97	103.62	86.12	0.00
BUILDWID STCK13	86.26	103.64	117.88	128.53	135.28	137.92
BUILDWID STCK13	136.37	130.68	121.93	131.22	136.85	138.32
BUILDWID STCK13	135.59	128.74	117.97	103.62	86.12	0.00
BUILDWID STCK14	86.26	103.64	117.88	128.53	135.28	137.92
BUILDWID STCK14	136.37	130.68	121.93	131.22	136.85	138.32
BUILDWID STCK14	135.59	128.74	117.97	103.62	86.12	0.00
BUILDWID STCK14	86.26	103.64	117.88	128.53	135.28	137.92
BUILDWID STCK14	136.37	130.68	121.93	131.22	136.85	138.32
BUILDWID STCK14	135.59	128.74	117.97	103.62	86.12	0.00
BUILDWID STCK15	144.26	148.49	148.22	143.44	134.30	121.08
BUILDWID STCK15	104.18	84.12	0.00	83.70	104.02	121.17
BUILDWID STCK15	134.65	144.03	149.04	149.52	145.45	136.97
BUILDWID STCK15	144.26	148.49	148.22	143.44	134.30	121.08
BUILDWID STCK15	104.18	84.12	0.00	83.70	104.02	121.17
BUILDWID STCK15	134.65	144.03	149.04	149.52	145.45	136.97
BUILDWID STCK16	144.26	148.49	148.22	143.44	134.30	121.08
BUILDWID STCK16	104.18	84.12	0.00	83.70	104.02	121.17
BUILDWID STCK16	134.65	144.03	149.04	149.52	145.45	136.97
BUILDWID STCK16	144.26	148.49	148.22	143.44	134.30	121.08
BUILDWID STCK16	104.18	84.12	0.00	83.70	104.02	121.17
BUILDWID STCK16	134.65	144.03	149.04	149.52	145.45	136.97
BUILDWID STCK18	145.39	149.99	150.02	145.50	136.56	123.47
BUILDWID STCK18	106.63	86.54	0.00	85.37	105.38	122.19
BUILDWID STCK18	135.29	144.27	148.87	148.95	144.50	136.38
BUILDWID STCK18	145.39	149.99	150.02	145.50	136.56	123.47
BUILDWID STCK18	106.63	86.54	0.00	85.37	105.38	122.19
BUILDWID STCK18	135.29	144.27	148.87	148.95	144.50	136.38
BUILDWID STCK19	145.39	149.99	150.02	145.50	136.56	123.47
BUILDWID STCK19	106.63	86.54	0.00	85.37	105.38	122.19
BUILDWID STCK19	135.29	144.27	148.87	148.95	144.50	136.38
BUILDWID STCK19	145.39	149.99	150.02	145.50	136.56	123.47
BUILDWID STCK19	106.63	86.54	0.00	85.37	105.38	122.19
BUILDWID STCK19	135.29	144.27	148.87	148.95	144.50	136.38
BUILDWID STCK20	147.03	151.26	150.89	145.94	136.56	123.02
BUILDWID STCK20	105.75	85.27	0.00	85.37	105.97	123.35
BUILDWID STCK20	136.98	146.45	151.47	151.88	147.69	139.00
BUILDWID STCK20	147.03	151.26	150.89	145.94	136.56	123.02
BUILDWID STCK20	105.75	85.27	0.00	85.37	105.97	123.35
BUILDWID STCK20	136.98	146.45	151.47	151.88	147.69	139.00

BUILDWID STCK21	147.03	151.26	150.89	145.94	136.56	123.02
BUILDWID STCK21	105.75	85.27	0.00	85.37	105.97	123.35
BUILDWID STCK21	136.98	146.45	151.47	151.88	147.69	139.00
BUILDWID STCK21	147.03	151.26	150.89	145.94	136.56	123.02
BUILDWID STCK21	105.75	85.27	0.00	85.37	105.97	123.35
BUILDWID STCK21	136.98	146.45	151.47	151.88	147.69	139.00
BUILDWID STCK22	49.74	58.98	66.42	71.84	75.08	76.04
BUILDWID STCK22	74.69	71.07	65.57	70.27	73.68	74.85
BUILDWID STCK22	73.75	70.40	64.92	57.46	48.26	0.00
BUILDWID STCK22	49.75	58.98	66.42	71.84	75.08	76.04
BUILDWID STCK22	74.69	71.07	65.57	70.27	73.68	74.85
BUILDWID STCK22	73.75	70.40	64.92	57.46	48.26	0.00
BUILDWID STCK23	44.63	54.01	61.75	145.94	136.56	123.02
BUILDWID STCK23	105.75	85.27	63.18	85.37	105.97	123.35
BUILDWID STCK23	136.98	146.45	61.28	53.42	43.94	0.00
BUILDWID STCK23	44.63	54.01	61.75	145.94	136.56	123.02
BUILDWID STCK23	105.75	69.70	65.17	69.93	105.97	123.35
BUILDWID STCK23	136.98	146.45	61.28	53.42	43.94	0.00
BUILDWID STCK24	92.18	111.73	127.89	140.17	148.18	151.69
BUILDWID STCK24	150.60	144.93	135.13	143.68	148.71	149.23
BUILDWID STCK24	145.21	136.78	124.19	107.83	88.20	0.00
BUILDWID STCK24	92.18	111.73	127.89	140.17	148.18	151.69
BUILDWID STCK24	150.60	144.93	135.13	143.68	148.71	149.23
BUILDWID STCK24	145.21	136.78	124.19	107.83	88.20	0.00
BUILDWID STCK25	92.18	111.73	127.89	140.17	148.18	151.69
BUILDWID STCK25	150.60	144.93	135.13	143.68	148.71	149.23
BUILDWID STCK25	145.21	136.78	124.19	107.83	88.20	0.00
BUILDWID STCK25	92.18	111.73	127.89	140.17	148.18	151.69
BUILDWID STCK25	150.60	144.93	135.13	143.68	148.71	149.23
BUILDWID STCK25	145.21	136.78	124.19	107.83	88.20	0.00
BUILDWID STCK26	146.57	152.99	154.77	151.84	144.30	132.37
BUILDWID STCK26	116.43	96.94	0.00	97.88	117.43	133.41
BUILDWID STCK26	145.34	152.85	155.72	153.86	147.32	136.33
BUILDWID STCK26	146.57	152.99	154.77	151.84	144.30	132.37
BUILDWID STCK26	116.43	96.94	0.00	97.88	117.43	133.41
BUILDWID STCK26	145.34	152.85	155.72	153.86	147.32	136.33
BUILDWID STCK27	146.57	152.99	154.77	151.84	144.30	132.37
BUILDWID STCK27	116.43	96.94	0.00	97.88	117.43	133.41
BUILDWID STCK27	145.34	152.85	155.72	153.86	147.32	136.33
BUILDWID STCK27	146.57	152.99	154.77	151.84	144.30	132.37
BUILDWID STCK27	116.43	96.94	0.00	97.88	117.43	133.41
BUILDWID STCK27	145.34	152.85	155.72	153.86	147.32	136.33
BUILDWID STCK28	49.33	60.63	70.09	151.84	144.30	132.37

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BUILDWID STCK28         116.43    96.94    75.35    97.88   117.43   133.41
BUILDWID STCK28         145.34   152.85    68.46    58.77    47.29     0.00
BUILDWID STCK28          49.33    60.63    70.09   151.84   144.30   132.37
BUILDWID STCK28         116.43    82.08    77.39    82.18   117.43   133.41
BUILDWID STCK28         145.34   152.85    68.46    58.77    47.29     0.00

BUILDWID STCK29          93.45   115.86   134.74   149.54   159.79   165.18
BUILDWID STCK29         165.56   160.90    77.39    82.18    84.48    84.21
BUILDWID STCK29          81.38    76.07    68.46   113.20    90.89     0.00
BUILDWID STCK29          93.45   115.86   134.74   149.54   159.79   165.18
BUILDWID STCK29         165.56   160.90   151.36   159.31   163.61   162.95
BUILDWID STCK29         157.33   146.93   132.07   113.20    90.89     0.00

BUILDWID STCK30          93.45   115.86   134.74   149.54   159.79   165.18
BUILDWID STCK30         165.56   160.90   151.36   159.31   163.61   162.95
BUILDWID STCK30         157.33   146.93   132.07   113.20    90.89     0.00
BUILDWID STCK30          93.45   115.86   134.74   149.54   159.79   165.18
BUILDWID STCK30         165.56   160.90   151.36   159.31   163.61   162.95
BUILDWID STCK30         157.33   146.93   132.07   113.20    90.89     0.00

BUILDWID STCK31          49.17    60.63   153.92   150.50   142.52   130.20
BUILDWID STCK31         113.93    94.20    72.40    94.78   114.68   131.10
BUILDWID STCK31         143.53   151.60    68.30    58.65    47.21     0.00
BUILDWID STCK31          49.17    60.63   153.92   150.50   142.52   130.20
BUILDWID STCK31         113.93    82.86    77.75    81.92   114.68   131.10
BUILDWID STCK31         143.53   151.60    68.30    58.65    47.21     0.00

BUILDWID STCK32         146.75   152.65   153.92   150.50   142.52   130.20
BUILDWID STCK32         113.93    94.20     0.00    94.78   114.68   131.10
BUILDWID STCK32         143.53   151.60   155.07   153.82   147.90   137.49
BUILDWID STCK32         146.75   152.65   153.92   150.50   142.52   130.20
BUILDWID STCK32         113.93    94.20     0.00    94.78   114.68   131.10
BUILDWID STCK32         143.53   151.60   155.07   153.82   147.90   137.49

BUILDWID STCK33         146.75   152.65   153.92   150.50   142.52   130.20
BUILDWID STCK33         113.93    94.20     0.00    94.78   114.68   131.10
BUILDWID STCK33         143.53   151.60   155.07   153.82   147.90   137.49
BUILDWID STCK33         146.75   152.65   153.92   150.50   142.52   130.20
BUILDWID STCK33         113.93    94.20     0.00    94.78   114.68   131.10
BUILDWID STCK33         143.53   151.60   155.07   153.82   147.90   137.49

BUILDWID STCK34          47.74    53.41    57.45    83.64    80.18    74.28
BUILDWID STCK34          66.12    55.96     0.00    51.10    55.69    58.59
BUILDWID STCK34          59.71    59.02    68.30    58.65    47.21    36.22
BUILDWID STCK34          49.17    60.63    70.24    59.74    60.22    58.87
BUILDWID STCK34          55.73    50.90     0.00    51.10    55.69    58.59
BUILDWID STCK34          59.71    59.02    56.54    52.33    46.54    40.63

BUILDLEN STCK1           83.50   103.27   119.91   132.91   141.87   146.52
BUILDLEN STCK1          146.71   142.45   134.32   142.74   146.83   146.45
BUILDLEN STCK1          141.63   132.50   119.35   102.57    82.67    61.18
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BUILDLEN STCK1	83.50	103.27	119.91	132.91	141.87	146.52
BUILDLEN STCK1	146.71	142.45	134.32	142.74	146.83	146.45
BUILDLEN STCK1	141.63	132.50	119.35	102.57	82.67	61.18
BUILDLEN STCK2	67.33	70.98	72.47	71.76	68.87	63.88
BUILDLEN STCK2	56.96	48.30	38.18	45.98	55.15	62.64
BUILDLEN STCK2	68.23	71.75	73.08	72.20	69.12	63.94
BUILDLEN STCK2	67.33	70.98	72.47	71.76	68.87	63.88
BUILDLEN STCK2	56.96	48.30	38.18	45.98	55.15	62.64
BUILDLEN STCK2	68.23	71.75	73.08	72.20	69.12	63.94
BUILDLEN STCK3	54.00	63.57	71.20	143.53	151.60	155.07
BUILDLEN STCK3	153.82	74.68	0.00	74.66	78.71	80.36
BUILDLEN STCK3	79.58	142.52	130.20	113.93	94.20	72.40
BUILDLEN STCK3	94.78	114.68	131.10	143.53	151.60	155.07
BUILDLEN STCK3	153.82	74.68	0.00	74.66	78.71	80.36
BUILDLEN STCK3	79.58	142.52	130.20	113.93	94.20	42.79
BUILDLEN STCK4	94.78	114.68	131.10	79.51	83.08	84.13
BUILDLEN STCK4	82.62	78.60	0.00	78.75	152.65	153.92
BUILDLEN STCK4	150.50	142.52	130.20	113.93	94.20	72.40
BUILDLEN STCK4	94.78	114.68	131.10	79.51	83.08	84.13
BUILDLEN STCK4	82.62	78.60	0.00	78.75	152.65	153.92
BUILDLEN STCK4	150.50	142.52	74.28	66.12	55.96	44.09
BUILDLEN STCK5	83.50	103.27	119.91	132.91	141.87	146.52
BUILDLEN STCK5	146.71	142.45	134.32	142.74	146.83	146.45
BUILDLEN STCK5	141.63	132.50	119.35	102.57	82.67	61.18
BUILDLEN STCK5	83.50	103.27	119.91	132.91	141.87	146.52
BUILDLEN STCK5	146.71	142.45	134.32	142.74	146.83	146.45
BUILDLEN STCK5	141.63	132.50	119.35	102.57	82.67	61.18
BUILDLEN STCK6	85.66	105.40	121.94	134.77	143.51	147.89
BUILDLEN STCK6	147.77	143.17	136.37	145.11	149.43	149.22
BUILDLEN STCK6	144.47	135.34	122.09	105.13	84.97	63.86
BUILDLEN STCK6	85.66	105.40	121.94	134.77	143.51	147.89
BUILDLEN STCK6	147.77	143.17	136.37	145.11	149.43	149.22
BUILDLEN STCK6	144.47	135.34	122.09	105.13	84.97	63.86
BUILDLEN STCK7	85.66	105.40	121.94	134.77	143.51	147.89
BUILDLEN STCK7	147.77	143.17	136.37	145.11	149.43	149.22
BUILDLEN STCK7	144.47	135.34	122.09	105.13	84.97	63.86
BUILDLEN STCK7	85.66	105.40	121.94	134.77	143.51	147.89
BUILDLEN STCK7	147.77	143.17	136.37	145.11	149.43	149.22
BUILDLEN STCK7	144.47	135.34	122.09	105.13	84.97	63.86
BUILDLEN STCK8	67.96	70.94	71.77	70.42	66.93	61.40
BUILDLEN STCK8	54.01	44.98	34.58	44.94	53.93	61.28
BUILDLEN STCK8	66.77	70.24	71.56	70.72	67.72	62.91
BUILDLEN STCK8	67.96	70.94	71.77	70.42	66.93	61.40
BUILDLEN STCK8	54.01	44.98	34.58	44.94	53.93	61.28

BUILDLEN STCK8	66.77	70.24	71.56	70.72	67.72	62.91
BUILDLEN STCK9	85.74	105.73	122.50	135.55	144.48	149.03
BUILDLEN STCK9	149.04	144.53	0.00	145.39	149.74	149.55
BUILDLEN STCK9	144.82	135.68	122.42	105.44	85.26	63.49
BUILDLEN STCK9	85.74	105.73	122.50	135.55	144.48	149.03
BUILDLEN STCK9	149.04	144.53	0.00	145.39	149.74	149.55
BUILDLEN STCK9	144.82	135.68	122.42	105.44	85.26	63.49
BUILDLEN STCK10	85.74	105.73	122.50	135.55	144.48	149.03
BUILDLEN STCK10	149.04	144.53	136.61	145.39	149.74	149.55
BUILDLEN STCK10	144.82	135.68	122.42	105.44	85.26	63.49
BUILDLEN STCK10	85.74	105.73	122.50	135.55	144.48	149.03
BUILDLEN STCK10	149.04	144.53	136.61	145.39	149.74	149.55
BUILDLEN STCK10	144.82	135.68	122.42	105.44	85.26	63.49
BUILDLEN STCK11	86.07	107.04	124.75	138.68	148.39	153.59
BUILDLEN STCK11	154.12	149.98	0.00	147.84	151.91	151.37
BUILDLEN STCK11	146.23	136.64	122.90	105.43	84.75	63.16
BUILDLEN STCK11	86.07	107.04	124.75	138.68	148.39	153.59
BUILDLEN STCK11	154.12	149.98	0.00	147.84	151.91	151.37
BUILDLEN STCK11	146.23	136.64	122.90	105.43	84.75	63.16
BUILDLEN STCK12	86.07	107.04	124.75	138.68	148.39	153.59
BUILDLEN STCK12	154.12	149.98	141.27	147.84	151.91	151.37
BUILDLEN STCK12	146.23	136.64	122.90	105.43	84.75	63.16
BUILDLEN STCK12	86.07	107.04	124.75	138.68	148.39	153.59
BUILDLEN STCK12	154.12	149.98	141.27	147.84	151.91	151.37
BUILDLEN STCK12	146.23	136.64	122.90	105.43	84.75	63.16
BUILDLEN STCK13	131.22	136.85	138.32	135.59	128.74	117.97
BUILDLEN STCK13	103.62	86.12	66.47	86.26	103.64	117.88
BUILDLEN STCK13	128.53	135.28	137.92	136.37	130.68	0.00
BUILDLEN STCK13	131.22	136.85	138.32	135.59	128.74	117.97
BUILDLEN STCK13	103.62	86.12	66.47	86.26	103.64	117.88
BUILDLEN STCK13	128.53	135.28	137.92	136.37	130.68	0.00
BUILDLEN STCK14	131.22	136.85	138.32	135.59	128.74	117.97
BUILDLEN STCK14	103.62	86.12	66.47	86.26	103.64	117.88
BUILDLEN STCK14	128.53	135.28	137.92	136.37	130.68	0.00
BUILDLEN STCK14	131.22	136.85	138.32	135.59	128.74	117.97
BUILDLEN STCK14	103.62	86.12	66.47	86.26	103.64	117.88
BUILDLEN STCK14	128.53	135.28	137.92	136.37	130.68	0.00
BUILDLEN STCK15	83.70	104.02	121.17	134.65	144.03	149.04
BUILDLEN STCK15	149.52	145.45	0.00	144.26	148.49	148.22
BUILDLEN STCK15	143.44	134.30	121.08	104.18	84.12	61.50
BUILDLEN STCK15	83.70	104.02	121.17	134.65	144.03	149.04
BUILDLEN STCK15	149.52	145.45	0.00	144.26	148.49	148.22
BUILDLEN STCK15	143.44	134.30	121.08	104.18	84.12	61.50

BUILDLEN STCK16	83.70	104.02	121.17	134.65	144.03	149.04
BUILDLEN STCK16	149.52	145.45	0.00	144.26	148.49	148.22
BUILDLEN STCK16	143.44	134.30	121.08	104.18	84.12	61.50
BUILDLEN STCK16	83.70	104.02	121.17	134.65	144.03	149.04
BUILDLEN STCK16	149.52	145.45	0.00	144.26	148.49	148.22
BUILDLEN STCK16	143.44	134.30	121.08	104.18	84.12	61.50
BUILDLEN STCK18	85.37	105.38	122.19	135.29	144.27	148.87
BUILDLEN STCK18	148.95	144.50	0.00	145.39	149.99	150.02
BUILDLEN STCK18	145.50	136.56	123.47	106.63	86.54	63.83
BUILDLEN STCK18	85.37	105.38	122.19	135.29	144.27	148.87
BUILDLEN STCK18	148.95	144.50	0.00	145.39	149.99	150.02
BUILDLEN STCK18	145.50	136.56	123.47	106.63	86.54	63.83
BUILDLEN STCK19	85.37	105.38	122.19	135.29	144.27	148.87
BUILDLEN STCK19	148.95	144.50	0.00	145.39	149.99	150.02
BUILDLEN STCK19	145.50	136.56	123.47	106.63	86.54	63.83
BUILDLEN STCK19	85.37	105.38	122.19	135.29	144.27	148.87
BUILDLEN STCK19	148.95	144.50	0.00	145.39	149.99	150.02
BUILDLEN STCK19	145.50	136.56	123.47	106.63	86.54	63.83
BUILDLEN STCK20	85.37	105.97	123.35	136.98	146.45	151.47
BUILDLEN STCK20	151.88	147.69	0.00	147.03	151.26	150.89
BUILDLEN STCK20	145.94	136.56	123.02	105.75	85.27	63.18
BUILDLEN STCK20	85.37	105.97	123.35	136.98	146.45	151.47
BUILDLEN STCK20	151.88	147.69	0.00	147.03	151.26	150.89
BUILDLEN STCK20	145.94	136.56	123.02	105.75	85.27	63.18
BUILDLEN STCK21	85.37	105.97	123.35	136.98	146.45	151.47
BUILDLEN STCK21	151.88	147.69	0.00	147.03	151.26	150.89
BUILDLEN STCK21	145.94	136.56	123.02	105.75	85.27	63.18
BUILDLEN STCK21	85.37	105.97	123.35	136.98	146.45	151.47
BUILDLEN STCK21	151.88	147.69	0.00	147.03	151.26	150.89
BUILDLEN STCK21	145.94	136.56	123.02	105.75	85.27	63.18
BUILDLEN STCK22	70.27	73.68	74.85	73.75	70.40	64.92
BUILDLEN STCK22	57.46	48.26	39.00	49.75	58.98	66.42
BUILDLEN STCK22	71.84	75.08	76.04	74.69	71.07	0.00
BUILDLEN STCK22	70.27	73.68	74.85	73.75	70.40	64.92
BUILDLEN STCK22	57.46	48.26	39.00	49.75	58.98	66.42
BUILDLEN STCK22	71.84	75.08	76.04	74.69	71.07	0.00
BUILDLEN STCK23	69.93	72.57	73.00	136.98	146.45	151.47
BUILDLEN STCK23	151.88	147.69	139.00	147.03	151.26	150.89
BUILDLEN STCK23	145.94	136.56	73.06	72.48	69.70	0.00
BUILDLEN STCK23	69.93	72.57	73.00	136.98	146.45	151.47
BUILDLEN STCK23	151.88	43.94	34.06	44.63	151.26	150.89
BUILDLEN STCK23	145.94	136.56	73.06	72.48	69.70	0.00
BUILDLEN STCK24	143.68	148.71	149.23	145.21	136.78	124.19
BUILDLEN STCK24	107.83	88.20	69.82	92.18	111.73	127.89

BUILDLEN STCK24	140.17	148.18	151.69	150.60	144.93	0.00
BUILDLEN STCK24	143.68	148.71	149.23	145.21	136.78	124.19
BUILDLEN STCK24	107.83	88.20	69.82	92.18	111.73	127.89
BUILDLEN STCK24	140.17	148.18	151.69	150.60	144.93	0.00
BUILDLEN STCK25	143.68	148.71	149.23	145.21	136.78	124.19
BUILDLEN STCK25	107.83	88.20	69.82	92.18	111.73	127.89
BUILDLEN STCK25	140.17	148.18	151.69	150.60	144.93	0.00
BUILDLEN STCK25	143.68	148.71	149.23	145.21	136.78	124.19
BUILDLEN STCK25	107.83	88.20	69.82	92.18	111.73	127.89
BUILDLEN STCK25	140.17	148.18	151.69	150.60	144.93	0.00
BUILDLEN STCK26	97.88	117.43	133.41	145.34	152.85	155.72
BUILDLEN STCK26	153.86	147.32	0.00	146.57	152.99	154.77
BUILDLEN STCK26	151.84	144.30	132.37	116.43	96.94	75.35
BUILDLEN STCK26	97.88	117.43	133.41	145.34	152.85	155.72
BUILDLEN STCK26	153.86	147.32	0.00	146.57	152.99	154.77
BUILDLEN STCK26	151.84	144.30	132.37	116.43	96.94	75.35
BUILDLEN STCK27	97.88	117.43	133.41	145.34	152.85	155.72
BUILDLEN STCK27	153.86	147.32	0.00	146.57	152.99	154.77
BUILDLEN STCK27	151.84	144.30	132.37	116.43	96.94	75.35
BUILDLEN STCK27	97.88	117.43	133.41	145.34	152.85	155.72
BUILDLEN STCK27	153.86	147.32	0.00	146.57	152.99	154.77
BUILDLEN STCK27	151.84	144.30	132.37	116.43	96.94	75.35
BUILDLEN STCK28	82.18	84.48	84.21	145.34	152.85	155.72
BUILDLEN STCK28	153.86	147.32	136.33	146.57	152.99	154.77
BUILDLEN STCK28	151.84	144.30	84.87	84.77	82.08	0.00
BUILDLEN STCK28	82.18	84.48	84.21	145.34	152.85	155.72
BUILDLEN STCK28	153.86	47.29	36.53	49.33	152.99	154.77
BUILDLEN STCK28	151.84	144.30	84.87	84.77	82.08	0.00
BUILDLEN STCK29	159.31	163.61	162.95	157.33	146.93	132.07
BUILDLEN STCK29	113.20	90.89	36.53	49.33	60.63	70.09
BUILDLEN STCK29	77.42	82.40	84.87	165.56	160.90	0.00
BUILDLEN STCK29	159.31	163.61	162.95	157.33	146.93	132.07
BUILDLEN STCK29	113.20	90.89	68.20	93.45	115.86	134.74
BUILDLEN STCK29	149.54	159.79	165.18	165.56	160.90	0.00
BUILDLEN STCK30	159.31	163.61	162.95	157.33	146.93	132.07
BUILDLEN STCK30	113.20	90.89	68.20	93.45	115.86	134.74
BUILDLEN STCK30	149.54	159.79	165.18	165.56	160.90	0.00
BUILDLEN STCK30	159.31	163.61	162.95	157.33	146.93	132.07
BUILDLEN STCK30	113.20	90.89	68.20	93.45	115.86	134.74
BUILDLEN STCK30	149.54	159.79	165.18	165.56	160.90	0.00
BUILDLEN STCK31	81.92	84.22	131.10	143.53	151.60	155.07
BUILDLEN STCK31	153.82	147.90	137.49	146.75	152.65	153.92
BUILDLEN STCK31	150.50	142.52	85.44	85.45	82.86	0.00
BUILDLEN STCK31	81.92	84.22	131.10	143.53	151.60	155.07

BUILDLEN	STCK31	153.82	47.21	36.22	49.17	152.65	153.92
BUILDLEN	STCK31	150.50	142.52	85.44	85.45	82.86	0.00
BUILDLEN	STCK32	94.78	114.68	131.10	143.53	151.60	155.07
BUILDLEN	STCK32	153.82	147.90	0.00	146.75	152.65	153.92
BUILDLEN	STCK32	150.50	142.52	130.20	113.93	94.20	72.40
BUILDLEN	STCK32	94.78	114.68	131.10	143.53	151.60	155.07
BUILDLEN	STCK32	153.82	147.90	0.00	146.75	152.65	153.92
BUILDLEN	STCK32	150.50	142.52	130.20	113.93	94.20	72.40
BUILDLEN	STCK33	94.78	114.68	131.10	143.53	151.60	155.07
BUILDLEN	STCK33	153.82	147.90	0.00	146.75	152.65	153.92
BUILDLEN	STCK33	150.50	142.52	130.20	113.93	94.20	72.40
BUILDLEN	STCK33	94.78	114.68	131.10	143.53	151.60	155.07
BUILDLEN	STCK33	153.82	147.90	0.00	146.75	152.65	153.92
BUILDLEN	STCK33	150.50	142.52	130.20	113.93	94.20	72.40
BUILDLEN	STCK34	51.10	55.69	58.59	79.51	83.08	84.13
BUILDLEN	STCK34	82.62	78.60	0.00	47.74	53.41	57.45
BUILDLEN	STCK34	59.74	60.22	85.44	85.45	82.86	77.75
BUILDLEN	STCK34	81.92	84.22	83.97	59.71	59.02	56.54
BUILDLEN	STCK34	52.33	46.54	0.00	47.74	53.41	57.45
BUILDLEN	STCK34	59.74	60.22	58.87	55.73	50.90	44.95
XBADJ	STCK1	-3.57	-9.42	-14.97	-20.08	-24.57	-28.32
XBADJ	STCK1	-31.20	-33.14	-34.07	-44.59	-53.75	-61.29
XBADJ	STCK1	-66.95	-70.59	-72.08	-71.38	-68.51	-63.56
XBADJ	STCK1	-79.92	-93.86	-104.94	-112.83	-117.30	-118.20
XBADJ	STCK1	-115.51	-109.31	-100.25	-98.15	-93.08	-85.17
XBADJ	STCK1	-74.67	-61.91	-47.27	-31.19	-14.16	2.38
XBADJ	STCK2	-32.53	-38.21	-42.72	-45.93	-47.75	-48.12
XBADJ	STCK2	-47.03	-44.51	-40.63	-44.49	-48.84	-51.71
XBADJ	STCK2	-53.00	-52.69	-50.77	-47.31	-42.42	-36.23
XBADJ	STCK2	-34.80	-32.77	-29.75	-25.83	-21.12	-15.76
XBADJ	STCK2	-9.93	-3.80	2.45	-1.49	-6.31	-10.94
XBADJ	STCK2	-15.23	-19.06	-22.31	-24.89	-26.70	-27.71
XBADJ	STCK3	-53.67	-56.93	-58.45	10.79	2.72	-5.42
XBADJ	STCK3	-13.40	-40.38	0.00	-30.92	-28.44	-25.10
XBADJ	STCK3	-21.00	-101.01	-107.94	-111.58	-111.84	-109.50
XBADJ	STCK3	-126.86	-140.37	-149.62	-154.32	-154.33	-149.65
XBADJ	STCK3	-140.42	-34.30	0.00	-43.74	-50.27	-55.26
XBADJ	STCK3	-58.58	-41.51	-22.27	-2.35	17.65	-48.79
XBADJ	STCK4	16.77	-4.47	-25.59	-59.39	-57.49	-53.83
XBADJ	STCK4	-48.55	-41.78	0.00	-32.27	-146.03	-154.67
XBADJ	STCK4	-158.61	-157.73	-152.06	-141.77	-127.17	-109.51
XBADJ	STCK4	-111.55	-110.21	-105.51	-20.12	-25.60	-30.30
XBADJ	STCK4	-34.07	-36.82	0.00	-46.48	-6.63	0.75
XBADJ	STCK4	8.10	15.21	-62.22	-59.80	-55.57	-49.65

XBADJ	STCK5	-13.38	-29.22	-44.17	-57.78	-69.63	-79.37
XBADJ	STCK5	-86.70	-91.39	-93.31	-103.01	-109.59	-112.83
XBADJ	STCK5	-112.65	-109.04	-102.12	-92.10	-79.28	-64.05
XBADJ	STCK5	-70.12	-74.06	-75.74	-75.13	-72.23	-67.14
XBADJ	STCK5	-60.01	-51.06	-41.01	-39.73	-37.24	-33.62
XBADJ	STCK5	-28.98	-23.46	-17.22	-10.46	-3.39	2.87
XBADJ	STCK6	-3.00	-9.61	-15.93	-21.77	-26.95	-31.31
XBADJ	STCK6	-34.71	-37.06	-38.83	-49.60	-58.86	-66.33
XBADJ	STCK6	-71.79	-75.07	-76.06	-74.75	-71.16	-67.03
XBADJ	STCK6	-82.67	-95.79	-106.01	-113.00	-116.57	-116.58
XBADJ	STCK6	-113.06	-106.10	-97.54	-95.51	-90.57	-82.89
XBADJ	STCK6	-72.68	-60.27	-46.02	-30.38	-13.82	3.17
XBADJ	STCK7	-13.24	-30.06	-45.96	-60.47	-73.13	-83.58
XBADJ	STCK7	-91.49	-96.62	-99.35	-109.25	-115.82	-118.88
XBADJ	STCK7	-118.32	-114.17	-106.56	-95.70	-81.93	-67.30
XBADJ	STCK7	-72.42	-75.35	-75.98	-74.31	-70.38	-64.31
XBADJ	STCK7	-56.28	-46.55	-37.02	-35.86	-33.61	-30.34
XBADJ	STCK7	-26.15	-21.16	-15.53	-9.43	-3.04	3.44
XBADJ	STCK8	-36.72	-41.69	-45.39	-47.71	-48.58	-47.98
XBADJ	STCK8	-45.92	-42.46	-37.71	-42.74	-46.47	-48.79
XBADJ	STCK8	-49.63	-48.96	-46.80	-43.22	-38.33	-32.27
XBADJ	STCK8	-31.24	-29.25	-26.38	-22.71	-18.35	-13.42
XBADJ	STCK8	-8.10	-2.52	3.13	-2.20	-7.46	-12.49
XBADJ	STCK8	-17.14	-21.28	-24.76	-27.50	-29.39	-30.64
XBADJ	STCK9	-1.18	-7.26	-13.12	-18.58	-23.47	-27.66
XBADJ	STCK9	-31.00	-33.40	0.00	-46.34	-56.16	-64.28
XBADJ	STCK9	-70.44	-74.47	-76.23	-75.67	-72.82	-68.08
XBADJ	STCK9	-84.56	-98.46	-109.38	-116.97	-121.01	-121.37
XBADJ	STCK9	-118.04	-111.13	0.00	-99.04	-93.58	-85.27
XBADJ	STCK9	-74.37	-61.21	-46.19	-29.77	-12.45	4.59
XBADJ	STCK10	-12.64	-28.32	-43.14	-56.65	-68.43	-78.14
XBADJ	STCK10	-85.47	-90.21	-92.53	-102.63	-109.61	-113.25
XBADJ	STCK10	-113.46	-110.22	-103.63	-93.89	-81.30	-66.57
XBADJ	STCK10	-73.10	-77.41	-79.36	-78.91	-76.05	-70.89
XBADJ	STCK10	-63.57	-54.32	-44.08	-42.76	-40.14	-36.30
XBADJ	STCK10	-31.36	-25.46	-18.79	-11.55	-3.96	3.08
XBADJ	STCK11	-0.52	-6.88	-13.04	-18.80	-23.99	-28.45
XBADJ	STCK11	-32.04	-34.66	0.00	-45.97	-55.98	-64.28
XBADJ	STCK11	-70.64	-74.84	-76.77	-76.37	-73.65	-68.69
XBADJ	STCK11	-85.55	-100.15	-111.71	-119.88	-124.40	-125.14
XBADJ	STCK11	-122.08	-115.31	0.00	-101.87	-95.94	-87.09
XBADJ	STCK11	-75.59	-61.80	-46.13	-29.06	-11.10	5.53
XBADJ	STCK12	-12.81	-30.05	-46.37	-61.28	-74.33	-85.12

XBADJ	STCK12	-93.33	-98.70	-101.07	-109.65	-116.55	-119.91
XBADJ	STCK12	-119.63	-115.71	-108.28	-97.56	-83.87	-67.64
XBADJ	STCK12	-73.26	-76.99	-78.38	-77.39	-74.05	-68.46
XBADJ	STCK12	-60.79	-51.28	-40.20	-38.20	-35.37	-31.46
XBADJ	STCK12	-26.60	-20.92	-14.62	-7.87	-0.88	4.48
XBADJ	STCK13	-92.74	-86.96	-78.54	-67.73	-54.87	-40.33
XBADJ	STCK13	-24.57	-8.07	8.68	4.43	-0.18	-4.79
XBADJ	STCK13	-9.25	-13.42	-17.19	-20.44	-23.06	0.00
XBADJ	STCK13	-38.49	-49.89	-59.78	-67.86	-73.87	-77.64
XBADJ	STCK13	-79.05	-78.05	-75.15	-90.68	-103.46	-113.09
XBADJ	STCK13	-119.29	-121.86	-120.73	-115.93	-107.61	0.00
XBADJ	STCK14	-29.31	-26.73	-23.35	-19.25	-14.57	-9.45
XBADJ	STCK14	-4.04	1.49	6.98	-8.49	-23.91	-38.61
XBADJ	STCK14	-52.14	-64.09	-74.08	-81.83	-87.09	0.00
XBADJ	STCK14	-101.92	-110.12	-114.97	-116.34	-114.16	-108.52
XBADJ	STCK14	-99.58	-87.62	-73.45	-77.77	-79.73	-79.26
XBADJ	STCK14	-76.39	-71.20	-63.84	-54.54	-43.59	0.00
XBADJ	STCK15	-0.36	-6.65	-12.73	-18.42	-23.56	-27.98
XBADJ	STCK15	-31.55	-34.16	0.00	-45.47	-55.16	-63.18
XBADJ	STCK15	-69.27	-73.26	-75.02	-74.51	-71.73	-66.77
XBADJ	STCK15	-83.34	-97.37	-108.44	-116.22	-120.47	-121.06
XBADJ	STCK15	-117.97	-111.30	0.00	-98.79	-93.33	-85.04
XBADJ	STCK15	-74.17	-61.04	-46.06	-29.67	-12.39	5.27
XBADJ	STCK16	-9.63	-26.60	-42.76	-57.62	-70.73	-81.69
XBADJ	STCK16	-90.17	-95.91	0.00	-107.81	-114.94	-118.59
XBADJ	STCK16	-118.62	-115.06	-108.00	-97.65	-84.34	-68.47
XBADJ	STCK16	-74.07	-77.42	-78.42	-77.03	-73.31	-67.35
XBADJ	STCK16	-59.35	-49.55	0.00	-36.45	-33.55	-29.63
XBADJ	STCK16	-24.81	-19.24	-13.08	-6.53	0.22	6.97
XBADJ	STCK18	1.06	-5.36	-11.61	-17.51	-22.88	-27.55
XBADJ	STCK18	-31.39	-34.27	0.00	-48.58	-58.84	-67.33
XBADJ	STCK18	-73.76	-77.96	-79.78	-79.18	-76.18	-70.86
XBADJ	STCK18	-86.43	-100.02	-110.58	-117.77	-121.39	-121.32
XBADJ	STCK18	-117.56	-110.23	0.00	-96.82	-91.14	-82.70
XBADJ	STCK18	-71.74	-58.60	-43.69	-27.44	-10.36	7.03
XBADJ	STCK19	-11.85	-29.09	-45.44	-60.41	-73.54	-84.44
XBADJ	STCK19	-92.78	-98.29	0.00	-112.01	-119.07	-122.52
XBADJ	STCK19	-122.24	-118.25	-110.66	-99.72	-85.74	-69.16
XBADJ	STCK19	-73.52	-76.29	-76.75	-74.88	-70.73	-64.43
XBADJ	STCK19	-56.17	-46.21	0.00	-33.39	-30.92	-27.51
XBADJ	STCK19	-23.26	-18.31	-12.80	-6.91	-0.80	5.33
XBADJ	STCK20	-73.62	-76.33	-76.72	-74.78	-70.56	-64.20
XBADJ	STCK20	-55.89	-45.88	0.00	-33.00	-30.52	-27.11
XBADJ	STCK20	-22.88	-17.95	-12.48	-6.62	-0.57	5.50

XBADJ	STCK20	-11.75	-29.64	-46.63	-62.20	-75.89	-87.27
XBADJ	STCK20	-95.99	-101.80	0.00	-114.03	-120.74	-123.78
XBADJ	STCK20	-123.06	-118.61	-110.55	-99.13	-84.69	-68.68
XBADJ	STCK21	-87.03	-101.88	-113.64	-121.94	-126.54	-127.30
XBADJ	STCK21	-124.19	-117.30	0.00	-104.12	-98.23	-89.36
XBADJ	STCK21	-77.77	-63.82	-47.93	-30.58	-12.30	6.35
XBADJ	STCK21	1.66	-4.09	-9.71	-15.04	-19.90	-24.17
XBADJ	STCK21	-27.70	-30.39	0.00	-42.90	-53.02	-61.53
XBADJ	STCK21	-68.17	-72.74	-75.10	-75.17	-72.97	-69.53
XBADJ	STCK22	-44.68	-50.32	-54.42	-56.87	-57.60	-56.57
XBADJ	STCK22	-53.82	-49.44	-44.69	-48.85	-51.53	-52.64
XBADJ	STCK22	-52.16	-50.08	-46.49	-41.48	-35.22	0.00
XBADJ	STCK22	-25.59	-23.37	-20.43	-16.88	-12.81	-8.35
XBADJ	STCK22	-3.64	1.18	5.69	-0.89	-7.45	-13.78
XBADJ	STCK22	-19.69	-25.00	-29.55	-33.21	-35.85	0.00
XBADJ	STCK23	-32.13	-29.50	-25.97	-131.22	-147.25	-158.82
XBADJ	STCK23	-165.56	-167.26	-163.89	-166.51	-164.07	-156.64
XBADJ	STCK23	-144.45	-127.88	-23.62	-26.99	-29.53	0.00
XBADJ	STCK23	-37.80	-43.07	-47.04	-5.76	0.81	7.35
XBADJ	STCK23	13.67	-44.57	-40.65	-45.87	12.81	5.75
XBADJ	STCK23	-1.49	-8.68	-49.44	-45.50	-40.17	0.00
XBADJ	STCK24	-99.77	-93.61	-84.59	-73.01	-59.21	-43.61
XBADJ	STCK24	-26.68	-8.95	5.97	0.28	-5.41	-10.94
XBADJ	STCK24	-16.14	-20.84	-24.92	-28.24	-30.69	0.00
XBADJ	STCK24	-43.91	-55.11	-64.64	-72.20	-77.57	-80.58
XBADJ	STCK24	-81.15	-79.25	-75.79	-92.46	-106.32	-116.95
XBADJ	STCK24	-124.03	-127.34	-126.78	-122.36	-114.23	0.00
XBADJ	STCK25	-28.36	-25.31	-21.49	-17.02	-12.04	-6.69
XBADJ	STCK25	-1.13	4.46	6.82	-11.45	-29.36	-46.39
XBADJ	STCK25	-62.00	-75.74	-87.17	-95.95	-101.82	0.00
XBADJ	STCK25	-115.32	-123.41	-127.74	-128.19	-124.74	-117.51
XBADJ	STCK25	-106.70	-92.65	-76.64	-80.73	-82.37	-81.50
XBADJ	STCK25	-78.16	-72.44	-64.53	-54.65	-43.11	0.00
XBADJ	STCK26	-1.72	-8.68	-15.37	-21.59	-27.16	-31.91
XBADJ	STCK26	-35.68	-38.38	0.00	-52.52	-64.19	-73.91
XBADJ	STCK26	-81.38	-86.37	-88.75	-88.42	-85.41	-80.64
XBADJ	STCK26	-96.16	-108.75	-118.04	-123.75	-125.69	-123.81
XBADJ	STCK26	-118.18	-108.95	0.00	-94.04	-88.80	-80.86
XBADJ	STCK26	-70.46	-57.92	-43.62	-28.00	-11.53	5.29
XBADJ	STCK27	-10.30	-26.58	-42.05	-56.25	-68.73	-79.13
XBADJ	STCK27	-87.12	-92.46	0.00	-106.96	-116.31	-122.12
XBADJ	STCK27	-124.23	-122.56	-117.16	-108.21	-95.97	-81.64
XBADJ	STCK27	-87.57	-90.85	-91.36	-89.09	-84.12	-76.60
XBADJ	STCK27	-66.74	-54.86	0.00	-39.61	-36.68	-32.64

XBADJ	STCK27	-27.61	-21.74	-15.21	-8.22	-0.97	6.29
XBADJ	STCK28	-36.75	-34.03	-30.27	-133.31	-149.74	-161.63
XBADJ	STCK28	-168.60	-170.46	-167.13	-171.04	-170.38	-164.55
XBADJ	STCK28	-153.73	-138.23	-31.33	-34.98	-37.58	0.00
XBADJ	STCK28	-45.43	-50.45	-53.94	-12.03	-3.11	5.91
XBADJ	STCK28	14.74	-46.45	-41.48	-47.43	17.39	9.79
XBADJ	STCK28	1.89	-6.07	-53.55	-49.78	-44.51	0.00
XBADJ	STCK29	-108.66	-101.50	-91.26	-78.25	-62.86	-45.56
XBADJ	STCK29	-26.88	-7.37	-80.19	-92.71	-102.41	-109.00
XBADJ	STCK29	-112.27	-112.14	-108.60	-32.69	-36.32	0.00
XBADJ	STCK29	-50.65	-62.11	-71.69	-79.08	-84.07	-86.51
XBADJ	STCK29	-86.32	-83.51	-79.36	-97.69	-113.05	-124.98
XBADJ	STCK29	-133.11	-137.20	-137.12	-132.87	-124.58	0.00
XBADJ	STCK30	-44.03	-39.87	-34.50	-28.08	-20.81	-12.90
XBADJ	STCK30	-4.61	3.83	10.96	-7.35	-25.45	-42.76
XBADJ	STCK30	-58.78	-73.01	-85.03	-94.46	-101.02	0.00
XBADJ	STCK30	-115.28	-123.74	-128.45	-129.25	-126.13	-119.17
XBADJ	STCK30	-108.59	-94.72	-79.16	-86.09	-90.41	-91.98
XBADJ	STCK30	-90.75	-86.77	-80.15	-71.10	-59.88	0.00
XBADJ	STCK31	-43.69	-40.41	-120.86	-139.99	-154.86	-165.03
XBADJ	STCK31	-170.19	-170.17	-164.98	-166.84	-163.94	-156.05
XBADJ	STCK31	-143.43	-126.45	-24.24	-27.62	-30.17	0.00
XBADJ	STCK31	-38.23	-43.81	-10.24	-3.54	3.26	9.96
XBADJ	STCK31	16.36	-46.41	-42.82	-50.15	11.28	2.14
XBADJ	STCK31	-7.08	-16.07	-61.20	-57.82	-52.69	0.00
XBADJ	STCK32	-86.24	-89.24	-89.54	-87.12	-82.04	-74.48
XBADJ	STCK32	-64.65	-52.86	0.00	-36.92	-33.57	-29.20
XBADJ	STCK32	-23.94	-17.96	-11.43	-4.55	2.47	8.61
XBADJ	STCK32	-8.54	-25.44	-41.56	-56.42	-69.56	-80.59
XBADJ	STCK32	-89.17	-95.05	0.00	-109.83	-119.08	-124.72
XBADJ	STCK32	-126.56	-124.56	-118.78	-109.38	-96.66	-81.01
XBADJ	STCK33	-97.70	-112.44	-123.77	-131.33	-134.91	-134.38
XBADJ	STCK33	-129.78	-121.22	0.00	-105.50	-99.12	-89.72
XBADJ	STCK33	-77.60	-63.12	-46.73	-28.91	-10.22	7.99
XBADJ	STCK33	2.92	-2.24	-7.33	-12.20	-16.70	-20.69
XBADJ	STCK33	-24.05	-26.68	0.00	-41.25	-53.53	-64.19
XBADJ	STCK33	-72.90	-79.39	-83.47	-85.02	-83.98	-80.39
XBADJ	STCK34	-54.03	-54.70	-53.71	-108.72	-115.95	-119.65
XBADJ	STCK34	-119.72	-116.15	0.00	-16.39	-14.45	-12.06
XBADJ	STCK34	-9.31	-6.28	-107.28	-112.42	-114.15	-112.41
XBADJ	STCK34	-113.02	-110.51	-104.64	-8.63	-12.11	-15.23
XBADJ	STCK34	-17.88	-19.99	0.00	-31.35	-38.96	-45.38
XBADJ	STCK34	-50.43	-53.94	-55.81	-55.99	-54.47	-51.72

YBADJ	STCK1	-26.78	-19.66	-11.94	-3.86	4.34	12.41
YBADJ	STCK1	20.10	27.18	32.97	38.18	42.22	44.98
YBADJ	STCK1	46.38	46.36	44.94	42.15	38.09	33.09
YBADJ	STCK1	26.78	19.66	11.94	3.86	-4.34	-12.41
YBADJ	STCK1	-20.10	-27.18	-32.97	-38.18	-42.22	-44.98
YBADJ	STCK1	-46.38	-46.36	-44.94	-42.15	-38.09	-33.09
YBADJ	STCK2	21.50	21.27	20.39	18.89	16.81	14.23
YBADJ	STCK2	11.21	7.86	4.26	1.13	-2.72	-6.48
YBADJ	STCK2	-10.05	-13.32	-16.18	-18.55	-20.35	-21.54
YBADJ	STCK2	-21.50	-21.27	-20.39	-18.89	-16.81	-14.23
YBADJ	STCK2	-11.21	-7.86	-4.26	-1.13	2.72	6.48
YBADJ	STCK2	10.05	13.32	16.18	18.55	20.35	21.54
YBADJ	STCK3	-6.41	-10.91	-15.08	15.76	29.75	42.84
YBADJ	STCK3	54.62	-27.07	0.00	-26.68	-25.15	-22.85
YBADJ	STCK3	-19.86	78.53	72.11	63.51	52.98	40.83
YBADJ	STCK3	27.32	13.21	-1.29	-15.76	-29.75	-42.84
YBADJ	STCK3	-54.62	27.07	0.00	26.68	25.15	22.85
YBADJ	STCK3	19.86	-78.53	-72.11	-63.51	-52.98	-1.72
YBADJ	STCK4	59.57	69.70	77.71	-19.54	-22.65	-25.08
YBADJ	STCK4	-26.74	-27.59	0.00	-26.77	52.87	39.96
YBADJ	STCK4	25.85	10.94	-4.29	-19.39	-33.91	-47.40
YBADJ	STCK4	-59.57	-69.70	-77.71	19.54	22.65	25.08
YBADJ	STCK4	26.74	27.59	0.00	26.77	-52.87	-39.96
YBADJ	STCK4	-25.85	-10.94	11.77	7.24	2.48	-2.35
YBADJ	STCK5	31.64	36.17	39.61	41.84	42.79	42.45
YBADJ	STCK5	40.82	37.95	33.46	28.37	22.42	15.79
YBADJ	STCK5	8.68	1.30	-6.12	-13.35	-20.17	-26.15
YBADJ	STCK5	-31.64	-36.17	-39.61	-41.84	-42.79	-42.45
YBADJ	STCK5	-40.82	-37.95	-33.46	-28.37	-22.42	-15.79
YBADJ	STCK5	-8.68	-1.30	6.12	13.35	20.17	26.15
YBADJ	STCK6	-22.95	-15.86	-8.28	-0.45	7.40	15.02
YBADJ	STCK6	22.18	28.67	35.10	39.84	43.09	45.04
YBADJ	STCK6	45.62	44.81	42.64	39.17	34.52	29.35
YBADJ	STCK6	22.95	15.86	8.28	0.45	-7.40	-15.02
YBADJ	STCK6	-22.18	-28.67	-35.10	-39.84	-43.09	-45.04
YBADJ	STCK6	-45.62	-44.81	-42.64	-39.17	-34.52	-29.35
YBADJ	STCK7	36.69	41.11	44.27	46.09	46.51	45.51
YBADJ	STCK7	43.13	39.45	35.37	29.59	22.65	15.01
YBADJ	STCK7	6.92	-1.38	-9.64	-17.60	-25.03	-31.16
YBADJ	STCK7	-36.69	-41.11	-44.27	-46.09	-46.51	-45.51
YBADJ	STCK7	-43.13	-39.45	-35.37	-29.59	-22.65	-15.01
YBADJ	STCK7	-6.92	1.38	9.64	17.60	25.03	31.16
YBADJ	STCK8	20.27	19.51	18.15	16.24	13.84	11.02
YBADJ	STCK8	7.86	4.47	0.82	-2.74	-6.22	-9.50

YBADJ	STCK8	-12.50	-15.12	-17.28	-18.91	-19.97	-20.42
YBADJ	STCK8	-20.27	-19.51	-18.15	-16.24	-13.84	-11.02
YBADJ	STCK8	-7.86	-4.47	-0.81	2.74	6.22	9.50
YBADJ	STCK8	12.50	15.12	17.28	18.91	19.97	20.42
YBADJ	STCK9	-26.35	-18.71	-10.50	-1.96	6.63	15.02
YBADJ	STCK9	22.95	30.19	0.00	41.69	45.60	48.13
YBADJ	STCK9	49.20	48.77	46.86	43.52	38.87	33.19
YBADJ	STCK9	26.35	18.71	10.50	1.96	-6.63	-15.02
YBADJ	STCK9	-22.95	-30.19	0.00	-41.69	-45.60	-48.13
YBADJ	STCK9	-49.20	-48.77	-46.86	-43.52	-38.87	-33.19
YBADJ	STCK10	29.93	34.73	38.48	41.05	42.38	42.42
YBADJ	STCK10	41.17	38.67	34.82	30.23	24.54	18.11
YBADJ	STCK10	11.13	3.81	-3.62	-10.95	-17.94	-24.23
YBADJ	STCK10	-29.93	-34.73	-38.48	-41.05	-42.38	-42.42
YBADJ	STCK10	-41.17	-38.67	-34.83	-30.23	-24.54	-18.11
YBADJ	STCK10	-11.13	-3.81	3.62	10.95	17.94	24.23
YBADJ	STCK11	-27.95	-19.98	-11.40	-2.48	6.52	15.32
YBADJ	STCK11	23.66	31.27	0.00	42.52	46.63	49.34
YBADJ	STCK11	50.54	50.21	48.35	45.02	40.33	34.40
YBADJ	STCK11	27.95	19.98	11.40	2.48	-6.52	-15.32
YBADJ	STCK11	-23.66	-31.27	0.00	-42.52	-46.63	-49.34
YBADJ	STCK11	-50.54	-50.21	-48.35	-45.02	-40.33	-34.40
YBADJ	STCK12	35.72	40.59	44.23	46.52	47.40	46.83
YBADJ	STCK12	44.85	41.50	36.06	30.22	23.47	16.01
YBADJ	STCK12	8.06	-0.14	-8.33	-16.27	-23.71	-30.44
YBADJ	STCK12	-35.72	-40.59	-44.23	-46.52	-47.40	-46.83
YBADJ	STCK12	-44.85	-41.50	-36.06	-30.22	-23.47	-16.01
YBADJ	STCK12	-8.06	0.14	8.33	16.27	23.71	30.44
YBADJ	STCK13	-47.55	-51.64	-54.15	-55.02	-54.22	-51.77
YBADJ	STCK13	-47.75	-42.27	-35.05	-27.13	-18.53	-9.38
YBADJ	STCK13	0.06	9.50	18.65	27.24	34.99	0.00
YBADJ	STCK13	47.55	51.64	54.15	55.02	54.22	51.77
YBADJ	STCK13	47.75	42.27	35.05	27.13	18.53	9.38
YBADJ	STCK13	-0.06	-9.50	-18.65	-27.24	-34.99	0.00
YBADJ	STCK14	-34.64	-27.91	-20.32	-12.12	-3.56	5.12
YBADJ	STCK14	13.64	21.75	29.66	36.31	41.69	45.81
YBADJ	STCK14	48.54	49.79	49.54	47.77	44.55	0.00
YBADJ	STCK14	34.64	27.91	20.32	12.12	3.56	-5.12
YBADJ	STCK14	-13.64	-21.75	-29.66	-36.31	-41.69	-45.81
YBADJ	STCK14	-48.54	-49.79	-49.54	-47.77	-44.55	0.00
YBADJ	STCK15	-26.66	-19.08	-10.93	-2.45	6.11	14.48
YBADJ	STCK15	22.42	29.67	0.00	41.49	45.36	47.86
YBADJ	STCK15	48.90	48.46	46.54	43.21	38.57	32.76
YBADJ	STCK15	26.66	19.08	10.93	2.45	-6.11	-14.48

YBADJ	STCK15	-22.42	-29.67	0.00	-41.49	-45.36	-47.86
YBADJ	STCK15	-48.90	-48.46	-46.54	-43.21	-38.57	-32.75
YBADJ	STCK16	35.68	40.70	44.48	46.91	47.91	47.46
YBADJ	STCK16	45.56	42.28	0.00	32.22	25.41	17.83
YBADJ	STCK16	9.71	1.29	-7.17	-15.41	-23.18	-30.24
YBADJ	STCK16	-35.68	-40.70	-44.48	-46.91	-47.91	-47.46
YBADJ	STCK16	-45.56	-42.28	0.00	-32.22	-25.41	-17.83
YBADJ	STCK16	-9.71	-1.29	7.17	15.41	23.18	30.25
YBADJ	STCK18	-24.12	-16.15	-7.69	1.01	9.68	18.05
YBADJ	STCK18	25.87	32.91	0.00	43.74	47.33	49.48
YBADJ	STCK18	50.13	49.26	46.88	43.09	37.98	31.36
YBADJ	STCK18	24.12	16.15	7.69	-1.01	-9.68	-18.05
YBADJ	STCK18	-25.87	-32.91	0.00	-43.74	-47.33	-49.48
YBADJ	STCK18	-50.13	-49.26	-46.88	-43.09	-37.98	-31.36
YBADJ	STCK19	39.31	44.08	47.50	49.49	49.97	48.93
YBADJ	STCK19	46.41	42.47	0.00	30.83	23.60	15.66
YBADJ	STCK19	7.23	-1.41	-10.01	-18.30	-26.04	-33.35
YBADJ	STCK19	-39.31	-44.08	-47.50	-49.49	-49.97	-48.93
YBADJ	STCK19	-46.41	-42.47	0.00	-30.83	-23.60	-15.66
YBADJ	STCK19	-7.23	1.41	10.01	18.30	26.04	33.35
YBADJ	STCK20	-40.51	-45.11	-48.34	-50.09	-50.33	-49.03
YBADJ	STCK20	-46.25	-42.06	0.00	-30.94	-23.35	-15.04
YBADJ	STCK20	-6.29	2.66	11.53	20.05	27.96	35.02
YBADJ	STCK20	40.51	45.11	48.34	50.09	50.33	49.03
YBADJ	STCK20	46.25	42.06	0.00	30.94	23.35	15.04
YBADJ	STCK20	6.29	-2.66	-11.53	-20.05	-27.96	-35.02
YBADJ	STCK21	30.61	22.61	13.91	4.80	-4.46	-13.59
YBADJ	STCK21	-22.30	-30.33	0.00	-44.34	-48.90	-51.97
YBADJ	STCK21	-53.45	-53.32	-51.57	-48.24	-43.46	-37.35
YBADJ	STCK21	-30.61	-22.61	-13.91	-4.80	4.46	13.59
YBADJ	STCK21	22.30	30.33	0.00	44.34	48.90	51.97
YBADJ	STCK21	53.45	53.32	51.57	48.24	43.46	37.35
YBADJ	STCK22	23.98	22.04	19.43	16.23	12.54	8.47
YBADJ	STCK22	4.14	-0.32	-4.90	-9.54	-13.47	-16.99
YBADJ	STCK22	-20.00	-22.39	-24.11	-25.09	-25.31	0.00
YBADJ	STCK22	-23.98	-22.04	-19.43	-16.23	-12.54	-8.47
YBADJ	STCK22	-4.14	0.32	4.91	9.54	13.47	16.99
YBADJ	STCK22	20.00	22.39	24.11	25.09	25.31	0.00
YBADJ	STCK23	-23.56	-22.69	-21.14	71.48	59.60	45.90
YBADJ	STCK23	30.81	14.79	-2.18	-19.03	-34.80	-49.52
YBADJ	STCK23	-62.73	-74.03	19.45	21.35	22.59	0.00
YBADJ	STCK23	23.56	22.69	21.14	-71.48	-59.60	-45.90
YBADJ	STCK23	-30.81	5.32	1.20	-2.83	34.80	49.52
YBADJ	STCK23	62.73	74.03	-19.45	-21.35	-22.59	0.00

YBADJ	STCK24	-46.37	-50.46	-53.01	-53.95	-53.25	-50.93
YBADJ	STCK24	-47.06	-41.77	-35.35	-27.93	-19.25	-9.98
YBADJ	STCK24	-0.40	9.18	18.49	27.23	35.15	0.00
YBADJ	STCK24	46.37	50.46	53.01	53.95	53.25	50.93
YBADJ	STCK24	47.06	41.77	35.35	27.93	19.25	9.98
YBADJ	STCK24	0.40	-9.18	-18.49	-27.23	-35.15	0.00
YBADJ	STCK25	-34.64	-26.50	-17.56	-8.08	1.65	11.32
YBADJ	STCK25	20.65	29.35	37.03	43.48	49.05	53.12
YBADJ	STCK25	55.58	56.35	55.41	52.78	48.55	0.00
YBADJ	STCK25	34.64	26.50	17.56	8.08	-1.65	-11.32
YBADJ	STCK25	-20.65	-29.35	-37.03	-43.48	-49.05	-53.12
YBADJ	STCK25	-55.58	-56.35	-55.41	-52.78	-48.55	0.00
YBADJ	STCK26	-20.76	-12.31	-3.48	5.46	14.22	22.56
YBADJ	STCK26	30.21	36.94	0.00	47.22	50.04	51.34
YBADJ	STCK26	51.08	49.26	45.95	41.25	35.29	28.26
YBADJ	STCK26	20.76	12.31	3.48	-5.46	-14.23	-22.56
YBADJ	STCK26	-30.21	-36.94	0.00	-47.22	-50.04	-51.34
YBADJ	STCK26	-51.08	-49.26	-45.95	-41.25	-35.29	-28.27
YBADJ	STCK27	33.68	39.81	44.74	48.31	50.41	50.98
YBADJ	STCK27	50.00	47.50	0.00	38.64	32.13	24.65
YBADJ	STCK27	16.42	7.70	-1.27	-10.19	-18.80	-26.84
YBADJ	STCK27	-33.68	-39.81	-44.74	-48.31	-50.41	-50.98
YBADJ	STCK27	-50.00	-47.50	0.00	-38.64	-32.13	-24.65
YBADJ	STCK27	-16.42	-7.70	1.27	10.19	18.80	26.83
YBADJ	STCK28	-22.76	-21.62	-19.82	77.81	66.08	52.34
YBADJ	STCK28	37.01	20.56	3.89	-13.35	-30.19	-46.11
YBADJ	STCK28	-60.64	-73.32	20.17	21.82	22.80	0.00
YBADJ	STCK28	22.76	21.62	19.82	-77.81	-66.08	-52.34
YBADJ	STCK28	-37.01	3.47	-0.34	-4.34	30.19	46.11
YBADJ	STCK28	60.64	73.32	-20.17	-21.82	-22.80	0.00
YBADJ	STCK29	-50.97	-55.13	-57.61	-58.35	-57.31	-54.53
YBADJ	STCK29	-50.09	-44.13	40.41	29.02	16.75	3.97
YBADJ	STCK29	-8.93	-21.56	-33.53	29.72	38.07	0.00
YBADJ	STCK29	50.97	55.13	57.61	58.34	57.31	54.53
YBADJ	STCK29	50.09	44.13	36.83	29.00	19.69	9.79
YBADJ	STCK29	-0.42	-10.61	-20.48	-29.72	-38.07	0.00
YBADJ	STCK30	-39.37	-32.48	-24.61	-15.99	-6.88	2.44
YBADJ	STCK30	11.68	20.57	28.83	35.62	41.94	46.98
YBADJ	STCK30	50.59	52.66	53.13	51.99	49.27	0.00
YBADJ	STCK30	39.37	32.48	24.61	15.99	6.88	-2.44
YBADJ	STCK30	-11.68	-20.57	-28.83	-35.62	-41.94	-46.98
YBADJ	STCK30	-50.59	-52.66	-53.13	-51.99	-49.27	0.00
YBADJ	STCK31	-25.56	-25.64	79.09	68.18	55.19	40.52

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   YBADJ    STCK31          24.62     7.98    -8.51   -24.89   -40.72   -55.31
   YBADJ    STCK31         -68.22   -79.06    17.59    20.51    22.80     0.00
   YBADJ    STCK31          25.56    25.64   -79.09   -68.18   -55.19   -40.52
   YBADJ    STCK31         -24.62    11.26     7.08     2.73    40.72    55.31
   YBADJ    STCK31          68.22    79.06   -17.59   -20.51   -22.80     0.00

   YBADJ    STCK32         -36.45   -42.76   -47.76   -51.31   -53.30   -53.68
   YBADJ    STCK32         -52.42   -49.57     0.00   -38.85   -31.90   -23.99
   YBADJ    STCK32         -15.35    -6.24     3.06    12.26    21.09    29.29
   YBADJ    STCK32          36.45    42.76    47.76    51.31    53.30    53.68
   YBADJ    STCK32          52.42    49.57     0.00    38.85    31.90    23.99
   YBADJ    STCK32          15.35     6.24    -3.06   -12.26   -21.09   -29.29

   YBADJ    STCK33          32.13    22.79    12.77     2.35    -8.13   -18.37
   YBADJ    STCK33         -28.05   -36.88     0.00   -50.31   -55.10   -58.22
   YBADJ    STCK33         -59.57   -59.11   -56.85   -52.86   -47.27   -40.24
   YBADJ    STCK33         -32.13   -22.79   -12.77    -2.35     8.13    18.37
   YBADJ    STCK33          28.05    36.88     0.00    50.31    55.10    58.22
   YBADJ    STCK33          59.57    59.11    56.85    52.86    47.27    40.24

   YBADJ    STCK34          -7.48   -12.25   -16.66    37.36    24.82    11.52
   YBADJ    STCK34          -2.13   -15.71     0.00   -28.48   -26.86   -24.41
   YBADJ    STCK34         -21.23   -17.40    34.98    23.21    10.74    -1.75
   YBADJ    STCK34         -14.49   -26.79   -38.28    20.56    23.83    26.38
   YBADJ    STCK34          28.13    29.02     0.00    28.48    26.86    24.41
   YBADJ    STCK34          21.23    17.40    13.04     8.29     3.28    -2.48

   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "6627b DHS 109 - 1 yr.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\DesertHotSpringsAirportADJU\KTRM_V9_ADJU\KTRM_v9.SFC
   PROFFILE "..\..\..\..\..\Dropbox\Kunzman\Projects\6627 DHS 109\HRA\KTRM_V9_ADJU\KTRM_v9.PFL"
   SURFDATA 3104 2012
   UAIRDATA 3190 2012
   PROFBASE -36.0 METERS
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ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD ALL "6627B DHS 109 - 1 YR.AD\PE00GALL.PLT" 31
   SUMMFILE "6627b DHS 109 - 1 yr.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of           36 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


    ********   WARNING MESSAGES   ********
 SO W320    4337        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    4338        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    4339        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    4340        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5953        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5954        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5955        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5956        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5957        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5958        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5959        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5960        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5961        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5962        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5963        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5964        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5965        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5966        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5967        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5968        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5969        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5970        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5971        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
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SO W320    5972        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5973        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5974        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5975        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5976        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5977        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5978        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5979        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5980        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5981        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
ME W340    9231       PRBASE: Possible Error in PROFBASE Input:  Value is < 0       PROFBASE
ME W186    9232       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187    9232       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

**********************************
*** SETUP Finishes Successfully ***
**********************************


*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 1 yr                          ***        05/23/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 1 yr                                ***        16:16:28
                                                                                                                PAGE   1
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                        ***     MODEL SETUP OPTIONS SUMMARY       ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

**Model Is Setup For Calculation of Average CONCentration Values.

  --  DEPOSITION LOGIC  --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
**Model Uses NO WET DEPLETION.  WETDPLT  =  F

**Model Uses URBAN Dispersion Algorithm for the SBL for  3880 Source(s),
  for Total of    1 Urban Area(s):
  Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
       1. Stack-tip Downwash.
       2. Model Accounts for ELEVated Terrain Effects.
       3. Use Calms Processing Routine.
       4. Use Missing Data Processing Routine.
       5. No Exponential Decay.
       6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:
       ADJ_U*   - Use ADJ_U* option for SBL in AERMET
       CCVR_Sub - Meteorological data includes CCVR substitutions
       TEMP_Sub - Meteorological data includes TEMP substitutions
```

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**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of:  DPM

**Model Calculates PERIOD Averages Only

**This Run Includes:   3880 Source(s);       1 Source Group(s); and     454 Receptor(s)

               with:     33 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:   3847 VOLUME source(s)
                and:      0 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with      0 line(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
         Model Outputs Tables of PERIOD Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   -36.00 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                             ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =     10.5 MB of RAM.

**Input Runstream File:          aermod.inp
**Output Print File:             aermod.out

**Detailed Error/Message File:   6627b DHS 109 - 1 yr.err
**File for Summary of Results:   6627b DHS 109 - 1 yr.sum

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 1 yr                          ***        05/23/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 1 yr                                ***        16:16:28
                                                                                                                PAGE   2
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** POINT SOURCE DATA ***
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SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR	EMIS RATE SCALAR VARY BY
STCK1	0	0.16500E-04	544038.8	3755457.5	288.1	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK2	0	0.16500E-04	543964.4	3755485.8	288.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK3	0	0.16500E-04	544154.1	3754819.6	276.3	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK4	0	0.16500E-04	544242.3	3754819.6	275.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK5	0	0.16500E-04	544098.1	3755457.0	287.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK6	0	0.16500E-04	544228.2	3755457.2	287.4	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK7	0	0.16500E-04	544288.7	3755456.9	287.0	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK8	0	0.16500E-04	543964.1	3755374.2	286.8	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK9	0	0.16500E-04	544038.3	3755339.9	285.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK10	0	0.16500E-04	544095.7	3755341.4	285.8	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK11	0	0.16500E-04	544222.8	3755337.4	285.2	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK12	0	0.16500E-04	544287.6	3755338.4	285.0	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK13	0	0.16500E-04	544384.0	3755372.0	284.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK14	0	0.16500E-04	544385.7	3755307.3	283.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK15	0	0.16500E-04	544039.1	3755242.6	283.6	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK16	0	0.16500E-04	544102.1	3755240.9	283.6	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK18	0	0.16500E-04	544221.3	3755240.9	283.5	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK19	0	0.16500E-04	544286.0	3755242.6	283.4	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK20	0	0.16500E-04	544163.4	3755195.7	282.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK21	0	0.16500E-04	544235.8	3755196.6	282.8	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK22	0	0.16500E-04	544091.9	3755163.4	282.4	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK23	0	0.16500E-04	544292.8	3755160.8	282.0	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK24	0	0.16500E-04	544383.3	3755192.5	282.2	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK25	0	0.16500E-04	544382.5	3755120.1	280.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK26	0	0.16500E-04	544167.2	3755002.5	279.5	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK27	0	0.16500E-04	544222.3	3755001.5	279.3	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK28	0	0.16500E-04	544294.4	3755041.5	279.8	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK29	0	0.16500E-04	544379.5	3755001.5	278.5	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK30	0	0.16500E-04	544379.7	3754935.8	277.2	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK31	0	0.16500E-04	544291.1	3754901.4	277.0	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK32	0	0.16500E-04	544165.6	3754937.7	278.3	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK33	0	0.16500E-04	544235.1	3754937.0	278.0	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK34	0	0.16500E-04	544317.6	3754820.8	275.4	3.66	366.00	51.90	0.10	YES	YES	NO	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY

L0050260	0	0.40630E-06	544360.9	3755555.2	288.1	0.00	1.70	0.76	YES
L0050261	0	0.40630E-06	544357.2	3755555.2	288.1	0.00	1.70	0.76	YES
L0050262	0	0.40630E-06	544353.6	3755555.2	288.1	0.00	1.70	0.76	YES
L0050263	0	0.40630E-06	544349.9	3755555.2	288.2	0.00	1.70	0.76	YES
L0050264	0	0.40630E-06	544346.2	3755555.1	288.2	0.00	1.70	0.76	YES
L0050265	0	0.40630E-06	544342.6	3755555.1	288.2	0.00	1.70	0.76	YES
L0050266	0	0.40630E-06	544338.9	3755555.1	288.2	0.00	1.70	0.76	YES
L0050267	0	0.40630E-06	544335.3	3755555.1	288.3	0.00	1.70	0.76	YES
L0050268	0	0.40630E-06	544331.6	3755555.0	288.3	0.00	1.70	0.76	YES
L0050269	0	0.40630E-06	544328.0	3755555.0	288.3	0.00	1.70	0.76	YES
L0050270	0	0.40630E-06	544324.3	3755555.0	288.3	0.00	1.70	0.76	YES
L0050271	0	0.40630E-06	544320.6	3755554.9	288.4	0.00	1.70	0.76	YES
L0050272	0	0.40630E-06	544317.0	3755554.9	288.4	0.00	1.70	0.76	YES
L0050273	0	0.40630E-06	544313.3	3755554.9	288.4	0.00	1.70	0.76	YES
L0050274	0	0.40630E-06	544309.7	3755554.9	288.4	0.00	1.70	0.76	YES
L0050275	0	0.40630E-06	544306.0	3755554.8	288.5	0.00	1.70	0.76	YES
L0050276	0	0.40630E-06	544302.4	3755554.8	288.5	0.00	1.70	0.76	YES
L0050277	0	0.40630E-06	544298.7	3755554.8	288.5	0.00	1.70	0.76	YES
L0050278	0	0.40630E-06	544295.0	3755554.8	288.6	0.00	1.70	0.76	YES
L0050279	0	0.40630E-06	544291.4	3755554.7	288.6	0.00	1.70	0.76	YES
L0050280	0	0.40630E-06	544287.7	3755554.7	288.6	0.00	1.70	0.76	YES
L0050281	0	0.40630E-06	544284.1	3755554.7	288.6	0.00	1.70	0.76	YES
L0050282	0	0.40630E-06	544280.4	3755554.7	288.6	0.00	1.70	0.76	YES
L0050283	0	0.40630E-06	544276.8	3755554.6	288.7	0.00	1.70	0.76	YES
L0050284	0	0.40630E-06	544273.1	3755554.6	288.7	0.00	1.70	0.76	YES
L0050285	0	0.40630E-06	544269.4	3755554.6	288.7	0.00	1.70	0.76	YES
L0050286	0	0.40630E-06	544265.8	3755554.6	288.7	0.00	1.70	0.76	YES
L0050287	0	0.40630E-06	544262.1	3755554.5	288.8	0.00	1.70	0.76	YES
L0050288	0	0.40630E-06	544258.5	3755554.5	288.8	0.00	1.70	0.76	YES
L0050289	0	0.40630E-06	544254.8	3755554.5	288.8	0.00	1.70	0.76	YES
L0050290	0	0.40630E-06	544251.1	3755554.4	288.8	0.00	1.70	0.76	YES
L0050291	0	0.40630E-06	544247.5	3755554.4	288.8	0.00	1.70	0.76	YES
L0050292	0	0.40630E-06	544243.8	3755554.4	288.9	0.00	1.70	0.76	YES
L0050293	0	0.40630E-06	544240.2	3755554.4	288.9	0.00	1.70	0.76	YES
L0050294	0	0.40630E-06	544236.5	3755554.3	288.9	0.00	1.70	0.76	YES
L0050295	0	0.40630E-06	544232.9	3755554.3	288.9	0.00	1.70	0.76	YES
L0050296	0	0.40630E-06	544229.2	3755554.3	288.9	0.00	1.70	0.76	YES
L0050297	0	0.40630E-06	544225.5	3755554.3	289.0	0.00	1.70	0.76	YES
L0050298	0	0.40630E-06	544221.9	3755554.2	289.0	0.00	1.70	0.76	YES
L0050299	0	0.40630E-06	544218.2	3755554.2	289.0	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER	EMISSION RATE	BASE	RELEASE	INIT.	INIT.	URBAN	EMISSION RATE

SOURCE ID	PART. CATS.	(GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE	SCALAR VARY BY
L0050300	0	0.40630E-06	544214.6	3755554.2	289.0	0.00	1.70	0.76	YES	
L0050301	0	0.40630E-06	544210.9	3755554.2	289.1	0.00	1.70	0.76	YES	
L0050302	0	0.40630E-06	544207.3	3755554.1	289.1	0.00	1.70	0.76	YES	
L0050303	0	0.40630E-06	544203.6	3755554.1	289.1	0.00	1.70	0.76	YES	
L0050304	0	0.40630E-06	544199.9	3755554.1	289.1	0.00	1.70	0.76	YES	
L0050305	0	0.40630E-06	544196.3	3755554.1	289.1	0.00	1.70	0.76	YES	
L0050306	0	0.40630E-06	544192.6	3755554.0	289.2	0.00	1.70	0.76	YES	
L0050307	0	0.40630E-06	544189.0	3755554.0	289.2	0.00	1.70	0.76	YES	
L0050308	0	0.40630E-06	544185.3	3755554.0	289.2	0.00	1.70	0.76	YES	
L0050309	0	0.40630E-06	544181.7	3755553.9	289.2	0.00	1.70	0.76	YES	
L0050310	0	0.40630E-06	544178.0	3755553.9	289.2	0.00	1.70	0.76	YES	
L0050311	0	0.40630E-06	544174.3	3755553.9	289.3	0.00	1.70	0.76	YES	
L0050312	0	0.40630E-06	544170.7	3755553.9	289.3	0.00	1.70	0.76	YES	
L0050313	0	0.40630E-06	544167.0	3755553.8	289.3	0.00	1.70	0.76	YES	
L0050314	0	0.40630E-06	544163.4	3755553.8	289.3	0.00	1.70	0.76	YES	
L0050315	0	0.40630E-06	544159.7	3755553.8	289.4	0.00	1.70	0.76	YES	
L0050316	0	0.40630E-06	544156.1	3755553.8	289.4	0.00	1.70	0.76	YES	
L0050317	0	0.40630E-06	544152.4	3755553.7	289.4	0.00	1.70	0.76	YES	
L0050318	0	0.40630E-06	544148.7	3755553.7	289.4	0.00	1.70	0.76	YES	
L0050319	0	0.40630E-06	544145.1	3755553.7	289.4	0.00	1.70	0.76	YES	
L0050320	0	0.40630E-06	544141.4	3755553.7	289.4	0.00	1.70	0.76	YES	
L0050321	0	0.40630E-06	544137.8	3755553.6	289.5	0.00	1.70	0.76	YES	
L0050322	0	0.40630E-06	544134.1	3755553.6	289.5	0.00	1.70	0.76	YES	
L0050323	0	0.40630E-06	544130.5	3755553.6	289.5	0.00	1.70	0.76	YES	
L0050324	0	0.40630E-06	544126.8	3755553.6	289.5	0.00	1.70	0.76	YES	
L0050325	0	0.40630E-06	544123.1	3755553.5	289.5	0.00	1.70	0.76	YES	
L0050326	0	0.40630E-06	544119.5	3755553.5	289.5	0.00	1.70	0.76	YES	
L0050327	0	0.40630E-06	544115.8	3755553.5	289.6	0.00	1.70	0.76	YES	
L0050328	0	0.40630E-06	544112.2	3755553.4	289.6	0.00	1.70	0.76	YES	
L0050329	0	0.40630E-06	544108.5	3755553.4	289.6	0.00	1.70	0.76	YES	
L0050330	0	0.40630E-06	544104.8	3755553.4	289.6	0.00	1.70	0.76	YES	
L0050331	0	0.40630E-06	544101.2	3755553.4	289.6	0.00	1.70	0.76	YES	
L0050332	0	0.40630E-06	544097.5	3755553.3	289.6	0.00	1.70	0.76	YES	
L0050333	0	0.40630E-06	544093.9	3755553.3	289.7	0.00	1.70	0.76	YES	
L0050334	0	0.40630E-06	544090.2	3755553.3	289.7	0.00	1.70	0.76	YES	
L0050335	0	0.40630E-06	544086.6	3755553.3	289.7	0.00	1.70	0.76	YES	
L0050336	0	0.40630E-06	544082.9	3755553.2	289.7	0.00	1.70	0.76	YES	
L0050337	0	0.40630E-06	544079.2	3755553.2	289.7	0.00	1.70	0.76	YES	
L0050338	0	0.40630E-06	544075.6	3755553.2	289.8	0.00	1.70	0.76	YES	
L0050339	0	0.40630E-06	544071.9	3755553.2	289.8	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0050340	0	0.40630E-06	544068.3	3755553.1	289.8	0.00	1.70	0.76	YES	
L0050341	0	0.40630E-06	544064.6	3755553.1	289.8	0.00	1.70	0.76	YES	
L0050342	0	0.40630E-06	544061.0	3755553.1	289.8	0.00	1.70	0.76	YES	
L0050343	0	0.40630E-06	544057.3	3755553.1	289.9	0.00	1.70	0.76	YES	
L0050344	0	0.40630E-06	544053.6	3755553.0	289.9	0.00	1.70	0.76	YES	
L0050345	0	0.40630E-06	544050.0	3755553.0	289.9	0.00	1.70	0.76	YES	
L0050346	0	0.40630E-06	544046.3	3755553.0	289.9	0.00	1.70	0.76	YES	
L0050347	0	0.40630E-06	544042.7	3755552.9	289.9	0.00	1.70	0.76	YES	
L0050348	0	0.40630E-06	544039.0	3755552.9	289.9	0.00	1.70	0.76	YES	
L0050349	0	0.40630E-06	544035.4	3755552.9	289.9	0.00	1.70	0.76	YES	
L0050350	0	0.40630E-06	544031.7	3755552.9	290.0	0.00	1.70	0.76	YES	
L0050351	0	0.40630E-06	544028.0	3755552.8	290.0	0.00	1.70	0.76	YES	
L0050352	0	0.40630E-06	544024.4	3755552.8	290.0	0.00	1.70	0.76	YES	
L0050353	0	0.40630E-06	544020.7	3755552.8	290.1	0.00	1.70	0.76	YES	
L0050354	0	0.40630E-06	544017.1	3755552.8	290.1	0.00	1.70	0.76	YES	
L0050355	0	0.40630E-06	544013.4	3755552.7	290.1	0.00	1.70	0.76	YES	
L0050356	0	0.40630E-06	544009.8	3755552.7	290.1	0.00	1.70	0.76	YES	
L0050357	0	0.40630E-06	544006.1	3755552.7	290.2	0.00	1.70	0.76	YES	
L0050358	0	0.40630E-06	544002.4	3755552.7	290.2	0.00	1.70	0.76	YES	
L0050359	0	0.40630E-06	543998.8	3755552.6	290.2	0.00	1.70	0.76	YES	
L0050360	0	0.40630E-06	543995.1	3755552.6	290.2	0.00	1.70	0.76	YES	
L0050361	0	0.40630E-06	543991.5	3755552.6	290.2	0.00	1.70	0.76	YES	
L0050362	0	0.40630E-06	543987.8	3755552.6	290.3	0.00	1.70	0.76	YES	
L0050363	0	0.40630E-06	543984.2	3755552.5	290.3	0.00	1.70	0.76	YES	
L0050364	0	0.40630E-06	543980.5	3755552.5	290.3	0.00	1.70	0.76	YES	
L0050365	0	0.40630E-06	543976.8	3755552.5	290.3	0.00	1.70	0.76	YES	
L0050366	0	0.40630E-06	543973.2	3755552.4	290.3	0.00	1.70	0.76	YES	
L0050367	0	0.40630E-06	543969.5	3755552.4	290.3	0.00	1.70	0.76	YES	
L0050368	0	0.40630E-06	543965.9	3755552.4	290.3	0.00	1.70	0.76	YES	
L0050369	0	0.40630E-06	543962.2	3755552.4	290.3	0.00	1.70	0.76	YES	
L0050370	0	0.40630E-06	543958.5	3755552.3	290.4	0.00	1.70	0.76	YES	
L0050371	0	0.40630E-06	543954.9	3755552.3	290.4	0.00	1.70	0.76	YES	
L0050372	0	0.40630E-06	543951.2	3755552.3	290.4	0.00	1.70	0.76	YES	
L0050373	0	0.40630E-06	543947.6	3755552.3	290.5	0.00	1.70	0.76	YES	
L0050374	0	0.40630E-06	543943.9	3755552.2	290.5	0.00	1.70	0.76	YES	
L0050375	0	0.40630E-06	543940.3	3755552.2	290.5	0.00	1.70	0.76	YES	
L0050376	0	0.40630E-06	543936.6	3755552.2	290.6	0.00	1.70	0.76	YES	
L0050377	0	0.40630E-06	543932.9	3755552.2	290.6	0.00	1.70	0.76	YES	
L0050378	0	0.40630E-06	543929.3	3755552.3	290.6	0.00	1.70	0.76	YES	
L0050379	0	0.40630E-06	543925.6	3755552.4	290.6	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0050380	0	0.40630E-06	543922.0	3755552.6	290.7	0.00	1.70	0.76	YES	
L0050381	0	0.40630E-06	543918.3	3755552.8	290.7	0.00	1.70	0.76	YES	
L0050382	0	0.40630E-06	543914.7	3755553.0	290.7	0.00	1.70	0.76	YES	
L0050383	0	0.40630E-06	543911.0	3755553.2	290.7	0.00	1.70	0.76	YES	
L0050384	0	0.40630E-06	543907.4	3755553.4	290.8	0.00	1.70	0.76	YES	
L0050385	0	0.40630E-06	543903.7	3755553.6	290.8	0.00	1.70	0.76	YES	
L0050386	0	0.40630E-06	543900.1	3755553.7	290.8	0.00	1.70	0.76	YES	
L0050387	0	0.40630E-06	543896.4	3755553.9	290.9	0.00	1.70	0.76	YES	
L0050388	0	0.40630E-06	543892.8	3755554.2	290.9	0.00	1.70	0.76	YES	
L0050389	0	0.40630E-06	543889.4	3755555.5	290.9	0.00	1.70	0.76	YES	
L0050390	0	0.40630E-06	543886.0	3755556.9	291.0	0.00	1.70	0.76	YES	
L0050391	0	0.40630E-06	543882.6	3755558.3	291.0	0.00	1.70	0.76	YES	
L0050392	0	0.40630E-06	543879.2	3755559.7	291.1	0.00	1.70	0.76	YES	
L0050393	0	0.40630E-06	543875.8	3755561.0	291.2	0.00	1.70	0.76	YES	
L0050394	0	0.40630E-06	543872.4	3755562.4	291.2	0.00	1.70	0.76	YES	
L0050395	0	0.40630E-06	543869.1	3755563.8	291.3	0.00	1.70	0.76	YES	
L0050396	0	0.40630E-06	543865.7	3755565.2	291.3	0.00	1.70	0.76	YES	
L0050397	0	0.40630E-06	543862.3	3755566.6	291.4	0.00	1.70	0.76	YES	
L0050398	0	0.40630E-06	543859.4	3755568.8	291.5	0.00	1.70	0.76	YES	
L0050399	0	0.40630E-06	543856.4	3755571.0	291.5	0.00	1.70	0.76	YES	
L0050400	0	0.40630E-06	543853.5	3755573.2	291.6	0.00	1.70	0.76	YES	
L0050401	0	0.40630E-06	543850.6	3755575.4	291.7	0.00	1.70	0.76	YES	
L0050402	0	0.40630E-06	543847.7	3755577.6	291.8	0.00	1.70	0.76	YES	
L0050403	0	0.40630E-06	543844.7	3755579.7	291.8	0.00	1.70	0.76	YES	
L0050404	0	0.40630E-06	543841.8	3755581.9	291.9	0.00	1.70	0.76	YES	
L0050405	0	0.40630E-06	543838.9	3755584.1	292.0	0.00	1.70	0.76	YES	
L0050406	0	0.40630E-06	543835.9	3755586.3	292.1	0.00	1.70	0.76	YES	
L0050407	0	0.40630E-06	543833.0	3755588.5	292.1	0.00	1.70	0.76	YES	
L0050408	0	0.40630E-06	543830.1	3755590.7	292.2	0.00	1.70	0.76	YES	
L0050409	0	0.40630E-06	543827.2	3755592.9	292.2	0.00	1.70	0.76	YES	
L0050410	0	0.40630E-06	543824.2	3755595.1	292.3	0.00	1.70	0.76	YES	
L0050411	0	0.40630E-06	543821.3	3755597.3	292.4	0.00	1.70	0.76	YES	
L0050412	0	0.40630E-06	543818.4	3755599.5	292.4	0.00	1.70	0.76	YES	
L0050413	0	0.40630E-06	543815.4	3755601.5	292.5	0.00	1.70	0.76	YES	
L0050414	0	0.40630E-06	543812.1	3755603.2	292.5	0.00	1.70	0.76	YES	
L0050415	0	0.40630E-06	543808.8	3755604.8	292.6	0.00	1.70	0.76	YES	
L0050416	0	0.40630E-06	543805.6	3755606.4	292.7	0.00	1.70	0.76	YES	
L0050417	0	0.40630E-06	543802.3	3755608.1	292.7	0.00	1.70	0.76	YES	
L0050418	0	0.40630E-06	543799.0	3755609.7	292.8	0.00	1.70	0.76	YES	
L0050419	0	0.40630E-06	543795.7	3755611.3	292.8	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0050420	0	0.40630E-06	543792.5	3755613.0	292.9	0.00	1.70	0.76	YES	
L0050421	0	0.40630E-06	543789.2	3755614.6	292.9	0.00	1.70	0.76	YES	
L0050422	0	0.40630E-06	543785.9	3755616.2	293.0	0.00	1.70	0.76	YES	
L0050423	0	0.40630E-06	543782.6	3755617.9	293.0	0.00	1.70	0.76	YES	
L0050424	0	0.40630E-06	543779.4	3755619.5	293.1	0.00	1.70	0.76	YES	
L0050425	0	0.40630E-06	543776.0	3755620.8	293.1	0.00	1.70	0.76	YES	
L0050426	0	0.40630E-06	543772.5	3755621.9	293.2	0.00	1.70	0.76	YES	
L0050427	0	0.40630E-06	543769.0	3755622.9	293.2	0.00	1.70	0.76	YES	
L0050428	0	0.40630E-06	543765.4	3755623.9	293.3	0.00	1.70	0.76	YES	
L0050429	0	0.40630E-06	543761.9	3755624.9	293.4	0.00	1.70	0.76	YES	
L0050430	0	0.40630E-06	543758.4	3755625.9	293.4	0.00	1.70	0.76	YES	
L0050431	0	0.40630E-06	543754.9	3755627.0	293.5	0.00	1.70	0.76	YES	
L0050432	0	0.40630E-06	543751.4	3755628.0	293.5	0.00	1.70	0.76	YES	
L0050433	0	0.40630E-06	543747.9	3755629.0	293.6	0.00	1.70	0.76	YES	
L0050434	0	0.40630E-06	543744.4	3755630.0	293.6	0.00	1.70	0.76	YES	
L0050435	0	0.40630E-06	543740.8	3755630.9	293.6	0.00	1.70	0.76	YES	
L0050436	0	0.40630E-06	543737.2	3755630.9	293.7	0.00	1.70	0.76	YES	
L0050437	0	0.40630E-06	543733.5	3755630.9	293.7	0.00	1.70	0.76	YES	
L0050438	0	0.40630E-06	543729.9	3755630.9	293.7	0.00	1.70	0.76	YES	
L0050439	0	0.40630E-06	543726.2	3755630.9	293.7	0.00	1.70	0.76	YES	
L0050440	0	0.40630E-06	543722.5	3755631.0	293.8	0.00	1.70	0.76	YES	
L0050441	0	0.40630E-06	543718.9	3755631.0	293.8	0.00	1.70	0.76	YES	
L0050442	0	0.40630E-06	543715.2	3755631.0	293.8	0.00	1.70	0.76	YES	
L0050443	0	0.40630E-06	543711.6	3755631.0	293.8	0.00	1.70	0.76	YES	
L0050444	0	0.40630E-06	543707.9	3755631.0	293.8	0.00	1.70	0.76	YES	
L0050445	0	0.40630E-06	543704.3	3755631.1	293.9	0.00	1.70	0.76	YES	
L0050446	0	0.40630E-06	543700.6	3755631.1	293.9	0.00	1.70	0.76	YES	
L0050447	0	0.40630E-06	543696.9	3755631.1	293.9	0.00	1.70	0.76	YES	
L0050448	0	0.40630E-06	543693.3	3755631.1	293.9	0.00	1.70	0.76	YES	
L0050449	0	0.40630E-06	543689.6	3755631.1	294.0	0.00	1.70	0.76	YES	
L0050450	0	0.49090E-06	544361.2	3755546.1	288.0	0.00	1.70	0.76	YES	
L0050451	0	0.49090E-06	544361.2	3755542.5	287.9	0.00	1.70	0.76	YES	
L0050452	0	0.49090E-06	544361.2	3755538.8	287.9	0.00	1.70	0.76	YES	
L0050453	0	0.49090E-06	544361.2	3755535.2	287.8	0.00	1.70	0.76	YES	
L0050454	0	0.49090E-06	544361.3	3755531.5	287.8	0.00	1.70	0.76	YES	
L0050455	0	0.49090E-06	544361.3	3755527.9	287.8	0.00	1.70	0.76	YES	
L0050456	0	0.49090E-06	544361.3	3755524.2	287.7	0.00	1.70	0.76	YES	
L0050457	0	0.49090E-06	544361.3	3755520.5	287.6	0.00	1.70	0.76	YES	

L0050458	0	0.49090E-06	544361.4	3755516.9	287.6	0.00	1.70	0.76	YES	
L0050459	0	0.49090E-06	544361.4	3755513.2	287.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0050460	0	0.49090E-06	544361.4	3755509.6	287.5	0.00	1.70	0.76	YES	
L0050461	0	0.49090E-06	544361.4	3755505.9	287.4	0.00	1.70	0.76	YES	
L0050462	0	0.49090E-06	544361.5	3755502.2	287.4	0.00	1.70	0.76	YES	
L0050463	0	0.49090E-06	544361.5	3755498.6	287.3	0.00	1.70	0.76	YES	
L0050464	0	0.49090E-06	544361.5	3755494.9	287.2	0.00	1.70	0.76	YES	
L0050465	0	0.49090E-06	544361.5	3755491.3	287.2	0.00	1.70	0.76	YES	
L0050466	0	0.49090E-06	544361.6	3755487.6	287.1	0.00	1.70	0.76	YES	
L0050467	0	0.49090E-06	544361.6	3755484.0	287.1	0.00	1.70	0.76	YES	
L0050468	0	0.49090E-06	544361.6	3755480.3	287.0	0.00	1.70	0.76	YES	
L0050469	0	0.49090E-06	544361.6	3755476.6	286.9	0.00	1.70	0.76	YES	
L0050470	0	0.49090E-06	544361.7	3755473.0	286.9	0.00	1.70	0.76	YES	
L0050471	0	0.49090E-06	544361.7	3755469.3	286.8	0.00	1.70	0.76	YES	
L0050472	0	0.49090E-06	544361.7	3755465.7	286.8	0.00	1.70	0.76	YES	
L0050473	0	0.49090E-06	544361.7	3755462.0	286.7	0.00	1.70	0.76	YES	
L0050474	0	0.49090E-06	544361.8	3755458.4	286.6	0.00	1.70	0.76	YES	
L0050475	0	0.49090E-06	544361.8	3755454.7	286.6	0.00	1.70	0.76	YES	
L0050476	0	0.49090E-06	544361.8	3755451.0	286.5	0.00	1.70	0.76	YES	
L0050477	0	0.49090E-06	544361.8	3755447.4	286.4	0.00	1.70	0.76	YES	
L0050478	0	0.49090E-06	544361.9	3755443.7	286.4	0.00	1.70	0.76	YES	
L0050479	0	0.49090E-06	544361.9	3755440.1	286.3	0.00	1.70	0.76	YES	
L0050480	0	0.49090E-06	544361.9	3755436.4	286.2	0.00	1.70	0.76	YES	
L0050481	0	0.49090E-06	544361.9	3755432.8	286.2	0.00	1.70	0.76	YES	
L0050482	0	0.49090E-06	544362.0	3755429.1	286.1	0.00	1.70	0.76	YES	
L0050483	0	0.49090E-06	544362.0	3755425.4	286.1	0.00	1.70	0.76	YES	
L0050484	0	0.49090E-06	544362.0	3755421.8	286.0	0.00	1.70	0.76	YES	
L0050485	0	0.49090E-06	544362.0	3755418.1	285.9	0.00	1.70	0.76	YES	
L0050486	0	0.49090E-06	544362.1	3755414.5	285.9	0.00	1.70	0.76	YES	
L0050487	0	0.49090E-06	544362.1	3755410.8	285.8	0.00	1.70	0.76	YES	
L0050488	0	0.49090E-06	544362.1	3755407.2	285.7	0.00	1.70	0.76	YES	
L0050489	0	0.49090E-06	544362.1	3755403.5	285.6	0.00	1.70	0.76	YES	
L0050490	0	0.49090E-06	544362.2	3755399.8	285.6	0.00	1.70	0.76	YES	
L0050491	0	0.49090E-06	544362.2	3755396.2	285.5	0.00	1.70	0.76	YES	
L0050492	0	0.49090E-06	544362.2	3755392.5	285.4	0.00	1.70	0.76	YES	
L0050493	0	0.49090E-06	544362.2	3755388.9	285.4	0.00	1.70	0.76	YES	
L0050494	0	0.49090E-06	544362.3	3755385.2	285.3	0.00	1.70	0.76	YES	

L0050495	0	0.49090E-06	544362.3	3755381.6	285.2	0.00	1.70	0.76	YES	
L0050496	0	0.49090E-06	544362.3	3755377.9	285.2	0.00	1.70	0.76	YES	
L0050497	0	0.49090E-06	544362.3	3755374.2	285.1	0.00	1.70	0.76	YES	
L0050498	0	0.49090E-06	544362.4	3755370.6	285.0	0.00	1.70	0.76	YES	
L0050499	0	0.49090E-06	544362.4	3755366.9	285.0	0.00	1.70	0.76	YES	

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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0050500	0	0.49090E-06	544362.4	3755363.3	284.9	0.00	1.70	0.76	YES	
L0050501	0	0.49090E-06	544362.4	3755359.6	284.9	0.00	1.70	0.76	YES	
L0050502	0	0.49090E-06	544362.5	3755355.9	284.8	0.00	1.70	0.76	YES	
L0050503	0	0.49090E-06	544362.5	3755352.3	284.8	0.00	1.70	0.76	YES	
L0050504	0	0.49090E-06	544362.5	3755348.6	284.7	0.00	1.70	0.76	YES	
L0050505	0	0.49090E-06	544362.5	3755345.0	284.6	0.00	1.70	0.76	YES	
L0050506	0	0.49090E-06	544362.6	3755341.3	284.6	0.00	1.70	0.76	YES	
L0050507	0	0.49090E-06	544362.6	3755337.7	284.5	0.00	1.70	0.76	YES	
L0050508	0	0.49090E-06	544362.6	3755334.0	284.4	0.00	1.70	0.76	YES	
L0050509	0	0.49090E-06	544362.6	3755330.3	284.4	0.00	1.70	0.76	YES	
L0050510	0	0.49090E-06	544362.7	3755326.7	284.3	0.00	1.70	0.76	YES	
L0050511	0	0.49090E-06	544362.7	3755323.0	284.3	0.00	1.70	0.76	YES	
L0050512	0	0.49090E-06	544362.7	3755319.4	284.2	0.00	1.70	0.76	YES	
L0050513	0	0.49090E-06	544362.7	3755315.7	284.1	0.00	1.70	0.76	YES	
L0050514	0	0.49090E-06	544362.8	3755312.1	284.1	0.00	1.70	0.76	YES	
L0050515	0	0.49090E-06	544362.8	3755308.4	284.0	0.00	1.70	0.76	YES	
L0050516	0	0.49090E-06	544362.8	3755304.7	284.0	0.00	1.70	0.76	YES	
L0050517	0	0.49090E-06	544362.8	3755301.1	283.9	0.00	1.70	0.76	YES	
L0050518	0	0.49090E-06	544362.9	3755297.4	283.9	0.00	1.70	0.76	YES	
L0050519	0	0.49090E-06	544362.9	3755293.8	283.8	0.00	1.70	0.76	YES	
L0050520	0	0.49090E-06	544362.9	3755290.1	283.8	0.00	1.70	0.76	YES	
L0050521	0	0.49090E-06	544362.9	3755286.5	283.7	0.00	1.70	0.76	YES	
L0050522	0	0.49090E-06	544363.0	3755282.8	283.7	0.00	1.70	0.76	YES	
L0050523	0	0.49090E-06	544363.0	3755279.1	283.6	0.00	1.70	0.76	YES	
L0050524	0	0.49090E-06	544363.0	3755275.5	283.5	0.00	1.70	0.76	YES	
L0050525	0	0.49090E-06	544363.0	3755271.8	283.5	0.00	1.70	0.76	YES	
L0050526	0	0.49090E-06	544363.1	3755268.2	283.4	0.00	1.70	0.76	YES	
L0050527	0	0.49090E-06	544363.1	3755264.5	283.4	0.00	1.70	0.76	YES	
L0050528	0	0.49090E-06	544363.1	3755260.9	283.3	0.00	1.70	0.76	YES	
L0050529	0	0.49090E-06	544363.1	3755257.2	283.2	0.00	1.70	0.76	YES	
L0050530	0	0.49090E-06	544363.1	3755253.5	283.2	0.00	1.70	0.76	YES	
L0050531	0	0.49090E-06	544363.2	3755249.9	283.1	0.00	1.70	0.76	YES	

L0050532	0	0.49090E-06	544363.2	3755246.2	283.1	0.00	1.70	0.76	YES	
L0050533	0	0.49090E-06	544363.2	3755242.6	283.0	0.00	1.70	0.76	YES	
L0050534	0	0.49090E-06	544363.2	3755238.9	282.9	0.00	1.70	0.76	YES	
L0050535	0	0.49090E-06	544363.3	3755235.3	282.9	0.00	1.70	0.76	YES	
L0050536	0	0.49090E-06	544363.3	3755231.6	282.8	0.00	1.70	0.76	YES	
L0050537	0	0.49090E-06	544363.3	3755227.9	282.8	0.00	1.70	0.76	YES	
L0050538	0	0.49090E-06	544363.3	3755224.3	282.7	0.00	1.70	0.76	YES	
L0050539	0	0.49090E-06	544363.4	3755220.6	282.7	0.00	1.70	0.76	YES	

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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0050540	0	0.49090E-06	544363.4	3755217.0	282.6	0.00	1.70	0.76	YES	
L0050541	0	0.49090E-06	544363.4	3755213.3	282.5	0.00	1.70	0.76	YES	
L0050542	0	0.49090E-06	544363.4	3755209.6	282.5	0.00	1.70	0.76	YES	
L0050543	0	0.49090E-06	544363.5	3755206.0	282.4	0.00	1.70	0.76	YES	
L0050544	0	0.49090E-06	544363.5	3755202.3	282.4	0.00	1.70	0.76	YES	
L0050545	0	0.49090E-06	544363.5	3755198.7	282.3	0.00	1.70	0.76	YES	
L0050546	0	0.49090E-06	544363.5	3755195.0	282.3	0.00	1.70	0.76	YES	
L0050547	0	0.49090E-06	544363.6	3755191.4	282.2	0.00	1.70	0.76	YES	
L0050548	0	0.49090E-06	544363.6	3755187.7	282.2	0.00	1.70	0.76	YES	
L0050549	0	0.49090E-06	544363.6	3755184.0	282.1	0.00	1.70	0.76	YES	
L0050550	0	0.49090E-06	544363.6	3755180.4	282.0	0.00	1.70	0.76	YES	
L0050551	0	0.49090E-06	544363.7	3755176.7	282.0	0.00	1.70	0.76	YES	
L0050552	0	0.49090E-06	544363.7	3755173.1	281.9	0.00	1.70	0.76	YES	
L0050553	0	0.49090E-06	544363.7	3755169.4	281.9	0.00	1.70	0.76	YES	
L0050554	0	0.49090E-06	544363.7	3755165.8	281.8	0.00	1.70	0.76	YES	
L0050555	0	0.49090E-06	544363.8	3755162.1	281.7	0.00	1.70	0.76	YES	
L0050556	0	0.49090E-06	544363.8	3755158.4	281.7	0.00	1.70	0.76	YES	
L0050557	0	0.49090E-06	544363.8	3755154.8	281.6	0.00	1.70	0.76	YES	
L0050558	0	0.49090E-06	544363.8	3755151.1	281.6	0.00	1.70	0.76	YES	
L0050559	0	0.49090E-06	544363.9	3755147.5	281.5	0.00	1.70	0.76	YES	
L0050560	0	0.49090E-06	544363.9	3755143.8	281.4	0.00	1.70	0.76	YES	
L0050561	0	0.49090E-06	544363.9	3755140.2	281.4	0.00	1.70	0.76	YES	
L0050562	0	0.49090E-06	544363.9	3755136.5	281.3	0.00	1.70	0.76	YES	
L0050563	0	0.49090E-06	544364.0	3755132.8	281.3	0.00	1.70	0.76	YES	
L0050564	0	0.49090E-06	544364.0	3755129.2	281.2	0.00	1.70	0.76	YES	
L0050565	0	0.49090E-06	544364.0	3755125.5	281.1	0.00	1.70	0.76	YES	
L0050566	0	0.49090E-06	544364.0	3755121.9	281.1	0.00	1.70	0.76	YES	
L0050567	0	0.49090E-06	544364.1	3755118.2	281.0	0.00	1.70	0.76	YES	
L0050568	0	0.49090E-06	544364.1	3755114.6	280.9	0.00	1.70	0.76	YES	

L0050569	0	0.49090E-06	544364.1	3755110.9	280.8	0.00	1.70	0.76	YES
L0050570	0	0.49090E-06	544364.1	3755107.2	280.8	0.00	1.70	0.76	YES
L0050571	0	0.49090E-06	544364.2	3755103.6	280.7	0.00	1.70	0.76	YES
L0050572	0	0.49090E-06	544364.2	3755099.9	280.6	0.00	1.70	0.76	YES
L0050573	0	0.49090E-06	544364.2	3755096.3	280.5	0.00	1.70	0.76	YES
L0050574	0	0.49090E-06	544364.2	3755092.6	280.5	0.00	1.70	0.76	YES
L0050575	0	0.49090E-06	544364.3	3755089.0	280.4	0.00	1.70	0.76	YES
L0050576	0	0.49090E-06	544364.3	3755085.3	280.3	0.00	1.70	0.76	YES
L0050577	0	0.49090E-06	544364.3	3755081.6	280.2	0.00	1.70	0.76	YES
L0050578	0	0.49090E-06	544364.3	3755078.0	280.2	0.00	1.70	0.76	YES
L0050579	0	0.49090E-06	544364.4	3755074.3	280.1	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0050580	0	0.49090E-06	544364.4	3755070.7	280.0	0.00	1.70	0.76	YES	
L0050581	0	0.49090E-06	544364.4	3755067.0	279.9	0.00	1.70	0.76	YES	
L0050582	0	0.49090E-06	544364.4	3755063.3	279.9	0.00	1.70	0.76	YES	
L0050583	0	0.49090E-06	544364.5	3755059.7	279.8	0.00	1.70	0.76	YES	
L0050584	0	0.49090E-06	544364.5	3755056.0	279.7	0.00	1.70	0.76	YES	
L0050585	0	0.49090E-06	544364.5	3755052.4	279.6	0.00	1.70	0.76	YES	
L0050586	0	0.49090E-06	544364.5	3755048.7	279.6	0.00	1.70	0.76	YES	
L0050587	0	0.49090E-06	544364.6	3755045.1	279.5	0.00	1.70	0.76	YES	
L0050588	0	0.49090E-06	544364.6	3755041.4	279.4	0.00	1.70	0.76	YES	
L0050589	0	0.49090E-06	544364.6	3755037.7	279.3	0.00	1.70	0.76	YES	
L0050590	0	0.49090E-06	544364.6	3755034.1	279.3	0.00	1.70	0.76	YES	
L0050591	0	0.49090E-06	544364.7	3755030.4	279.2	0.00	1.70	0.76	YES	
L0050592	0	0.49090E-06	544364.7	3755026.8	279.1	0.00	1.70	0.76	YES	
L0050593	0	0.49090E-06	544364.7	3755023.1	279.1	0.00	1.70	0.76	YES	
L0050594	0	0.49090E-06	544364.7	3755019.5	279.0	0.00	1.70	0.76	YES	
L0050595	0	0.49090E-06	544364.8	3755015.8	278.9	0.00	1.70	0.76	YES	
L0050596	0	0.49090E-06	544364.8	3755012.1	278.8	0.00	1.70	0.76	YES	
L0050597	0	0.49090E-06	544364.8	3755008.5	278.8	0.00	1.70	0.76	YES	
L0050598	0	0.49090E-06	544364.8	3755004.8	278.7	0.00	1.70	0.76	YES	
L0050599	0	0.49090E-06	544364.9	3755001.2	278.6	0.00	1.70	0.76	YES	
L0050600	0	0.49090E-06	544364.9	3754997.5	278.5	0.00	1.70	0.76	YES	
L0050601	0	0.49090E-06	544364.9	3754993.9	278.5	0.00	1.70	0.76	YES	
L0050602	0	0.49090E-06	544364.9	3754990.2	278.4	0.00	1.70	0.76	YES	
L0050603	0	0.49090E-06	544365.0	3754986.5	278.3	0.00	1.70	0.76	YES	
L0050604	0	0.49090E-06	544365.0	3754982.9	278.2	0.00	1.70	0.76	YES	
L0050605	0	0.49090E-06	544365.0	3754979.2	278.2	0.00	1.70	0.76	YES	

L0050606	0	0.49090E-06	544365.0	3754975.6	278.1	0.00	1.70	0.76	YES	
L0050607	0	0.49090E-06	544365.1	3754971.9	278.0	0.00	1.70	0.76	YES	
L0050608	0	0.49090E-06	544365.1	3754968.3	277.9	0.00	1.70	0.76	YES	
L0050609	0	0.49090E-06	544365.1	3754964.6	277.9	0.00	1.70	0.76	YES	
L0050610	0	0.49090E-06	544365.1	3754960.9	277.8	0.00	1.70	0.76	YES	
L0050611	0	0.49090E-06	544365.2	3754957.3	277.7	0.00	1.70	0.76	YES	
L0050612	0	0.49090E-06	544365.2	3754953.6	277.7	0.00	1.70	0.76	YES	
L0050613	0	0.49090E-06	544365.2	3754950.0	277.6	0.00	1.70	0.76	YES	
L0050614	0	0.49090E-06	544365.2	3754946.3	277.5	0.00	1.70	0.76	YES	
L0050615	0	0.49090E-06	544365.2	3754942.6	277.4	0.00	1.70	0.76	YES	
L0050616	0	0.49090E-06	544365.3	3754939.0	277.4	0.00	1.70	0.76	YES	
L0050617	0	0.49090E-06	544365.3	3754935.3	277.3	0.00	1.70	0.76	YES	
L0050618	0	0.49090E-06	544365.3	3754931.7	277.2	0.00	1.70	0.76	YES	
L0050619	0	0.49090E-06	544365.3	3754928.0	277.1	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0050620	0	0.49090E-06	544365.4	3754924.4	277.1	0.00	1.70	0.76	YES	
L0050621	0	0.49090E-06	544365.4	3754920.7	277.0	0.00	1.70	0.76	YES	
L0050622	0	0.49090E-06	544365.4	3754917.0	276.9	0.00	1.70	0.76	YES	
L0050623	0	0.49090E-06	544365.4	3754913.4	276.9	0.00	1.70	0.76	YES	
L0050624	0	0.49090E-06	544365.5	3754909.7	276.8	0.00	1.70	0.76	YES	
L0050625	0	0.49090E-06	544365.5	3754906.1	276.7	0.00	1.70	0.76	YES	
L0050626	0	0.49090E-06	544365.5	3754902.4	276.6	0.00	1.70	0.76	YES	
L0050627	0	0.49090E-06	544365.5	3754898.8	276.6	0.00	1.70	0.76	YES	
L0050628	0	0.49090E-06	544365.6	3754895.1	276.5	0.00	1.70	0.76	YES	
L0050629	0	0.49090E-06	544365.6	3754891.4	276.4	0.00	1.70	0.76	YES	
L0050630	0	0.49090E-06	544365.6	3754887.8	276.4	0.00	1.70	0.76	YES	
L0050631	0	0.49090E-06	544365.6	3754884.1	276.3	0.00	1.70	0.76	YES	
L0050632	0	0.49090E-06	544365.7	3754880.5	276.2	0.00	1.70	0.76	YES	
L0050633	0	0.49090E-06	544365.7	3754876.8	276.1	0.00	1.70	0.76	YES	
L0050634	0	0.49090E-06	544365.7	3754873.2	276.1	0.00	1.70	0.76	YES	
L0050635	0	0.49090E-06	544365.7	3754869.5	276.0	0.00	1.70	0.76	YES	
L0050636	0	0.49090E-06	544365.8	3754865.8	275.9	0.00	1.70	0.76	YES	
L0050637	0	0.49090E-06	544365.8	3754862.2	275.9	0.00	1.70	0.76	YES	
L0050638	0	0.49090E-06	544365.8	3754858.5	275.8	0.00	1.70	0.76	YES	
L0050639	0	0.49090E-06	544365.8	3754854.9	275.7	0.00	1.70	0.76	YES	
L0050640	0	0.49090E-06	544365.9	3754851.2	275.6	0.00	1.70	0.76	YES	
L0050641	0	0.49090E-06	544365.9	3754847.6	275.6	0.00	1.70	0.76	YES	
L0050642	0	0.49090E-06	544365.9	3754843.9	275.5	0.00	1.70	0.76	YES	

L0050643	0	0.49090E-06	544365.9	3754840.2	275.4	0.00	1.70	0.76	YES	
L0050644	0	0.49090E-06	544366.0	3754836.6	275.4	0.00	1.70	0.76	YES	
L0050645	0	0.49090E-06	544366.0	3754832.9	275.3	0.00	1.70	0.76	YES	
L0050646	0	0.49090E-06	544366.0	3754829.3	275.2	0.00	1.70	0.76	YES	
L0050647	0	0.49090E-06	544366.0	3754825.6	275.2	0.00	1.70	0.76	YES	
L0050648	0	0.49090E-06	544366.1	3754822.0	275.1	0.00	1.70	0.76	YES	
L0050649	0	0.49090E-06	544366.1	3754818.3	275.0	0.00	1.70	0.76	YES	
L0050650	0	0.49090E-06	544366.1	3754814.6	275.0	0.00	1.70	0.76	YES	
L0050651	0	0.49090E-06	544366.1	3754811.0	274.9	0.00	1.70	0.76	YES	
L0050652	0	0.49090E-06	544366.2	3754807.3	274.8	0.00	1.70	0.76	YES	
L0050653	0	0.49090E-06	544366.2	3754803.7	274.8	0.00	1.70	0.76	YES	
L0050654	0	0.49090E-06	544366.2	3754800.0	274.7	0.00	1.70	0.76	YES	
L0050655	0	0.49090E-06	544366.2	3754796.3	274.6	0.00	1.70	0.76	YES	
L0050656	0	0.49090E-06	544366.3	3754792.7	274.6	0.00	1.70	0.76	YES	
L0050657	0	0.49090E-06	544366.3	3754789.0	274.5	0.00	1.70	0.76	YES	
L0050658	0	0.49090E-06	544366.3	3754785.4	274.5	0.00	1.70	0.76	YES	
L0050659	0	0.49090E-06	544366.3	3754781.7	274.4	0.00	1.70	0.76	YES	

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*** VOLUME SOURCE DATA ***

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L0050660	0	0.49090E-06	544366.4	3754778.1	274.4	0.00	1.70	0.76	YES	
L0050661	0	0.49090E-06	544366.4	3754774.4	274.3	0.00	1.70	0.76	YES	
L0050662	0	0.49090E-06	544366.4	3754770.7	274.2	0.00	1.70	0.76	YES	
L0050663	0	0.49090E-06	544366.4	3754767.1	274.2	0.00	1.70	0.76	YES	
L0050664	0	0.49090E-06	544366.5	3754763.4	274.1	0.00	1.70	0.76	YES	
L0050665	0	0.49090E-06	544366.5	3754759.8	274.1	0.00	1.70	0.76	YES	
L0050666	0	0.49090E-06	544366.5	3754756.1	274.0	0.00	1.70	0.76	YES	
L0050667	0	0.49090E-06	544366.5	3754752.5	273.9	0.00	1.70	0.76	YES	
L0050668	0	0.49090E-06	544366.6	3754748.8	273.9	0.00	1.70	0.76	YES	
L0050669	0	0.49090E-06	544366.6	3754745.1	273.8	0.00	1.70	0.76	YES	
L0050670	0	0.49210E-06	543903.0	3755545.1	290.6	0.00	1.70	0.76	YES	
L0050671	0	0.49210E-06	543901.8	3755541.6	290.6	0.00	1.70	0.76	YES	
L0050672	0	0.49210E-06	543900.6	3755538.1	290.5	0.00	1.70	0.76	YES	
L0050673	0	0.49210E-06	543899.5	3755534.7	290.5	0.00	1.70	0.76	YES	
L0050674	0	0.49210E-06	543898.3	3755531.2	290.4	0.00	1.70	0.76	YES	
L0050675	0	0.49210E-06	543897.1	3755527.7	290.4	0.00	1.70	0.76	YES	
L0050676	0	0.49210E-06	543896.0	3755524.3	290.3	0.00	1.70	0.76	YES	
L0050677	0	0.49210E-06	543894.8	3755520.8	290.2	0.00	1.70	0.76	YES	
L0050678	0	0.49210E-06	543893.7	3755517.3	290.2	0.00	1.70	0.76	YES	
L0050679	0	0.49210E-06	543893.7	3755513.7	290.1	0.00	1.70	0.76	YES	

L0050680	0	0.49210E-06	543893.7	3755510.0	290.0	0.00	1.70	0.76	YES	
L0050681	0	0.49210E-06	543893.7	3755506.4	289.9	0.00	1.70	0.76	YES	
L0050682	0	0.49210E-06	543893.8	3755502.7	289.8	0.00	1.70	0.76	YES	
L0050683	0	0.49210E-06	543893.8	3755499.1	289.8	0.00	1.70	0.76	YES	
L0050684	0	0.49210E-06	543893.8	3755495.4	289.7	0.00	1.70	0.76	YES	
L0050685	0	0.49210E-06	543893.8	3755491.7	289.6	0.00	1.70	0.76	YES	
L0050686	0	0.49210E-06	543893.8	3755488.1	289.5	0.00	1.70	0.76	YES	
L0050687	0	0.49210E-06	543893.8	3755484.4	289.4	0.00	1.70	0.76	YES	
L0050688	0	0.49210E-06	543893.8	3755480.8	289.4	0.00	1.70	0.76	YES	
L0050689	0	0.49210E-06	543893.9	3755477.1	289.3	0.00	1.70	0.76	YES	
L0050690	0	0.49210E-06	543893.9	3755473.4	289.2	0.00	1.70	0.76	YES	
L0050691	0	0.49210E-06	543893.9	3755469.8	289.1	0.00	1.70	0.76	YES	
L0050692	0	0.49210E-06	543893.9	3755466.1	289.1	0.00	1.70	0.76	YES	
L0050693	0	0.49210E-06	543893.9	3755462.5	289.0	0.00	1.70	0.76	YES	
L0050694	0	0.49210E-06	543893.9	3755458.8	288.9	0.00	1.70	0.76	YES	
L0050695	0	0.49210E-06	543894.0	3755455.2	288.8	0.00	1.70	0.76	YES	
L0050696	0	0.49210E-06	543894.0	3755451.5	288.8	0.00	1.70	0.76	YES	
L0050697	0	0.49210E-06	543894.0	3755447.8	288.7	0.00	1.70	0.76	YES	
L0050698	0	0.49210E-06	543894.0	3755444.2	288.6	0.00	1.70	0.76	YES	
L0050699	0	0.49210E-06	543894.0	3755440.5	288.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0050700	0	0.49210E-06	543894.0	3755436.9	288.4	0.00	1.70	0.76	YES	
L0050701	0	0.49210E-06	543894.0	3755433.2	288.4	0.00	1.70	0.76	YES	
L0050702	0	0.49210E-06	543894.1	3755429.6	288.3	0.00	1.70	0.76	YES	
L0050703	0	0.49210E-06	543894.1	3755425.9	288.2	0.00	1.70	0.76	YES	
L0050704	0	0.49210E-06	543894.1	3755422.2	288.1	0.00	1.70	0.76	YES	
L0050705	0	0.49210E-06	543894.1	3755418.6	288.1	0.00	1.70	0.76	YES	
L0050706	0	0.49210E-06	543894.1	3755414.9	288.0	0.00	1.70	0.76	YES	
L0050707	0	0.49210E-06	543894.1	3755411.3	287.9	0.00	1.70	0.76	YES	
L0050708	0	0.49210E-06	543894.2	3755407.6	287.8	0.00	1.70	0.76	YES	
L0050709	0	0.49210E-06	543894.2	3755404.0	287.8	0.00	1.70	0.76	YES	
L0050710	0	0.49210E-06	543894.2	3755400.3	287.7	0.00	1.70	0.76	YES	
L0050711	0	0.49210E-06	543894.2	3755396.6	287.6	0.00	1.70	0.76	YES	
L0050712	0	0.49210E-06	543894.2	3755393.0	287.5	0.00	1.70	0.76	YES	
L0050713	0	0.49210E-06	543894.2	3755389.3	287.5	0.00	1.70	0.76	YES	
L0050714	0	0.49210E-06	543894.2	3755385.7	287.4	0.00	1.70	0.76	YES	
L0050715	0	0.49210E-06	543894.3	3755382.0	287.3	0.00	1.70	0.76	YES	
L0050716	0	0.49210E-06	543894.3	3755378.4	287.3	0.00	1.70	0.76	YES	

L0050717	0	0.49210E-06	543894.3	3755374.7	287.2	0.00	1.70	0.76	YES	
L0050718	0	0.49210E-06	543894.3	3755371.0	287.1	0.00	1.70	0.76	YES	
L0050719	0	0.49210E-06	543894.3	3755367.4	287.1	0.00	1.70	0.76	YES	
L0050720	0	0.49210E-06	543894.3	3755363.7	287.0	0.00	1.70	0.76	YES	
L0050721	0	0.49210E-06	543894.4	3755360.1	287.0	0.00	1.70	0.76	YES	
L0050722	0	0.49210E-06	543894.4	3755356.4	286.9	0.00	1.70	0.76	YES	
L0050723	0	0.49210E-06	543894.4	3755352.8	286.9	0.00	1.70	0.76	YES	
L0050724	0	0.49210E-06	543894.4	3755349.1	286.8	0.00	1.70	0.76	YES	
L0050725	0	0.49210E-06	543894.4	3755345.4	286.8	0.00	1.70	0.76	YES	
L0050726	0	0.49210E-06	543894.4	3755341.8	286.7	0.00	1.70	0.76	YES	
L0050727	0	0.49210E-06	543894.5	3755338.1	286.7	0.00	1.70	0.76	YES	
L0050728	0	0.49210E-06	543894.5	3755334.5	286.6	0.00	1.70	0.76	YES	
L0050729	0	0.49210E-06	543894.5	3755330.8	286.5	0.00	1.70	0.76	YES	
L0050730	0	0.49210E-06	543894.5	3755327.1	286.5	0.00	1.70	0.76	YES	
L0050731	0	0.49210E-06	543894.5	3755323.5	286.4	0.00	1.70	0.76	YES	
L0050732	0	0.49210E-06	543894.5	3755319.8	286.4	0.00	1.70	0.76	YES	
L0050733	0	0.49210E-06	543894.3	3755316.2	286.3	0.00	1.70	0.76	YES	
L0050734	0	0.49210E-06	543894.7	3755312.6	286.2	0.00	1.70	0.76	YES	
L0050735	0	0.49210E-06	543896.4	3755309.4	286.2	0.00	1.70	0.76	YES	
L0050736	0	0.49210E-06	543898.1	3755306.2	286.1	0.00	1.70	0.76	YES	
L0050737	0	0.49210E-06	543899.8	3755302.9	286.1	0.00	1.70	0.76	YES	
L0050738	0	0.49210E-06	543901.5	3755299.7	286.0	0.00	1.70	0.76	YES	
L0050739	0	0.49210E-06	543903.2	3755296.5	285.9	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0050740	0	0.49210E-06	543904.9	3755293.2	285.9	0.00	1.70	0.76	YES	
L0050741	0	0.49210E-06	543906.6	3755290.0	285.8	0.00	1.70	0.76	YES	
L0050742	0	0.49210E-06	543908.3	3755286.7	285.7	0.00	1.70	0.76	YES	
L0050743	0	0.49210E-06	543910.0	3755283.5	285.7	0.00	1.70	0.76	YES	
L0050744	0	0.49210E-06	543911.7	3755280.3	285.6	0.00	1.70	0.76	YES	
L0050745	0	0.49210E-06	543913.4	3755277.0	285.6	0.00	1.70	0.76	YES	
L0050746	0	0.49210E-06	543915.1	3755273.8	285.5	0.00	1.70	0.76	YES	
L0050747	0	0.49210E-06	543916.8	3755270.5	285.4	0.00	1.70	0.76	YES	
L0050748	0	0.49210E-06	543918.5	3755267.3	285.4	0.00	1.70	0.76	YES	
L0050749	0	0.49210E-06	543920.2	3755264.1	285.3	0.00	1.70	0.76	YES	
L0050750	0	0.49210E-06	543921.9	3755260.8	285.3	0.00	1.70	0.76	YES	
L0050751	0	0.49210E-06	543923.6	3755257.6	285.2	0.00	1.70	0.76	YES	
L0050752	0	0.49210E-06	543925.3	3755254.4	285.2	0.00	1.70	0.76	YES	
L0050753	0	0.49210E-06	543927.0	3755251.1	285.1	0.00	1.70	0.76	YES	

L0050754	0	0.49210E-06	543928.7	3755247.9	285.1	0.00	1.70	0.76	YES	
L0050755	0	0.49210E-06	543930.4	3755244.6	285.0	0.00	1.70	0.76	YES	
L0050756	0	0.49210E-06	543932.1	3755241.4	284.9	0.00	1.70	0.76	YES	
L0050757	0	0.49210E-06	543933.8	3755238.2	284.9	0.00	1.70	0.76	YES	
L0050758	0	0.49210E-06	543935.5	3755234.9	284.8	0.00	1.70	0.76	YES	
L0050759	0	0.49210E-06	543937.2	3755231.7	284.8	0.00	1.70	0.76	YES	
L0050760	0	0.49210E-06	543938.9	3755228.5	284.7	0.00	1.70	0.76	YES	
L0050761	0	0.49210E-06	543940.6	3755225.2	284.6	0.00	1.70	0.76	YES	
L0050762	0	0.49210E-06	543942.3	3755222.0	284.6	0.00	1.70	0.76	YES	
L0050763	0	0.49210E-06	543944.0	3755218.7	284.5	0.00	1.70	0.76	YES	
L0050764	0	0.49210E-06	543945.7	3755215.5	284.4	0.00	1.70	0.76	YES	
L0050765	0	0.49210E-06	543947.4	3755212.3	284.4	0.00	1.70	0.76	YES	
L0050766	0	0.49210E-06	543949.2	3755209.0	284.3	0.00	1.70	0.76	YES	
L0050767	0	0.49210E-06	543951.0	3755205.9	284.2	0.00	1.70	0.76	YES	
L0050768	0	0.49210E-06	543952.8	3755202.7	284.1	0.00	1.70	0.76	YES	
L0050769	0	0.49210E-06	543954.6	3755199.5	284.0	0.00	1.70	0.76	YES	
L0050770	0	0.49210E-06	543956.4	3755196.3	283.9	0.00	1.70	0.76	YES	
L0050771	0	0.49210E-06	543958.2	3755193.2	283.8	0.00	1.70	0.76	YES	
L0050772	0	0.49210E-06	543960.1	3755190.0	283.7	0.00	1.70	0.76	YES	
L0050773	0	0.49210E-06	543961.9	3755186.8	283.6	0.00	1.70	0.76	YES	
L0050774	0	0.49210E-06	543963.7	3755183.6	283.5	0.00	1.70	0.76	YES	
L0050775	0	0.49210E-06	543965.5	3755180.4	283.4	0.00	1.70	0.76	YES	
L0050776	0	0.49210E-06	543967.3	3755177.3	283.3	0.00	1.70	0.76	YES	
L0050777	0	0.49210E-06	543969.1	3755174.1	283.2	0.00	1.70	0.76	YES	
L0050778	0	0.49210E-06	543970.9	3755170.9	283.2	0.00	1.70	0.76	YES	
L0050779	0	0.49210E-06	543972.7	3755167.7	283.1	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0050780	0	0.49210E-06	543974.5	3755164.6	283.0	0.00	1.70	0.76	YES	
L0050781	0	0.49210E-06	543976.3	3755161.4	282.9	0.00	1.70	0.76	YES	
L0050782	0	0.49210E-06	543978.2	3755158.2	282.8	0.00	1.70	0.76	YES	
L0050783	0	0.49210E-06	543980.0	3755155.0	282.7	0.00	1.70	0.76	YES	
L0050784	0	0.49210E-06	543981.8	3755151.8	282.6	0.00	1.70	0.76	YES	
L0050785	0	0.49210E-06	543983.6	3755148.7	282.4	0.00	1.70	0.76	YES	
L0050786	0	0.49210E-06	543985.4	3755145.5	282.3	0.00	1.70	0.76	YES	
L0050787	0	0.49210E-06	543987.2	3755142.3	282.2	0.00	1.70	0.76	YES	
L0050788	0	0.49210E-06	543989.0	3755139.1	282.1	0.00	1.70	0.76	YES	
L0050789	0	0.49210E-06	543990.8	3755135.9	281.9	0.00	1.70	0.76	YES	
L0050790	0	0.49210E-06	543992.6	3755132.8	281.9	0.00	1.70	0.76	YES	

L0050791	0	0.49210E-06	543994.4	3755129.6	281.8	0.00	1.70	0.76	YES	
L0050792	0	0.49210E-06	543996.3	3755126.4	281.7	0.00	1.70	0.76	YES	
L0050793	0	0.49210E-06	543998.1	3755123.2	281.7	0.00	1.70	0.76	YES	
L0050794	0	0.49210E-06	543999.9	3755120.1	281.7	0.00	1.70	0.76	YES	
L0050795	0	0.49210E-06	544001.7	3755116.9	281.6	0.00	1.70	0.76	YES	
L0050796	0	0.49210E-06	544003.5	3755113.7	281.6	0.00	1.70	0.76	YES	
L0050797	0	0.49210E-06	544005.3	3755110.5	281.6	0.00	1.70	0.76	YES	
L0050798	0	0.49210E-06	544007.1	3755107.3	281.5	0.00	1.70	0.76	YES	
L0050799	0	0.49210E-06	544008.9	3755104.2	281.5	0.00	1.70	0.76	YES	
L0050800	0	0.49210E-06	544010.7	3755101.0	281.5	0.00	1.70	0.76	YES	
L0050801	0	0.49210E-06	544012.6	3755097.8	281.4	0.00	1.70	0.76	YES	
L0050802	0	0.49210E-06	544015.6	3755096.8	281.4	0.00	1.70	0.76	YES	
L0050803	0	0.49210E-06	544019.3	3755096.9	281.4	0.00	1.70	0.76	YES	
L0050804	0	0.49210E-06	544023.0	3755096.9	281.5	0.00	1.70	0.76	YES	
L0050805	0	0.49210E-06	544026.6	3755097.0	281.5	0.00	1.70	0.76	YES	
L0050806	0	0.49210E-06	544030.3	3755097.0	281.5	0.00	1.70	0.76	YES	
L0050807	0	0.49210E-06	544033.9	3755097.1	281.5	0.00	1.70	0.76	YES	
L0050808	0	0.49210E-06	544037.6	3755097.1	281.5	0.00	1.70	0.76	YES	
L0050809	0	0.49210E-06	544041.2	3755097.2	281.5	0.00	1.70	0.76	YES	
L0050810	0	0.49210E-06	544044.9	3755097.3	281.5	0.00	1.70	0.76	YES	
L0050811	0	0.49210E-06	544048.6	3755097.3	281.5	0.00	1.70	0.76	YES	
L0050812	0	0.49210E-06	544052.2	3755097.4	281.5	0.00	1.70	0.76	YES	
L0050813	0	0.49210E-06	544055.9	3755097.4	281.5	0.00	1.70	0.76	YES	
L0050814	0	0.49210E-06	544059.5	3755097.5	281.5	0.00	1.70	0.76	YES	
L0050815	0	0.49210E-06	544063.2	3755097.5	281.5	0.00	1.70	0.76	YES	
L0050816	0	0.49210E-06	544066.8	3755097.6	281.5	0.00	1.70	0.76	YES	
L0050817	0	0.49210E-06	544070.5	3755097.6	281.5	0.00	1.70	0.76	YES	
L0050818	0	0.49210E-06	544074.2	3755097.7	281.5	0.00	1.70	0.76	YES	
L0050819	0	0.49210E-06	544077.8	3755097.7	281.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0050820	0	0.49210E-06	544081.5	3755097.8	281.5	0.00	1.70	0.76	YES	
L0050821	0	0.49210E-06	544085.1	3755097.8	281.5	0.00	1.70	0.76	YES	
L0050822	0	0.49210E-06	544088.8	3755097.9	281.5	0.00	1.70	0.76	YES	
L0050823	0	0.49210E-06	544092.4	3755097.9	281.5	0.00	1.70	0.76	YES	
L0050824	0	0.49210E-06	544095.1	3755097.0	281.5	0.00	1.70	0.76	YES	
L0050825	0	0.49210E-06	544095.1	3755093.3	281.4	0.00	1.70	0.76	YES	
L0050826	0	0.49210E-06	544095.1	3755089.7	281.4	0.00	1.70	0.76	YES	
L0050827	0	0.49210E-06	544095.1	3755086.0	281.3	0.00	1.70	0.76	YES	

L0050828	0	0.49210E-06	544095.1	3755082.3	281.3	0.00	1.70	0.76	YES	
L0050829	0	0.49210E-06	544095.1	3755078.7	281.2	0.00	1.70	0.76	YES	
L0050830	0	0.49210E-06	544095.1	3755075.0	281.1	0.00	1.70	0.76	YES	
L0050831	0	0.49210E-06	544095.1	3755071.4	281.1	0.00	1.70	0.76	YES	
L0050832	0	0.49210E-06	544095.1	3755067.7	281.0	0.00	1.70	0.76	YES	
L0050833	0	0.49210E-06	544095.1	3755064.1	280.9	0.00	1.70	0.76	YES	
L0050834	0	0.49210E-06	544095.0	3755060.4	280.9	0.00	1.70	0.76	YES	
L0050835	0	0.49210E-06	544095.0	3755056.7	280.8	0.00	1.70	0.76	YES	
L0050836	0	0.49210E-06	544095.0	3755053.1	280.7	0.00	1.70	0.76	YES	
L0050837	0	0.49210E-06	544095.0	3755049.4	280.7	0.00	1.70	0.76	YES	
L0050838	0	0.49210E-06	544095.0	3755045.8	280.6	0.00	1.70	0.76	YES	
L0050839	0	0.49210E-06	544095.0	3755042.1	280.5	0.00	1.70	0.76	YES	
L0050840	0	0.49210E-06	544095.0	3755038.5	280.4	0.00	1.70	0.76	YES	
L0050841	0	0.49210E-06	544095.0	3755034.8	280.4	0.00	1.70	0.76	YES	
L0050842	0	0.49210E-06	544095.0	3755031.1	280.3	0.00	1.70	0.76	YES	
L0050843	0	0.49210E-06	544095.0	3755027.5	280.2	0.00	1.70	0.76	YES	
L0050844	0	0.49210E-06	544095.0	3755023.8	280.1	0.00	1.70	0.76	YES	
L0050845	0	0.49210E-06	544095.0	3755020.2	280.1	0.00	1.70	0.76	YES	
L0050846	0	0.49210E-06	544095.0	3755016.5	280.0	0.00	1.70	0.76	YES	
L0050847	0	0.49210E-06	544095.0	3755012.9	279.9	0.00	1.70	0.76	YES	
L0050848	0	0.49210E-06	544095.0	3755009.2	279.8	0.00	1.70	0.76	YES	
L0050849	0	0.49210E-06	544095.0	3755005.5	279.8	0.00	1.70	0.76	YES	
L0050850	0	0.49210E-06	544095.0	3755001.9	279.7	0.00	1.70	0.76	YES	
L0050851	0	0.49210E-06	544095.0	3754998.2	279.6	0.00	1.70	0.76	YES	
L0050852	0	0.49210E-06	544094.9	3754994.6	279.6	0.00	1.70	0.76	YES	
L0050853	0	0.49210E-06	544094.9	3754990.9	279.5	0.00	1.70	0.76	YES	
L0050854	0	0.49210E-06	544094.9	3754987.3	279.4	0.00	1.70	0.76	YES	
L0050855	0	0.49210E-06	544094.9	3754983.6	279.3	0.00	1.70	0.76	YES	
L0050856	0	0.49210E-06	544094.9	3754979.9	279.2	0.00	1.70	0.76	YES	
L0050857	0	0.49210E-06	544094.9	3754976.3	279.2	0.00	1.70	0.76	YES	
L0050858	0	0.49210E-06	544094.9	3754972.6	279.1	0.00	1.70	0.76	YES	
L0050859	0	0.49210E-06	544094.9	3754969.0	279.1	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0050860	0	0.49210E-06	544094.9	3754965.3	279.0	0.00	1.70	0.76	YES	
L0050861	0	0.49210E-06	544094.9	3754961.6	278.9	0.00	1.70	0.76	YES	
L0050862	0	0.49210E-06	544094.9	3754958.0	278.9	0.00	1.70	0.76	YES	
L0050863	0	0.49210E-06	544094.9	3754954.3	278.8	0.00	1.70	0.76	YES	
L0050864	0	0.49210E-06	544094.9	3754950.7	278.7	0.00	1.70	0.76	YES	

L0050865	0	0.49210E-06	544094.9	3754947.0	278.7	0.00	1.70	0.76	YES	
L0050866	0	0.49210E-06	544094.9	3754943.4	278.6	0.00	1.70	0.76	YES	
L0050867	0	0.49210E-06	544094.9	3754939.7	278.6	0.00	1.70	0.76	YES	
L0050868	0	0.49210E-06	544094.9	3754936.0	278.5	0.00	1.70	0.76	YES	
L0050869	0	0.49210E-06	544094.9	3754932.4	278.4	0.00	1.70	0.76	YES	
L0050870	0	0.49210E-06	544094.8	3754928.7	278.4	0.00	1.70	0.76	YES	
L0050871	0	0.49210E-06	544094.8	3754925.1	278.3	0.00	1.70	0.76	YES	
L0050872	0	0.49210E-06	544094.8	3754921.4	278.2	0.00	1.70	0.76	YES	
L0050873	0	0.49210E-06	544094.8	3754917.8	278.2	0.00	1.70	0.76	YES	
L0050874	0	0.49210E-06	544094.8	3754914.1	278.1	0.00	1.70	0.76	YES	
L0050875	0	0.49210E-06	544094.8	3754910.4	278.1	0.00	1.70	0.76	YES	
L0050876	0	0.49210E-06	544094.8	3754906.8	278.0	0.00	1.70	0.76	YES	
L0050877	0	0.49210E-06	544094.8	3754903.1	277.9	0.00	1.70	0.76	YES	
L0050878	0	0.49210E-06	544094.8	3754899.5	277.9	0.00	1.70	0.76	YES	
L0050879	0	0.49210E-06	544094.8	3754895.8	277.8	0.00	1.70	0.76	YES	
L0050880	0	0.49210E-06	544094.8	3754892.2	277.7	0.00	1.70	0.76	YES	
L0050881	0	0.49210E-06	544094.8	3754888.5	277.6	0.00	1.70	0.76	YES	
L0050882	0	0.49210E-06	544094.8	3754884.8	277.6	0.00	1.70	0.76	YES	
L0050883	0	0.49210E-06	544094.8	3754881.2	277.5	0.00	1.70	0.76	YES	
L0050884	0	0.49210E-06	544094.8	3754877.5	277.4	0.00	1.70	0.76	YES	
L0050885	0	0.49210E-06	544094.8	3754873.9	277.4	0.00	1.70	0.76	YES	
L0050886	0	0.49210E-06	544094.8	3754870.2	277.3	0.00	1.70	0.76	YES	
L0050887	0	0.49210E-06	544094.8	3754866.6	277.3	0.00	1.70	0.76	YES	
L0050888	0	0.49210E-06	544094.7	3754862.9	277.2	0.00	1.70	0.76	YES	
L0050889	0	0.49210E-06	544094.7	3754859.2	277.2	0.00	1.70	0.76	YES	
L0050890	0	0.49210E-06	544094.7	3754855.6	277.1	0.00	1.70	0.76	YES	
L0050891	0	0.49210E-06	544094.7	3754851.9	277.0	0.00	1.70	0.76	YES	
L0050892	0	0.49210E-06	544094.7	3754848.3	277.0	0.00	1.70	0.76	YES	
L0050893	0	0.49210E-06	544094.7	3754844.6	276.9	0.00	1.70	0.76	YES	
L0050894	0	0.49210E-06	544094.7	3754840.9	276.8	0.00	1.70	0.76	YES	
L0050895	0	0.49210E-06	544094.7	3754837.3	276.8	0.00	1.70	0.76	YES	
L0050896	0	0.49210E-06	544094.7	3754833.6	276.7	0.00	1.70	0.76	YES	
L0050897	0	0.49210E-06	544094.7	3754830.0	276.6	0.00	1.70	0.76	YES	
L0050898	0	0.49210E-06	544094.7	3754826.3	276.6	0.00	1.70	0.76	YES	
L0050899	0	0.49210E-06	544094.7	3754822.7	276.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0050900	0	0.49210E-06	544094.7	3754819.0	276.4	0.00	1.70	0.76	YES	
L0050901	0	0.49210E-06	544094.7	3754815.3	276.4	0.00	1.70	0.76	YES	

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L0050902         0   0.49210E-06  544094.7 3754811.7   276.3     0.00     1.70     0.76     YES
L0050903         0   0.49210E-06  544094.7 3754808.0   276.3     0.00     1.70     0.76     YES
L0050904         0   0.49210E-06  544094.7 3754804.4   276.2     0.00     1.70     0.76     YES
L0050905         0   0.49210E-06  544094.7 3754800.7   276.1     0.00     1.70     0.76     YES
L0050906         0   0.49210E-06  544094.6 3754797.1   276.1     0.00     1.70     0.76     YES
L0050907         0   0.49210E-06  544094.6 3754793.4   276.0     0.00     1.70     0.76     YES
L0050908         0   0.49210E-06  544094.6 3754789.7   276.0     0.00     1.70     0.76     YES
L0050909         0   0.49210E-06  544094.6 3754786.1   275.9     0.00     1.70     0.76     YES
L0050910         0   0.49210E-06  544094.6 3754782.4   275.8     0.00     1.70     0.76     YES
L0050911         0   0.49210E-06  544094.6 3754778.8   275.8     0.00     1.70     0.76     YES
L0050912         0   0.49210E-06  544094.6 3754775.1   275.7     0.00     1.70     0.76     YES
L0050913         0   0.49210E-06  544094.6 3754771.5   275.7     0.00     1.70     0.76     YES
L0050914         0   0.49210E-06  544094.6 3754767.8   275.6     0.00     1.70     0.76     YES
L0050915         0   0.49210E-06  544094.6 3754764.1   275.5     0.00     1.70     0.76     YES
L0050916         0   0.49210E-06  544094.6 3754760.5   275.5     0.00     1.70     0.76     YES
L0050917         0   0.49210E-06  544094.6 3754756.8   275.4     0.00     1.70     0.76     YES
L0050918         0   0.49210E-06  544094.6 3754753.2   275.4     0.00     1.70     0.76     YES
L0050919         0   0.49210E-06  544094.6 3754749.5   275.3     0.00     1.70     0.76     YES
L0050920         0   0.49210E-06  544094.6 3754745.9   275.2     0.00     1.70     0.76     YES
L0050921         0   0.49210E-06  544094.6 3754742.2   275.2     0.00     1.70     0.76     YES
L0050922         0   0.28080E-06  543688.1 3755627.4   293.9     0.00     1.70     0.76     YES
L0050923         0   0.28080E-06  543688.0 3755623.7   293.8     0.00     1.70     0.76     YES
L0050924         0   0.28080E-06  543688.0 3755620.1   293.7     0.00     1.70     0.76     YES
L0050925         0   0.28080E-06  543688.0 3755616.4   293.7     0.00     1.70     0.76     YES
L0050926         0   0.28080E-06  543687.9 3755612.7   293.6     0.00     1.70     0.76     YES
L0050927         0   0.28080E-06  543687.9 3755609.1   293.5     0.00     1.70     0.76     YES
L0050928         0   0.28080E-06  543687.9 3755605.4   293.4     0.00     1.70     0.76     YES
L0050929         0   0.28080E-06  543687.8 3755601.8   293.4     0.00     1.70     0.76     YES
L0050930         0   0.28080E-06  543687.8 3755598.1   293.3     0.00     1.70     0.76     YES
L0050931         0   0.28080E-06  543687.7 3755594.5   293.2     0.00     1.70     0.76     YES
L0050932         0   0.28080E-06  543687.7 3755590.8   293.1     0.00     1.70     0.76     YES
L0050933         0   0.28080E-06  543687.7 3755587.1   293.1     0.00     1.70     0.76     YES
L0050934         0   0.28080E-06  543687.6 3755583.5   293.0     0.00     1.70     0.76     YES
L0050935         0   0.28080E-06  543687.6 3755579.8   292.9     0.00     1.70     0.76     YES
L0050936         0   0.28080E-06  543687.6 3755576.2   292.9     0.00     1.70     0.76     YES
L0050937         0   0.28080E-06  543687.5 3755572.5   292.8     0.00     1.70     0.76     YES
L0050938         0   0.28080E-06  543687.5 3755568.9   292.7     0.00     1.70     0.76     YES
L0050939         0   0.28080E-06  543687.5 3755565.2   292.6     0.00     1.70     0.76     YES

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 1 yr                          ***        05/23/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 1 yr                                ***        16:16:28
                                                                                                                PAGE  20
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                        *** VOLUME SOURCE DATA ***

            NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.   URBAN  EMISSION RATE
  SOURCE     PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ     SOURCE  SCALAR VARY
    ID       CATS.               (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)             BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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L0050940	0	0.28080E-06	543687.4	3755561.5	292.6	0.00	1.70	0.76	YES
L0050941	0	0.28080E-06	543687.4	3755557.9	292.5	0.00	1.70	0.76	YES
L0050942	0	0.28080E-06	543687.3	3755554.2	292.4	0.00	1.70	0.76	YES
L0050943	0	0.28080E-06	543687.3	3755550.6	292.4	0.00	1.70	0.76	YES
L0050944	0	0.28080E-06	543687.3	3755546.9	292.3	0.00	1.70	0.76	YES
L0050945	0	0.28080E-06	543687.2	3755543.3	292.2	0.00	1.70	0.76	YES
L0050946	0	0.28080E-06	543687.2	3755539.6	292.2	0.00	1.70	0.76	YES
L0050947	0	0.28080E-06	543687.2	3755535.9	292.1	0.00	1.70	0.76	YES
L0050948	0	0.28080E-06	543687.1	3755532.3	292.1	0.00	1.70	0.76	YES
L0050949	0	0.28080E-06	543687.1	3755528.6	292.0	0.00	1.70	0.76	YES
L0050950	0	0.28080E-06	543687.1	3755525.0	291.9	0.00	1.70	0.76	YES
L0050951	0	0.28080E-06	543687.0	3755521.3	291.9	0.00	1.70	0.76	YES
L0050952	0	0.28080E-06	543687.0	3755517.6	291.8	0.00	1.70	0.76	YES
L0050953	0	0.28080E-06	543687.0	3755514.0	291.7	0.00	1.70	0.76	YES
L0050954	0	0.28080E-06	543686.9	3755510.3	291.7	0.00	1.70	0.76	YES
L0050955	0	0.28080E-06	543686.9	3755506.7	291.6	0.00	1.70	0.76	YES
L0050956	0	0.28080E-06	543686.8	3755503.0	291.6	0.00	1.70	0.76	YES
L0050957	0	0.28080E-06	543686.8	3755499.4	291.5	0.00	1.70	0.76	YES
L0050958	0	0.28080E-06	543686.8	3755495.7	291.4	0.00	1.70	0.76	YES
L0050959	0	0.28080E-06	543686.7	3755492.0	291.4	0.00	1.70	0.76	YES
L0050960	0	0.28080E-06	543686.7	3755488.4	291.3	0.00	1.70	0.76	YES
L0050961	0	0.28080E-06	543686.7	3755484.7	291.2	0.00	1.70	0.76	YES
L0050962	0	0.28080E-06	543686.6	3755481.1	291.2	0.00	1.70	0.76	YES
L0050963	0	0.28080E-06	543686.6	3755477.4	291.1	0.00	1.70	0.76	YES
L0050964	0	0.28080E-06	543686.6	3755473.8	291.1	0.00	1.70	0.76	YES
L0050965	0	0.28080E-06	543686.5	3755470.1	291.0	0.00	1.70	0.76	YES
L0050966	0	0.28080E-06	543686.5	3755466.4	290.9	0.00	1.70	0.76	YES
L0050967	0	0.28080E-06	543686.4	3755462.8	290.9	0.00	1.70	0.76	YES
L0050968	0	0.28080E-06	543686.4	3755459.1	290.8	0.00	1.70	0.76	YES
L0050969	0	0.28080E-06	543686.4	3755455.5	290.7	0.00	1.70	0.76	YES
L0050970	0	0.28080E-06	543686.3	3755451.8	290.7	0.00	1.70	0.76	YES
L0050971	0	0.28080E-06	543686.3	3755448.2	290.6	0.00	1.70	0.76	YES
L0050972	0	0.28080E-06	543686.3	3755444.5	290.5	0.00	1.70	0.76	YES
L0050973	0	0.28080E-06	543686.2	3755440.8	290.4	0.00	1.70	0.76	YES
L0050974	0	0.28080E-06	543686.2	3755437.2	290.4	0.00	1.70	0.76	YES
L0050975	0	0.28080E-06	543686.2	3755433.5	290.3	0.00	1.70	0.76	YES
L0050976	0	0.28080E-06	543686.1	3755429.9	290.2	0.00	1.70	0.76	YES
L0050977	0	0.28080E-06	543686.1	3755426.2	290.2	0.00	1.70	0.76	YES
L0050978	0	0.28080E-06	543686.1	3755422.6	290.1	0.00	1.70	0.76	YES
L0050979	0	0.28080E-06	543686.0	3755418.9	290.0	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER	EMISSION RATE	BASE	RELEASE	INIT.	INIT.	URBAN	EMISSION RATE

SOURCE ID	PART. CATS.	(GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE	SCALAR VARY BY
L0050980	0	0.28080E-06	543686.0	3755415.2	290.0	0.00	1.70	0.76	YES	
L0050981	0	0.28080E-06	543685.9	3755411.6	289.9	0.00	1.70	0.76	YES	
L0050982	0	0.28080E-06	543685.9	3755407.9	289.8	0.00	1.70	0.76	YES	
L0050983	0	0.28080E-06	543685.9	3755404.3	289.8	0.00	1.70	0.76	YES	
L0050984	0	0.28080E-06	543685.8	3755400.6	289.7	0.00	1.70	0.76	YES	
L0050985	0	0.28080E-06	543685.8	3755397.0	289.6	0.00	1.70	0.76	YES	
L0050986	0	0.28080E-06	543685.8	3755393.3	289.6	0.00	1.70	0.76	YES	
L0050987	0	0.28080E-06	543685.7	3755389.6	289.5	0.00	1.70	0.76	YES	
L0050988	0	0.28080E-06	543685.7	3755386.0	289.5	0.00	1.70	0.76	YES	
L0050989	0	0.28080E-06	543685.7	3755382.3	289.4	0.00	1.70	0.76	YES	
L0050990	0	0.28080E-06	543685.6	3755378.7	289.3	0.00	1.70	0.76	YES	
L0050991	0	0.28080E-06	543685.6	3755375.0	289.3	0.00	1.70	0.76	YES	
L0050992	0	0.28080E-06	543685.5	3755371.4	289.2	0.00	1.70	0.76	YES	
L0050993	0	0.28080E-06	543685.5	3755367.7	289.2	0.00	1.70	0.76	YES	
L0050994	0	0.28080E-06	543685.5	3755364.0	289.1	0.00	1.70	0.76	YES	
L0050995	0	0.28080E-06	543685.4	3755360.4	289.0	0.00	1.70	0.76	YES	
L0050996	0	0.28080E-06	543685.4	3755356.7	288.9	0.00	1.70	0.76	YES	
L0050997	0	0.28080E-06	543685.4	3755353.1	288.9	0.00	1.70	0.76	YES	
L0050998	0	0.28080E-06	543685.3	3755349.4	288.8	0.00	1.70	0.76	YES	
L0050999	0	0.28080E-06	543685.3	3755345.8	288.7	0.00	1.70	0.76	YES	
L0051000	0	0.28080E-06	543685.3	3755342.1	288.7	0.00	1.70	0.76	YES	
L0051001	0	0.28080E-06	543685.2	3755338.4	288.6	0.00	1.70	0.76	YES	
L0051002	0	0.28080E-06	543685.2	3755334.8	288.6	0.00	1.70	0.76	YES	
L0051003	0	0.28080E-06	543685.1	3755331.1	288.5	0.00	1.70	0.76	YES	
L0051004	0	0.28080E-06	543685.1	3755327.5	288.4	0.00	1.70	0.76	YES	
L0051005	0	0.28080E-06	543685.1	3755323.8	288.4	0.00	1.70	0.76	YES	
L0051006	0	0.28080E-06	543685.0	3755320.1	288.3	0.00	1.70	0.76	YES	
L0051007	0	0.28080E-06	543685.0	3755316.5	288.3	0.00	1.70	0.76	YES	
L0051008	0	0.28080E-06	543685.0	3755312.8	288.2	0.00	1.70	0.76	YES	
L0051009	0	0.28080E-06	543684.9	3755309.2	288.2	0.00	1.70	0.76	YES	
L0051010	0	0.28080E-06	543684.9	3755305.5	288.1	0.00	1.70	0.76	YES	
L0051011	0	0.28080E-06	543684.9	3755301.9	288.0	0.00	1.70	0.76	YES	
L0051012	0	0.28080E-06	543684.8	3755298.2	288.0	0.00	1.70	0.76	YES	
L0051013	0	0.28080E-06	543684.8	3755294.5	287.9	0.00	1.70	0.76	YES	
L0051014	0	0.28080E-06	543684.8	3755290.9	287.8	0.00	1.70	0.76	YES	
L0051015	0	0.28080E-06	543684.7	3755287.2	287.8	0.00	1.70	0.76	YES	
L0051016	0	0.28080E-06	543684.7	3755283.6	287.7	0.00	1.70	0.76	YES	
L0051017	0	0.28080E-06	543684.6	3755279.9	287.6	0.00	1.70	0.76	YES	
L0051018	0	0.28080E-06	543684.6	3755276.3	287.6	0.00	1.70	0.76	YES	
L0051019	0	0.28080E-06	543684.6	3755272.6	287.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0051020	0	0.28080E-06	543684.5	3755268.9	287.4	0.00	1.70	0.76	YES	
L0051021	0	0.28080E-06	543684.5	3755265.3	287.4	0.00	1.70	0.76	YES	
L0051022	0	0.28080E-06	543684.5	3755261.6	287.3	0.00	1.70	0.76	YES	
L0051023	0	0.28080E-06	543684.4	3755258.0	287.3	0.00	1.70	0.76	YES	
L0051024	0	0.28080E-06	543684.4	3755254.3	287.2	0.00	1.70	0.76	YES	
L0051025	0	0.28080E-06	543684.4	3755250.7	287.2	0.00	1.70	0.76	YES	
L0051026	0	0.28080E-06	543684.3	3755247.0	287.1	0.00	1.70	0.76	YES	
L0051027	0	0.28080E-06	543684.3	3755243.3	287.0	0.00	1.70	0.76	YES	
L0051028	0	0.28080E-06	543684.2	3755239.7	286.9	0.00	1.70	0.76	YES	
L0051029	0	0.28080E-06	543684.2	3755236.0	286.9	0.00	1.70	0.76	YES	
L0051030	0	0.28080E-06	543684.2	3755232.4	286.8	0.00	1.70	0.76	YES	
L0051031	0	0.28080E-06	543684.1	3755228.7	286.7	0.00	1.70	0.76	YES	
L0051032	0	0.28080E-06	543684.1	3755225.1	286.6	0.00	1.70	0.76	YES	
L0051033	0	0.28080E-06	543684.1	3755221.4	286.6	0.00	1.70	0.76	YES	
L0051034	0	0.28080E-06	543684.0	3755217.7	286.5	0.00	1.70	0.76	YES	
L0051035	0	0.28080E-06	543684.0	3755214.1	286.4	0.00	1.70	0.76	YES	
L0051036	0	0.28080E-06	543684.0	3755210.4	286.4	0.00	1.70	0.76	YES	
L0051037	0	0.28080E-06	543683.9	3755206.8	286.3	0.00	1.70	0.76	YES	
L0051038	0	0.28080E-06	543683.9	3755203.1	286.3	0.00	1.70	0.76	YES	
L0051039	0	0.28080E-06	543683.8	3755199.5	286.2	0.00	1.70	0.76	YES	
L0051040	0	0.28080E-06	543683.8	3755195.8	286.1	0.00	1.70	0.76	YES	
L0051041	0	0.28080E-06	543683.8	3755192.1	286.1	0.00	1.70	0.76	YES	
L0051042	0	0.28080E-06	543683.7	3755188.5	286.0	0.00	1.70	0.76	YES	
L0051043	0	0.28080E-06	543683.7	3755184.8	285.9	0.00	1.70	0.76	YES	
L0051044	0	0.28080E-06	543683.7	3755181.2	285.9	0.00	1.70	0.76	YES	
L0051045	0	0.28080E-06	543683.6	3755177.5	285.8	0.00	1.70	0.76	YES	
L0051046	0	0.28080E-06	543683.6	3755173.9	285.7	0.00	1.70	0.76	YES	
L0051047	0	0.28080E-06	543683.6	3755170.2	285.7	0.00	1.70	0.76	YES	
L0051048	0	0.28080E-06	543683.5	3755166.5	285.6	0.00	1.70	0.76	YES	
L0051049	0	0.28080E-06	543683.5	3755162.9	285.5	0.00	1.70	0.76	YES	
L0051050	0	0.28080E-06	543683.5	3755159.2	285.4	0.00	1.70	0.76	YES	
L0051051	0	0.28080E-06	543683.4	3755155.6	285.4	0.00	1.70	0.76	YES	
L0051052	0	0.28080E-06	543683.4	3755151.9	285.3	0.00	1.70	0.76	YES	
L0051053	0	0.28080E-06	543683.3	3755148.2	285.2	0.00	1.70	0.76	YES	
L0051054	0	0.28080E-06	543683.3	3755144.6	285.1	0.00	1.70	0.76	YES	
L0051055	0	0.28080E-06	543683.3	3755140.9	285.1	0.00	1.70	0.76	YES	
L0051056	0	0.28080E-06	543683.2	3755137.3	285.0	0.00	1.70	0.76	YES	
L0051057	0	0.28080E-06	543683.2	3755133.6	284.9	0.00	1.70	0.76	YES	
L0051058	0	0.28080E-06	543683.2	3755130.0	284.8	0.00	1.70	0.76	YES	
L0051059	0	0.28080E-06	543683.1	3755126.3	284.8	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0051060	0	0.28080E-06	543683.1	3755122.6	284.7	0.00	1.70	0.76	YES	
L0051061	0	0.28080E-06	543683.1	3755119.0	284.6	0.00	1.70	0.76	YES	
L0051062	0	0.28080E-06	543683.0	3755115.3	284.6	0.00	1.70	0.76	YES	
L0051063	0	0.28080E-06	543683.0	3755111.7	284.5	0.00	1.70	0.76	YES	
L0051064	0	0.28080E-06	543682.9	3755108.0	284.4	0.00	1.70	0.76	YES	
L0051065	0	0.28080E-06	543682.9	3755104.4	284.3	0.00	1.70	0.76	YES	
L0051066	0	0.28080E-06	543682.9	3755100.7	284.2	0.00	1.70	0.76	YES	
L0051067	0	0.28080E-06	543682.8	3755097.0	284.2	0.00	1.70	0.76	YES	
L0051068	0	0.28080E-06	543682.8	3755093.4	284.1	0.00	1.70	0.76	YES	
L0051069	0	0.28080E-06	543682.8	3755089.7	284.0	0.00	1.70	0.76	YES	
L0051070	0	0.28080E-06	543682.7	3755086.1	284.0	0.00	1.70	0.76	YES	
L0051071	0	0.28080E-06	543682.7	3755082.4	283.9	0.00	1.70	0.76	YES	
L0051072	0	0.28080E-06	543682.7	3755078.8	283.8	0.00	1.70	0.76	YES	
L0051073	0	0.28080E-06	543682.6	3755075.1	283.7	0.00	1.70	0.76	YES	
L0051074	0	0.28080E-06	543682.6	3755071.4	283.7	0.00	1.70	0.76	YES	
L0051075	0	0.28080E-06	543682.5	3755067.8	283.6	0.00	1.70	0.76	YES	
L0051076	0	0.28080E-06	543682.5	3755064.1	283.5	0.00	1.70	0.76	YES	
L0051077	0	0.28080E-06	543682.5	3755060.5	283.5	0.00	1.70	0.76	YES	
L0051078	0	0.28080E-06	543682.4	3755056.8	283.4	0.00	1.70	0.76	YES	
L0051079	0	0.28080E-06	543682.4	3755053.2	283.3	0.00	1.70	0.76	YES	
L0051080	0	0.28080E-06	543682.4	3755049.5	283.2	0.00	1.70	0.76	YES	
L0051081	0	0.28080E-06	543682.3	3755045.8	283.2	0.00	1.70	0.76	YES	
L0051082	0	0.28080E-06	543682.3	3755042.2	283.1	0.00	1.70	0.76	YES	
L0051083	0	0.28080E-06	543682.3	3755038.5	283.0	0.00	1.70	0.76	YES	
L0051084	0	0.28080E-06	543682.2	3755034.9	283.0	0.00	1.70	0.76	YES	
L0051085	0	0.28080E-06	543682.2	3755031.2	282.9	0.00	1.70	0.76	YES	
L0051086	0	0.28080E-06	543682.2	3755027.6	282.9	0.00	1.70	0.76	YES	
L0051087	0	0.28080E-06	543682.1	3755023.9	282.8	0.00	1.70	0.76	YES	
L0051088	0	0.28080E-06	543682.1	3755020.2	282.8	0.00	1.70	0.76	YES	
L0051089	0	0.28080E-06	543682.0	3755016.6	282.7	0.00	1.70	0.76	YES	
L0051090	0	0.28080E-06	543682.0	3755012.9	282.7	0.00	1.70	0.76	YES	
L0051091	0	0.28080E-06	543682.0	3755009.3	282.6	0.00	1.70	0.76	YES	
L0051092	0	0.28080E-06	543681.9	3755005.6	282.6	0.00	1.70	0.76	YES	
L0051093	0	0.28080E-06	543681.9	3755002.0	282.5	0.00	1.70	0.76	YES	
L0051094	0	0.28080E-06	543681.9	3754998.3	282.4	0.00	1.70	0.76	YES	
L0051095	0	0.28080E-06	543681.8	3754994.6	282.4	0.00	1.70	0.76	YES	
L0051096	0	0.28080E-06	543681.8	3754991.0	282.3	0.00	1.70	0.76	YES	
L0051097	0	0.28080E-06	543681.8	3754987.3	282.3	0.00	1.70	0.76	YES	
L0051098	0	0.28080E-06	543681.7	3754983.7	282.2	0.00	1.70	0.76	YES	
L0051099	0	0.28080E-06	543681.7	3754980.0	282.2	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0051100	0	0.28080E-06	543681.6	3754976.4	282.1	0.00	1.70	0.76	YES	
L0051101	0	0.28080E-06	543681.6	3754972.7	282.0	0.00	1.70	0.76	YES	
L0051102	0	0.28080E-06	543681.6	3754969.0	282.0	0.00	1.70	0.76	YES	
L0051103	0	0.28080E-06	543681.5	3754965.4	281.9	0.00	1.70	0.76	YES	
L0051104	0	0.28080E-06	543681.5	3754961.7	281.9	0.00	1.70	0.76	YES	
L0051105	0	0.28080E-06	543681.5	3754958.1	281.8	0.00	1.70	0.76	YES	
L0051106	0	0.28080E-06	543681.4	3754954.4	281.8	0.00	1.70	0.76	YES	
L0051107	0	0.28080E-06	543681.4	3754950.7	281.7	0.00	1.70	0.76	YES	
L0051108	0	0.28080E-06	543681.4	3754947.1	281.7	0.00	1.70	0.76	YES	
L0051109	0	0.28080E-06	543681.3	3754943.4	281.6	0.00	1.70	0.76	YES	
L0051110	0	0.28080E-06	543681.3	3754939.8	281.6	0.00	1.70	0.76	YES	
L0051111	0	0.28080E-06	543681.2	3754936.1	281.5	0.00	1.70	0.76	YES	
L0051112	0	0.28080E-06	543681.2	3754932.5	281.4	0.00	1.70	0.76	YES	
L0051113	0	0.28080E-06	543681.2	3754928.8	281.4	0.00	1.70	0.76	YES	
L0051114	0	0.28080E-06	543681.1	3754925.1	281.3	0.00	1.70	0.76	YES	
L0051115	0	0.28080E-06	543681.1	3754921.5	281.3	0.00	1.70	0.76	YES	
L0051116	0	0.28080E-06	543681.1	3754917.8	281.2	0.00	1.70	0.76	YES	
L0051117	0	0.28080E-06	543681.0	3754914.2	281.1	0.00	1.70	0.76	YES	
L0051118	0	0.28080E-06	543681.0	3754910.5	281.1	0.00	1.70	0.76	YES	
L0051119	0	0.28080E-06	543681.0	3754906.9	281.0	0.00	1.70	0.76	YES	
L0051120	0	0.28080E-06	543680.9	3754903.2	280.9	0.00	1.70	0.76	YES	
L0051121	0	0.28080E-06	543680.9	3754899.5	280.9	0.00	1.70	0.76	YES	
L0051122	0	0.28080E-06	543680.9	3754895.9	280.8	0.00	1.70	0.76	YES	
L0051123	0	0.28080E-06	543680.8	3754892.2	280.7	0.00	1.70	0.76	YES	
L0051124	0	0.28080E-06	543680.8	3754888.6	280.6	0.00	1.70	0.76	YES	
L0051125	0	0.28080E-06	543680.7	3754884.9	280.6	0.00	1.70	0.76	YES	
L0051126	0	0.28080E-06	543680.7	3754881.3	280.5	0.00	1.70	0.76	YES	
L0051127	0	0.28080E-06	543680.7	3754877.6	280.4	0.00	1.70	0.76	YES	
L0051128	0	0.28080E-06	543680.6	3754873.9	280.4	0.00	1.70	0.76	YES	
L0051129	0	0.28080E-06	543680.6	3754870.3	280.3	0.00	1.70	0.76	YES	
L0051130	0	0.28080E-06	543680.6	3754866.6	280.2	0.00	1.70	0.76	YES	
L0051131	0	0.28080E-06	543680.5	3754863.0	280.1	0.00	1.70	0.76	YES	
L0051132	0	0.28080E-06	543680.5	3754859.3	280.1	0.00	1.70	0.76	YES	
L0051133	0	0.28080E-06	543680.5	3754855.7	280.0	0.00	1.70	0.76	YES	
L0051134	0	0.28080E-06	543680.4	3754852.0	279.9	0.00	1.70	0.76	YES	
L0051135	0	0.28080E-06	543680.4	3754848.3	279.8	0.00	1.70	0.76	YES	
L0051136	0	0.28080E-06	543680.3	3754844.7	279.8	0.00	1.70	0.76	YES	
L0051137	0	0.28080E-06	543680.3	3754841.0	279.7	0.00	1.70	0.76	YES	

L0051138	0	0.28080E-06	543680.3	3754837.4	279.6	0.00	1.70	0.76	YES	
L0051139	0	0.28080E-06	543680.2	3754833.7	279.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0051140	0	0.28080E-06	543680.2	3754830.1	279.4	0.00	1.70	0.76	YES	
L0051141	0	0.28080E-06	543680.2	3754826.4	279.4	0.00	1.70	0.76	YES	
L0051142	0	0.28080E-06	543680.1	3754822.7	279.3	0.00	1.70	0.76	YES	
L0051143	0	0.28080E-06	543680.1	3754819.1	279.2	0.00	1.70	0.76	YES	
L0051144	0	0.28080E-06	543680.1	3754815.4	279.1	0.00	1.70	0.76	YES	
L0051145	0	0.28080E-06	543680.0	3754811.8	279.0	0.00	1.70	0.76	YES	
L0051146	0	0.28080E-06	543680.0	3754808.1	279.0	0.00	1.70	0.76	YES	
L0051147	0	0.28080E-06	543679.9	3754804.5	278.9	0.00	1.70	0.76	YES	
L0051148	0	0.28080E-06	543679.9	3754800.8	278.8	0.00	1.70	0.76	YES	
L0051149	0	0.28080E-06	543679.9	3754797.1	278.7	0.00	1.70	0.76	YES	
L0051150	0	0.28080E-06	543679.8	3754793.5	278.7	0.00	1.70	0.76	YES	
L0051151	0	0.28080E-06	543679.8	3754789.8	278.6	0.00	1.70	0.76	YES	
L0051152	0	0.28080E-06	543679.8	3754786.2	278.5	0.00	1.70	0.76	YES	
L0051153	0	0.28080E-06	543679.7	3754782.5	278.4	0.00	1.70	0.76	YES	
L0051154	0	0.28080E-06	543679.7	3754778.9	278.4	0.00	1.70	0.76	YES	
L0051155	0	0.28080E-06	543679.7	3754775.2	278.3	0.00	1.70	0.76	YES	
L0051156	0	0.28080E-06	543679.6	3754771.5	278.2	0.00	1.70	0.76	YES	
L0051157	0	0.28080E-06	543679.6	3754767.9	278.2	0.00	1.70	0.76	YES	
L0051158	0	0.28080E-06	543679.6	3754764.2	278.1	0.00	1.70	0.76	YES	
L0051159	0	0.28080E-06	543679.5	3754760.6	278.0	0.00	1.70	0.76	YES	
L0051160	0	0.28080E-06	543679.5	3754756.9	277.9	0.00	1.70	0.76	YES	
L0051161	0	0.28080E-06	543679.4	3754753.2	277.9	0.00	1.70	0.76	YES	
L0051162	0	0.28080E-06	543679.4	3754749.6	277.8	0.00	1.70	0.76	YES	
L0051163	0	0.28080E-06	543679.4	3754745.9	277.7	0.00	1.70	0.76	YES	
L0051164	0	0.28080E-06	543679.3	3754742.3	277.6	0.00	1.70	0.76	YES	
L0051165	0	0.28080E-06	543679.3	3754738.6	277.6	0.00	1.70	0.76	YES	
L0051166	0	0.28080E-06	543679.3	3754735.0	277.5	0.00	1.70	0.76	YES	
L0051167	0	0.28080E-06	543679.2	3754731.3	277.4	0.00	1.70	0.76	YES	
L0051168	0	0.28080E-06	543679.2	3754727.6	277.3	0.00	1.70	0.76	YES	
L0051169	0	0.28080E-06	543679.2	3754724.0	277.3	0.00	1.70	0.76	YES	
L0051170	0	0.28080E-06	543679.1	3754720.3	277.2	0.00	1.70	0.76	YES	
L0051171	0	0.28080E-06	543679.1	3754716.7	277.1	0.00	1.70	0.76	YES	
L0051172	0	0.28080E-06	543679.0	3754713.0	277.1	0.00	1.70	0.76	YES	
L0051173	0	0.28080E-06	543679.0	3754709.4	277.0	0.00	1.70	0.76	YES	
L0051174	0	0.28080E-06	543679.0	3754705.7	276.9	0.00	1.70	0.76	YES	

L0051175	0	0.28080E-06	543678.9	3754702.0	276.8	0.00	1.70	0.76	YES	
L0051176	0	0.28080E-06	543678.9	3754698.4	276.8	0.00	1.70	0.76	YES	
L0051177	0	0.28080E-06	543678.9	3754694.7	276.7	0.00	1.70	0.76	YES	
L0051178	0	0.28080E-06	543678.8	3754691.1	276.6	0.00	1.70	0.76	YES	
L0051179	0	0.28080E-06	543678.8	3754687.4	276.6	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0051180	0	0.28080E-06	543678.8	3754683.8	276.5	0.00	1.70	0.76	YES	
L0051181	0	0.28080E-06	543678.7	3754680.1	276.4	0.00	1.70	0.76	YES	
L0051182	0	0.28080E-06	543678.7	3754676.4	276.4	0.00	1.70	0.76	YES	
L0051183	0	0.28080E-06	543678.7	3754672.8	276.3	0.00	1.70	0.76	YES	
L0051184	0	0.28080E-06	543678.6	3754669.1	276.2	0.00	1.70	0.76	YES	
L0051185	0	0.28080E-06	543678.6	3754665.5	276.2	0.00	1.70	0.76	YES	
L0051186	0	0.28080E-06	543678.5	3754661.8	276.1	0.00	1.70	0.76	YES	
L0051187	0	0.28080E-06	543678.5	3754658.2	276.1	0.00	1.70	0.76	YES	
L0051188	0	0.28080E-06	543678.5	3754654.5	276.0	0.00	1.70	0.76	YES	
L0051189	0	0.28080E-06	543678.4	3754650.8	275.9	0.00	1.70	0.76	YES	
L0051190	0	0.28080E-06	543678.4	3754647.2	275.9	0.00	1.70	0.76	YES	
L0051191	0	0.28080E-06	543678.4	3754643.5	275.8	0.00	1.70	0.76	YES	
L0051192	0	0.28080E-06	543678.3	3754639.9	275.8	0.00	1.70	0.76	YES	
L0051193	0	0.28080E-06	543678.3	3754636.2	275.7	0.00	1.70	0.76	YES	
L0051194	0	0.28080E-06	543678.3	3754632.6	275.7	0.00	1.70	0.76	YES	
L0051195	0	0.28080E-06	543678.2	3754628.9	275.6	0.00	1.70	0.76	YES	
L0051196	0	0.28080E-06	543678.2	3754625.2	275.5	0.00	1.70	0.76	YES	
L0051197	0	0.28080E-06	543678.1	3754621.6	275.5	0.00	1.70	0.76	YES	
L0051198	0	0.28080E-06	543678.1	3754617.9	275.4	0.00	1.70	0.76	YES	
L0051199	0	0.28080E-06	543678.1	3754614.3	275.3	0.00	1.70	0.76	YES	
L0051200	0	0.28080E-06	543678.0	3754610.6	275.3	0.00	1.70	0.76	YES	
L0051201	0	0.28080E-06	543678.0	3754607.0	275.2	0.00	1.70	0.76	YES	
L0051202	0	0.28080E-06	543678.0	3754603.3	275.2	0.00	1.70	0.76	YES	
L0051203	0	0.28080E-06	543677.9	3754599.6	275.1	0.00	1.70	0.76	YES	
L0051204	0	0.28080E-06	543677.9	3754596.0	275.0	0.00	1.70	0.76	YES	
L0051205	0	0.28080E-06	543677.9	3754592.3	274.9	0.00	1.70	0.76	YES	
L0051206	0	0.28080E-06	543677.8	3754588.7	274.9	0.00	1.70	0.76	YES	
L0051207	0	0.28080E-06	543677.8	3754585.0	274.8	0.00	1.70	0.76	YES	
L0051208	0	0.28080E-06	543677.7	3754581.3	274.7	0.00	1.70	0.76	YES	
L0051209	0	0.28080E-06	543677.7	3754577.7	274.6	0.00	1.70	0.76	YES	
L0051210	0	0.28080E-06	543677.7	3754574.0	274.6	0.00	1.70	0.76	YES	
L0051211	0	0.28080E-06	543677.6	3754570.4	274.5	0.00	1.70	0.76	YES	

L0051212	0	0.28080E-06	543677.6	3754566.7	274.4	0.00	1.70	0.76	YES
L0051213	0	0.28080E-06	543677.6	3754563.1	274.3	0.00	1.70	0.76	YES
L0051214	0	0.28080E-06	543677.5	3754559.4	274.3	0.00	1.70	0.76	YES
L0051215	0	0.28080E-06	543677.5	3754555.7	274.2	0.00	1.70	0.76	YES
L0051216	0	0.28080E-06	543677.5	3754552.1	274.1	0.00	1.70	0.76	YES
L0051217	0	0.28080E-06	543677.4	3754548.4	274.1	0.00	1.70	0.76	YES
L0051218	0	0.28080E-06	543677.4	3754544.8	274.0	0.00	1.70	0.76	YES
L0051219	0	0.28080E-06	543677.4	3754541.1	273.9	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0051220	0	0.28080E-06	543677.3	3754537.5	273.8	0.00	1.70	0.76	YES	
L0051221	0	0.28080E-06	543677.3	3754533.8	273.8	0.00	1.70	0.76	YES	
L0051222	0	0.28080E-06	543677.2	3754530.1	273.7	0.00	1.70	0.76	YES	
L0051223	0	0.28080E-06	543677.2	3754526.5	273.6	0.00	1.70	0.76	YES	
L0051224	0	0.28080E-06	543677.2	3754522.8	273.5	0.00	1.70	0.76	YES	
L0051225	0	0.28080E-06	543677.1	3754519.2	273.5	0.00	1.70	0.76	YES	
L0051226	0	0.28080E-06	543677.1	3754515.5	273.4	0.00	1.70	0.76	YES	
L0051227	0	0.28080E-06	543677.1	3754511.9	273.3	0.00	1.70	0.76	YES	
L0051228	0	0.28080E-06	543677.0	3754508.2	273.2	0.00	1.70	0.76	YES	
L0051229	0	0.28080E-06	543677.0	3754504.5	273.2	0.00	1.70	0.76	YES	
L0051230	0	0.28080E-06	543677.0	3754500.9	273.1	0.00	1.70	0.76	YES	
L0051231	0	0.28080E-06	543676.9	3754497.2	273.0	0.00	1.70	0.76	YES	
L0051232	0	0.28080E-06	543676.9	3754493.6	273.0	0.00	1.70	0.76	YES	
L0051233	0	0.28080E-06	543676.8	3754489.9	272.9	0.00	1.70	0.76	YES	
L0051234	0	0.28080E-06	543676.8	3754486.3	272.8	0.00	1.70	0.76	YES	
L0051235	0	0.28080E-06	543676.8	3754482.6	272.7	0.00	1.70	0.76	YES	
L0051236	0	0.28080E-06	543676.7	3754478.9	272.7	0.00	1.70	0.76	YES	
L0051237	0	0.28080E-06	543676.7	3754475.3	272.6	0.00	1.70	0.76	YES	
L0051238	0	0.28080E-06	543676.7	3754471.6	272.5	0.00	1.70	0.76	YES	
L0051239	0	0.28080E-06	543676.6	3754468.0	272.4	0.00	1.70	0.76	YES	
L0051240	0	0.28080E-06	543676.6	3754464.3	272.4	0.00	1.70	0.76	YES	
L0051241	0	0.28080E-06	543676.6	3754460.7	272.3	0.00	1.70	0.76	YES	
L0051242	0	0.28080E-06	543676.5	3754457.0	272.2	0.00	1.70	0.76	YES	
L0051243	0	0.28080E-06	543676.5	3754453.3	272.2	0.00	1.70	0.76	YES	
L0051244	0	0.28080E-06	543676.4	3754449.7	272.1	0.00	1.70	0.76	YES	
L0051245	0	0.28080E-06	543676.4	3754446.0	272.0	0.00	1.70	0.76	YES	
L0051246	0	0.28080E-06	543676.4	3754442.4	271.9	0.00	1.70	0.76	YES	
L0051247	0	0.28080E-06	543676.3	3754438.7	271.9	0.00	1.70	0.76	YES	
L0051248	0	0.28080E-06	543676.3	3754435.1	271.8	0.00	1.70	0.76	YES	

L0051249	0	0.28080E-06	543676.3	3754431.4	271.7	0.00	1.70	0.76	YES
L0051250	0	0.28080E-06	543676.2	3754427.7	271.7	0.00	1.70	0.76	YES
L0051251	0	0.28080E-06	543676.2	3754424.1	271.6	0.00	1.70	0.76	YES
L0051252	0	0.28080E-06	543676.2	3754420.4	271.5	0.00	1.70	0.76	YES
L0051253	0	0.28080E-06	543676.1	3754416.8	271.4	0.00	1.70	0.76	YES
L0051254	0	0.28080E-06	543676.1	3754413.1	271.4	0.00	1.70	0.76	YES
L0051255	0	0.28080E-06	543676.1	3754409.5	271.3	0.00	1.70	0.76	YES
L0051256	0	0.28080E-06	543676.0	3754405.8	271.2	0.00	1.70	0.76	YES
L0051257	0	0.28080E-06	543676.0	3754402.1	271.2	0.00	1.70	0.76	YES
L0051258	0	0.28080E-06	543675.9	3754398.5	271.1	0.00	1.70	0.76	YES
L0051259	0	0.28080E-06	543675.9	3754394.8	271.0	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0051260	0	0.28080E-06	543675.9	3754391.2	270.9	0.00	1.70	0.76	YES	
L0051261	0	0.28080E-06	543675.8	3754387.5	270.9	0.00	1.70	0.76	YES	
L0051262	0	0.28080E-06	543675.8	3754383.8	270.8	0.00	1.70	0.76	YES	
L0051263	0	0.28080E-06	543675.8	3754380.2	270.7	0.00	1.70	0.76	YES	
L0051264	0	0.28080E-06	543675.7	3754376.5	270.7	0.00	1.70	0.76	YES	
L0051265	0	0.28080E-06	543675.7	3754372.9	270.6	0.00	1.70	0.76	YES	
L0051266	0	0.28080E-06	543675.7	3754369.2	270.5	0.00	1.70	0.76	YES	
L0051267	0	0.28080E-06	543675.6	3754365.6	270.4	0.00	1.70	0.76	YES	
L0051268	0	0.28080E-06	543675.6	3754361.9	270.4	0.00	1.70	0.76	YES	
L0051269	0	0.28080E-06	543675.5	3754358.2	270.3	0.00	1.70	0.76	YES	
L0051270	0	0.28080E-06	543675.5	3754354.6	270.2	0.00	1.70	0.76	YES	
L0051271	0	0.28080E-06	543675.5	3754350.9	270.1	0.00	1.70	0.76	YES	
L0051272	0	0.28080E-06	543675.4	3754347.3	270.0	0.00	1.70	0.76	YES	
L0051273	0	0.28080E-06	543675.4	3754343.6	269.9	0.00	1.70	0.76	YES	
L0051274	0	0.28080E-06	543675.4	3754340.0	269.9	0.00	1.70	0.76	YES	
L0051275	0	0.28080E-06	543675.3	3754336.3	269.8	0.00	1.70	0.76	YES	
L0051276	0	0.28080E-06	543675.3	3754332.6	269.7	0.00	1.70	0.76	YES	
L0051277	0	0.28080E-06	543675.3	3754329.0	269.6	0.00	1.70	0.76	YES	
L0051278	0	0.28080E-06	543675.2	3754325.3	269.5	0.00	1.70	0.76	YES	
L0051279	0	0.28080E-06	543675.2	3754321.7	269.4	0.00	1.70	0.76	YES	
L0051280	0	0.28080E-06	543675.1	3754318.0	269.4	0.00	1.70	0.76	YES	
L0051281	0	0.28080E-06	543675.1	3754314.4	269.3	0.00	1.70	0.76	YES	
L0051282	0	0.28080E-06	543675.1	3754310.7	269.2	0.00	1.70	0.76	YES	
L0051283	0	0.28080E-06	543675.0	3754307.0	269.1	0.00	1.70	0.76	YES	
L0051284	0	0.28080E-06	543675.0	3754303.4	269.1	0.00	1.70	0.76	YES	
L0051285	0	0.28080E-06	543675.0	3754299.7	269.0	0.00	1.70	0.76	YES	

L0051286	0	0.28080E-06	543674.9	3754296.1	268.9	0.00	1.70	0.76	YES	
L0051287	0	0.28080E-06	543674.9	3754292.4	268.9	0.00	1.70	0.76	YES	
L0051288	0	0.28080E-06	543674.9	3754288.8	268.8	0.00	1.70	0.76	YES	
L0051289	0	0.28080E-06	543674.8	3754285.1	268.7	0.00	1.70	0.76	YES	
L0051290	0	0.28080E-06	543674.8	3754281.4	268.7	0.00	1.70	0.76	YES	
L0051291	0	0.28080E-06	543674.8	3754277.8	268.6	0.00	1.70	0.76	YES	
L0051292	0	0.28080E-06	543674.7	3754274.1	268.6	0.00	1.70	0.76	YES	
L0051293	0	0.28080E-06	543674.7	3754270.5	268.5	0.00	1.70	0.76	YES	
L0051294	0	0.28080E-06	543674.6	3754266.8	268.4	0.00	1.70	0.76	YES	
L0051295	0	0.28080E-06	543674.6	3754263.2	268.4	0.00	1.70	0.76	YES	
L0051296	0	0.28080E-06	543674.6	3754259.5	268.3	0.00	1.70	0.76	YES	
L0051297	0	0.28080E-06	543674.5	3754255.8	268.3	0.00	1.70	0.76	YES	
L0051298	0	0.28080E-06	543674.5	3754252.2	268.2	0.00	1.70	0.76	YES	
L0051299	0	0.28080E-06	543674.5	3754248.5	268.1	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0051300	0	0.28080E-06	543674.4	3754244.9	268.1	0.00	1.70	0.76	YES	
L0051301	0	0.28080E-06	543674.4	3754241.2	268.0	0.00	1.70	0.76	YES	
L0051302	0	0.28080E-06	543674.4	3754237.6	267.9	0.00	1.70	0.76	YES	
L0051303	0	0.28080E-06	543674.3	3754233.9	267.9	0.00	1.70	0.76	YES	
L0051304	0	0.28080E-06	543674.3	3754230.2	267.8	0.00	1.70	0.76	YES	
L0051305	0	0.28080E-06	543674.2	3754226.6	267.8	0.00	1.70	0.76	YES	
L0051306	0	0.28080E-06	543674.2	3754222.9	267.7	0.00	1.70	0.76	YES	
L0051307	0	0.28080E-06	543674.2	3754219.3	267.7	0.00	1.70	0.76	YES	
L0051308	0	0.28080E-06	543674.1	3754215.6	267.6	0.00	1.70	0.76	YES	
L0051309	0	0.28080E-06	543674.1	3754211.9	267.6	0.00	1.70	0.76	YES	
L0051310	0	0.28080E-06	543674.1	3754208.3	267.5	0.00	1.70	0.76	YES	
L0051311	0	0.28080E-06	543674.0	3754204.6	267.5	0.00	1.70	0.76	YES	
L0051312	0	0.28080E-06	543674.0	3754201.0	267.4	0.00	1.70	0.76	YES	
L0051313	0	0.28080E-06	543674.0	3754197.3	267.4	0.00	1.70	0.76	YES	
L0051314	0	0.28080E-06	543673.9	3754193.7	267.3	0.00	1.70	0.76	YES	
L0051315	0	0.28080E-06	543673.9	3754190.0	267.2	0.00	1.70	0.76	YES	
L0051316	0	0.28080E-06	543673.8	3754186.3	267.2	0.00	1.70	0.76	YES	
L0051317	0	0.28080E-06	543673.8	3754182.7	267.1	0.00	1.70	0.76	YES	
L0051318	0	0.28080E-06	543673.8	3754179.0	267.1	0.00	1.70	0.76	YES	
L0051319	0	0.28080E-06	543673.7	3754175.4	267.0	0.00	1.70	0.76	YES	
L0051320	0	0.28080E-06	543673.7	3754171.7	266.9	0.00	1.70	0.76	YES	
L0051321	0	0.28080E-06	543673.7	3754168.1	266.9	0.00	1.70	0.76	YES	
L0051322	0	0.28080E-06	543673.6	3754164.4	266.8	0.00	1.70	0.76	YES	

L0051323	0	0.28080E-06	543673.6	3754160.7	266.7	0.00	1.70	0.76	YES	
L0051324	0	0.28080E-06	543673.6	3754157.1	266.7	0.00	1.70	0.76	YES	
L0051325	0	0.28080E-06	543673.5	3754153.4	266.6	0.00	1.70	0.76	YES	
L0051326	0	0.28080E-06	543673.5	3754149.8	266.5	0.00	1.70	0.76	YES	
L0051327	0	0.28080E-06	543673.5	3754146.1	266.4	0.00	1.70	0.76	YES	
L0051328	0	0.28080E-06	543673.4	3754142.5	266.4	0.00	1.70	0.76	YES	
L0051329	0	0.28080E-06	543673.4	3754138.8	266.3	0.00	1.70	0.76	YES	
L0051330	0	0.28080E-06	543673.3	3754135.1	266.2	0.00	1.70	0.76	YES	
L0051331	0	0.28080E-06	543673.3	3754131.5	266.2	0.00	1.70	0.76	YES	
L0051332	0	0.28080E-06	543673.3	3754127.8	266.1	0.00	1.70	0.76	YES	
L0051333	0	0.28080E-06	543673.2	3754124.2	266.1	0.00	1.70	0.76	YES	
L0051334	0	0.28080E-06	543673.2	3754120.5	266.0	0.00	1.70	0.76	YES	
L0051335	0	0.28080E-06	543673.2	3754116.9	265.9	0.00	1.70	0.76	YES	
L0051336	0	0.28080E-06	543673.1	3754113.2	265.9	0.00	1.70	0.76	YES	
L0051337	0	0.28080E-06	543673.1	3754109.5	265.8	0.00	1.70	0.76	YES	
L0051338	0	0.28080E-06	543673.1	3754105.9	265.7	0.00	1.70	0.76	YES	
L0051339	0	0.28080E-06	543673.0	3754102.2	265.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0051340	0	0.28080E-06	543673.0	3754098.6	265.6	0.00	1.70	0.76	YES	
L0051341	0	0.28080E-06	543672.9	3754094.9	265.6	0.00	1.70	0.76	YES	
L0051342	0	0.28080E-06	543672.9	3754091.3	265.5	0.00	1.70	0.76	YES	
L0051343	0	0.28080E-06	543672.9	3754087.6	265.4	0.00	1.70	0.76	YES	
L0051344	0	0.28080E-06	543672.8	3754083.9	265.4	0.00	1.70	0.76	YES	
L0051345	0	0.28080E-06	543672.8	3754080.3	265.3	0.00	1.70	0.76	YES	
L0051346	0	0.28080E-06	543672.8	3754076.6	265.2	0.00	1.70	0.76	YES	
L0051347	0	0.28080E-06	543672.7	3754073.0	265.2	0.00	1.70	0.76	YES	
L0051348	0	0.28080E-06	543672.7	3754069.3	265.1	0.00	1.70	0.76	YES	
L0051349	0	0.28080E-06	543672.7	3754065.7	265.0	0.00	1.70	0.76	YES	
L0051350	0	0.28080E-06	543672.6	3754062.0	264.9	0.00	1.70	0.76	YES	
L0051351	0	0.28080E-06	543672.6	3754058.3	264.9	0.00	1.70	0.76	YES	
L0051352	0	0.28080E-06	543672.5	3754054.7	264.8	0.00	1.70	0.76	YES	
L0051353	0	0.28080E-06	543672.5	3754051.0	264.7	0.00	1.70	0.76	YES	
L0051354	0	0.28080E-06	543672.5	3754047.4	264.7	0.00	1.70	0.76	YES	
L0051355	0	0.28080E-06	543672.4	3754043.7	264.6	0.00	1.70	0.76	YES	
L0051356	0	0.28080E-06	543672.4	3754040.1	264.5	0.00	1.70	0.76	YES	
L0051357	0	0.28080E-06	543672.4	3754036.4	264.5	0.00	1.70	0.76	YES	
L0051358	0	0.28080E-06	543672.3	3754032.7	264.4	0.00	1.70	0.76	YES	
L0051359	0	0.28080E-06	543672.3	3754029.1	264.3	0.00	1.70	0.76	YES	

L0051360	0	0.28080E-06	543672.3	3754025.4	264.3	0.00	1.70	0.76	YES
L0051361	0	0.28080E-06	543672.2	3754021.8	264.2	0.00	1.70	0.76	YES
L0051362	0	0.28080E-06	543672.2	3754018.1	264.1	0.00	1.70	0.76	YES
L0051363	0	0.28080E-06	543672.2	3754014.4	264.1	0.00	1.70	0.76	YES
L0051364	0	0.28080E-06	543672.1	3754010.8	264.0	0.00	1.70	0.76	YES
L0051365	0	0.28080E-06	543672.1	3754007.1	263.9	0.00	1.70	0.76	YES
L0051366	0	0.28080E-06	543672.0	3754003.5	263.9	0.00	1.70	0.76	YES
L0051367	0	0.28080E-06	543672.0	3753999.8	263.8	0.00	1.70	0.76	YES
L0051368	0	0.28080E-06	543672.0	3753996.2	263.7	0.00	1.70	0.76	YES
L0051369	0	0.28080E-06	543671.9	3753992.5	263.7	0.00	1.70	0.76	YES
L0051370	0	0.28080E-06	543671.9	3753988.8	263.6	0.00	1.70	0.76	YES
L0051371	0	0.28080E-06	543671.9	3753985.2	263.5	0.00	1.70	0.76	YES
L0051372	0	0.28080E-06	543671.8	3753981.5	263.4	0.00	1.70	0.76	YES
L0051373	0	0.28080E-06	543671.8	3753977.9	263.4	0.00	1.70	0.76	YES
L0051374	0	0.28080E-06	543671.8	3753974.2	263.3	0.00	1.70	0.76	YES
L0051375	0	0.28080E-06	543671.7	3753970.6	263.2	0.00	1.70	0.76	YES
L0051376	0	0.28080E-06	543671.7	3753966.9	263.2	0.00	1.70	0.76	YES
L0051377	0	0.28080E-06	543671.6	3753963.2	263.1	0.00	1.70	0.76	YES
L0051378	0	0.28080E-06	543671.6	3753959.6	263.0	0.00	1.70	0.76	YES
L0051379	0	0.28080E-06	543671.6	3753955.9	262.9	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0051380	0	0.28080E-06	543671.5	3753952.3	262.9	0.00	1.70	0.76	YES	
L0051381	0	0.28080E-06	543671.5	3753948.6	262.8	0.00	1.70	0.76	YES	
L0051382	0	0.28080E-06	543671.5	3753945.0	262.7	0.00	1.70	0.76	YES	
L0051383	0	0.28080E-06	543671.4	3753941.3	262.7	0.00	1.70	0.76	YES	
L0051384	0	0.28080E-06	543671.4	3753937.6	262.6	0.00	1.70	0.76	YES	
L0051385	0	0.15860E-06	543669.1	3753932.3	262.5	0.00	1.70	0.76	YES	
L0051386	0	0.15860E-06	543665.5	3753932.3	262.5	0.00	1.70	0.76	YES	
L0051387	0	0.15860E-06	543661.8	3753932.3	262.5	0.00	1.70	0.76	YES	
L0051388	0	0.15860E-06	543658.2	3753932.3	262.5	0.00	1.70	0.76	YES	
L0051389	0	0.15860E-06	543654.5	3753932.3	262.5	0.00	1.70	0.76	YES	
L0051390	0	0.15860E-06	543650.9	3753932.3	262.5	0.00	1.70	0.76	YES	
L0051391	0	0.15860E-06	543647.2	3753932.3	262.5	0.00	1.70	0.76	YES	
L0051392	0	0.15860E-06	543643.5	3753932.3	262.6	0.00	1.70	0.76	YES	
L0051393	0	0.15860E-06	543639.9	3753932.3	262.6	0.00	1.70	0.76	YES	
L0051394	0	0.15860E-06	543636.2	3753932.2	262.6	0.00	1.70	0.76	YES	
L0051395	0	0.15860E-06	543632.6	3753932.2	262.6	0.00	1.70	0.76	YES	
L0051396	0	0.15860E-06	543628.9	3753932.2	262.6	0.00	1.70	0.76	YES	

L0051397	0	0.15860E-06	543625.2	3753932.2	262.6	0.00	1.70	0.76	YES	
L0051398	0	0.15860E-06	543621.6	3753932.2	262.6	0.00	1.70	0.76	YES	
L0051399	0	0.15860E-06	543617.9	3753932.2	262.6	0.00	1.70	0.76	YES	
L0051400	0	0.15860E-06	543614.3	3753932.2	262.6	0.00	1.70	0.76	YES	
L0051401	0	0.15860E-06	543610.6	3753932.2	262.6	0.00	1.70	0.76	YES	
L0051402	0	0.15860E-06	543607.0	3753932.2	262.6	0.00	1.70	0.76	YES	
L0051403	0	0.15860E-06	543603.3	3753932.2	262.7	0.00	1.70	0.76	YES	
L0051404	0	0.15860E-06	543599.6	3753932.2	262.7	0.00	1.70	0.76	YES	
L0051405	0	0.15860E-06	543596.0	3753932.2	262.7	0.00	1.70	0.76	YES	
L0051406	0	0.15860E-06	543592.3	3753932.1	262.7	0.00	1.70	0.76	YES	
L0051407	0	0.15860E-06	543588.7	3753932.1	262.7	0.00	1.70	0.76	YES	
L0051408	0	0.15860E-06	543585.0	3753932.1	262.7	0.00	1.70	0.76	YES	
L0051409	0	0.15860E-06	543581.4	3753932.1	262.7	0.00	1.70	0.76	YES	
L0051410	0	0.15860E-06	543577.7	3753932.1	262.7	0.00	1.70	0.76	YES	
L0051411	0	0.15860E-06	543574.0	3753932.1	262.8	0.00	1.70	0.76	YES	
L0051412	0	0.15860E-06	543570.4	3753932.1	262.8	0.00	1.70	0.76	YES	
L0051413	0	0.15860E-06	543566.7	3753932.1	262.8	0.00	1.70	0.76	YES	
L0051414	0	0.15860E-06	543563.1	3753932.1	262.8	0.00	1.70	0.76	YES	
L0051415	0	0.15860E-06	543559.4	3753932.1	262.8	0.00	1.70	0.76	YES	
L0051416	0	0.15860E-06	543555.8	3753932.1	262.8	0.00	1.70	0.76	YES	
L0051417	0	0.15860E-06	543552.1	3753932.0	262.9	0.00	1.70	0.76	YES	
L0051418	0	0.15860E-06	543548.4	3753932.0	262.9	0.00	1.70	0.76	YES	
L0051419	0	0.15860E-06	543544.8	3753932.0	262.9	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0051420	0	0.15860E-06	543541.1	3753932.0	262.9	0.00	1.70	0.76	YES	
L0051421	0	0.15860E-06	543537.5	3753932.0	262.9	0.00	1.70	0.76	YES	
L0051422	0	0.15860E-06	543533.8	3753932.0	262.9	0.00	1.70	0.76	YES	
L0051423	0	0.15860E-06	543530.2	3753932.0	262.9	0.00	1.70	0.76	YES	
L0051424	0	0.15860E-06	543526.5	3753932.0	263.0	0.00	1.70	0.76	YES	
L0051425	0	0.15860E-06	543522.8	3753932.0	263.0	0.00	1.70	0.76	YES	
L0051426	0	0.15860E-06	543519.2	3753932.0	263.1	0.00	1.70	0.76	YES	
L0051427	0	0.15860E-06	543515.5	3753932.0	263.1	0.00	1.70	0.76	YES	
L0051428	0	0.15860E-06	543511.9	3753932.0	263.1	0.00	1.70	0.76	YES	
L0051429	0	0.15860E-06	543508.2	3753931.9	263.2	0.00	1.70	0.76	YES	
L0051430	0	0.15860E-06	543504.5	3753931.9	263.2	0.00	1.70	0.76	YES	
L0051431	0	0.15860E-06	543500.9	3753931.9	263.2	0.00	1.70	0.76	YES	
L0051432	0	0.15860E-06	543497.2	3753931.9	263.3	0.00	1.70	0.76	YES	
L0051433	0	0.15860E-06	543493.6	3753931.9	263.3	0.00	1.70	0.76	YES	

L0051434	0	0.15860E-06	543489.9	3753931.9	263.3	0.00	1.70	0.76	YES	
L0051435	0	0.15860E-06	543486.3	3753931.9	263.4	0.00	1.70	0.76	YES	
L0051436	0	0.15860E-06	543482.6	3753931.9	263.4	0.00	1.70	0.76	YES	
L0051437	0	0.15860E-06	543478.9	3753931.9	263.4	0.00	1.70	0.76	YES	
L0051438	0	0.15860E-06	543475.3	3753931.9	263.4	0.00	1.70	0.76	YES	
L0051439	0	0.15860E-06	543471.6	3753931.9	263.4	0.00	1.70	0.76	YES	
L0051440	0	0.15860E-06	543468.0	3753931.9	263.4	0.00	1.70	0.76	YES	
L0051441	0	0.15860E-06	543464.3	3753931.8	263.5	0.00	1.70	0.76	YES	
L0051442	0	0.15860E-06	543460.7	3753931.8	263.5	0.00	1.70	0.76	YES	
L0051443	0	0.15860E-06	543457.0	3753931.8	263.5	0.00	1.70	0.76	YES	
L0051444	0	0.15860E-06	543453.3	3753931.8	263.5	0.00	1.70	0.76	YES	
L0051445	0	0.15860E-06	543449.7	3753931.8	263.5	0.00	1.70	0.76	YES	
L0051446	0	0.15860E-06	543446.0	3753931.8	263.5	0.00	1.70	0.76	YES	
L0051447	0	0.15860E-06	543442.4	3753931.8	263.6	0.00	1.70	0.76	YES	
L0051448	0	0.15860E-06	543438.7	3753931.8	263.6	0.00	1.70	0.76	YES	
L0051449	0	0.15860E-06	543435.1	3753931.8	263.6	0.00	1.70	0.76	YES	
L0051450	0	0.15860E-06	543431.4	3753931.8	263.6	0.00	1.70	0.76	YES	
L0051451	0	0.15860E-06	543427.7	3753931.8	263.6	0.00	1.70	0.76	YES	
L0051452	0	0.15860E-06	543424.1	3753931.8	263.6	0.00	1.70	0.76	YES	
L0051453	0	0.15860E-06	543420.4	3753931.7	263.7	0.00	1.70	0.76	YES	
L0051454	0	0.15860E-06	543416.8	3753931.7	263.7	0.00	1.70	0.76	YES	
L0051455	0	0.15860E-06	543413.1	3753931.7	263.7	0.00	1.70	0.76	YES	
L0051456	0	0.15860E-06	543409.5	3753931.7	263.7	0.00	1.70	0.76	YES	
L0051457	0	0.15860E-06	543405.8	3753931.7	263.7	0.00	1.70	0.76	YES	
L0051458	0	0.15860E-06	543402.1	3753931.7	263.7	0.00	1.70	0.76	YES	
L0051459	0	0.15860E-06	543398.5	3753931.7	263.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0051460	0	0.15860E-06	543394.8	3753931.7	263.7	0.00	1.70	0.76	YES	
L0051461	0	0.15860E-06	543391.2	3753931.7	263.8	0.00	1.70	0.76	YES	
L0051462	0	0.15860E-06	543387.5	3753931.7	263.8	0.00	1.70	0.76	YES	
L0051463	0	0.15860E-06	543383.8	3753931.7	263.8	0.00	1.70	0.76	YES	
L0051464	0	0.15860E-06	543380.2	3753931.7	263.8	0.00	1.70	0.76	YES	
L0051465	0	0.15860E-06	543376.5	3753931.6	263.8	0.00	1.70	0.76	YES	
L0051466	0	0.15860E-06	543372.9	3753931.6	263.8	0.00	1.70	0.76	YES	
L0051467	0	0.15860E-06	543369.2	3753931.6	263.8	0.00	1.70	0.76	YES	
L0051468	0	0.15860E-06	543365.6	3753931.6	263.8	0.00	1.70	0.76	YES	
L0051469	0	0.15860E-06	543361.9	3753931.6	263.8	0.00	1.70	0.76	YES	
L0051470	0	0.15860E-06	543358.2	3753931.6	263.9	0.00	1.70	0.76	YES	

L0051471	0	0.15860E-06	543354.6	3753931.6	263.9	0.00	1.70	0.76	YES	
L0051472	0	0.15860E-06	543350.9	3753931.6	263.9	0.00	1.70	0.76	YES	
L0051473	0	0.15860E-06	543347.3	3753931.6	263.9	0.00	1.70	0.76	YES	
L0051474	0	0.15860E-06	543343.6	3753931.6	263.9	0.00	1.70	0.76	YES	
L0051475	0	0.15860E-06	543340.0	3753931.6	263.9	0.00	1.70	0.76	YES	
L0051476	0	0.15860E-06	543336.3	3753931.6	263.9	0.00	1.70	0.76	YES	
L0051477	0	0.15860E-06	543332.6	3753931.5	263.9	0.00	1.70	0.76	YES	
L0051478	0	0.15860E-06	543329.0	3753931.5	263.9	0.00	1.70	0.76	YES	
L0051479	0	0.15860E-06	543325.3	3753931.5	263.9	0.00	1.70	0.76	YES	
L0051480	0	0.15860E-06	543321.7	3753931.5	263.9	0.00	1.70	0.76	YES	
L0051481	0	0.15860E-06	543318.0	3753931.5	263.9	0.00	1.70	0.76	YES	
L0051482	0	0.15860E-06	543314.4	3753931.5	263.9	0.00	1.70	0.76	YES	
L0051483	0	0.15860E-06	543310.7	3753931.5	263.9	0.00	1.70	0.76	YES	
L0051484	0	0.15860E-06	543307.0	3753931.5	263.9	0.00	1.70	0.76	YES	
L0051485	0	0.15860E-06	543303.4	3753931.5	263.9	0.00	1.70	0.76	YES	
L0051486	0	0.15860E-06	543299.7	3753931.5	263.9	0.00	1.70	0.76	YES	
L0051487	0	0.15860E-06	543296.1	3753931.5	263.9	0.00	1.70	0.76	YES	
L0051488	0	0.15860E-06	543292.4	3753931.4	263.9	0.00	1.70	0.76	YES	
L0051489	0	0.15860E-06	543288.8	3753931.4	263.9	0.00	1.70	0.76	YES	
L0051490	0	0.15860E-06	543285.1	3753931.4	263.9	0.00	1.70	0.76	YES	
L0051491	0	0.15860E-06	543281.4	3753931.4	263.9	0.00	1.70	0.76	YES	
L0051492	0	0.15860E-06	543277.8	3753931.4	263.9	0.00	1.70	0.76	YES	
L0051493	0	0.15860E-06	543274.1	3753931.4	263.9	0.00	1.70	0.76	YES	
L0051494	0	0.15860E-06	543270.5	3753931.4	263.9	0.00	1.70	0.76	YES	
L0051495	0	0.15860E-06	543266.8	3753931.4	263.9	0.00	1.70	0.76	YES	
L0051496	0	0.15860E-06	543263.1	3753931.4	264.0	0.00	1.70	0.76	YES	
L0051497	0	0.15860E-06	543259.5	3753931.4	264.0	0.00	1.70	0.76	YES	
L0051498	0	0.15860E-06	543255.8	3753931.4	264.0	0.00	1.70	0.76	YES	
L0051499	0	0.15860E-06	543252.2	3753931.4	264.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0051500	0	0.15860E-06	543248.5	3753931.3	264.0	0.00	1.70	0.76	YES	
L0051501	0	0.15860E-06	543244.9	3753931.3	264.0	0.00	1.70	0.76	YES	
L0051502	0	0.15860E-06	543241.2	3753931.3	264.0	0.00	1.70	0.76	YES	
L0051503	0	0.15860E-06	543237.5	3753931.3	264.1	0.00	1.70	0.76	YES	
L0051504	0	0.15860E-06	543233.9	3753931.3	264.1	0.00	1.70	0.76	YES	
L0051505	0	0.15860E-06	543230.2	3753931.3	264.1	0.00	1.70	0.76	YES	
L0051506	0	0.15860E-06	543226.6	3753931.3	264.1	0.00	1.70	0.76	YES	
L0051507	0	0.15860E-06	543222.9	3753931.3	264.1	0.00	1.70	0.76	YES	

L0051508	0	0.15860E-06	543219.3	3753931.3	264.1	0.00	1.70	0.76	YES	
L0051509	0	0.15860E-06	543215.6	3753931.3	264.1	0.00	1.70	0.76	YES	
L0051510	0	0.15860E-06	543211.9	3753931.3	264.1	0.00	1.70	0.76	YES	
L0051511	0	0.15860E-06	543208.3	3753931.3	264.2	0.00	1.70	0.76	YES	
L0051512	0	0.15860E-06	543204.6	3753931.2	264.2	0.00	1.70	0.76	YES	
L0051513	0	0.15860E-06	543201.0	3753931.2	264.2	0.00	1.70	0.76	YES	
L0051514	0	0.15860E-06	543197.3	3753931.2	264.2	0.00	1.70	0.76	YES	
L0051515	0	0.15860E-06	543193.7	3753931.2	264.2	0.00	1.70	0.76	YES	
L0051516	0	0.15860E-06	543190.0	3753931.2	264.2	0.00	1.70	0.76	YES	
L0051517	0	0.15860E-06	543186.3	3753931.2	264.2	0.00	1.70	0.76	YES	
L0051518	0	0.15860E-06	543182.7	3753931.2	264.2	0.00	1.70	0.76	YES	
L0051519	0	0.15860E-06	543179.0	3753931.2	264.2	0.00	1.70	0.76	YES	
L0051520	0	0.15860E-06	543175.4	3753931.2	264.3	0.00	1.70	0.76	YES	
L0051521	0	0.15860E-06	543171.7	3753931.2	264.3	0.00	1.70	0.76	YES	
L0051522	0	0.15860E-06	543168.1	3753931.2	264.3	0.00	1.70	0.76	YES	
L0051523	0	0.15860E-06	543164.4	3753931.2	264.3	0.00	1.70	0.76	YES	
L0051524	0	0.15860E-06	543160.7	3753931.1	264.3	0.00	1.70	0.76	YES	
L0051525	0	0.15860E-06	543157.1	3753931.1	264.3	0.00	1.70	0.76	YES	
L0051526	0	0.15860E-06	543153.4	3753931.1	264.3	0.00	1.70	0.76	YES	
L0051527	0	0.15860E-06	543149.8	3753931.1	264.3	0.00	1.70	0.76	YES	
L0051528	0	0.15860E-06	543146.1	3753931.1	264.3	0.00	1.70	0.76	YES	
L0051529	0	0.15860E-06	543142.4	3753931.1	264.3	0.00	1.70	0.76	YES	
L0051530	0	0.15860E-06	543138.8	3753931.1	264.3	0.00	1.70	0.76	YES	
L0051531	0	0.15860E-06	543135.1	3753931.1	264.3	0.00	1.70	0.76	YES	
L0051532	0	0.15860E-06	543131.5	3753931.1	264.3	0.00	1.70	0.76	YES	
L0051533	0	0.15860E-06	543127.8	3753931.1	264.3	0.00	1.70	0.76	YES	
L0051534	0	0.15860E-06	543124.2	3753931.1	264.4	0.00	1.70	0.76	YES	
L0051535	0	0.15860E-06	543120.5	3753931.1	264.4	0.00	1.70	0.76	YES	
L0051536	0	0.15860E-06	543116.8	3753931.0	264.4	0.00	1.70	0.76	YES	
L0051537	0	0.15860E-06	543113.2	3753931.0	264.4	0.00	1.70	0.76	YES	
L0051538	0	0.15860E-06	543109.5	3753931.0	264.4	0.00	1.70	0.76	YES	
L0051539	0	0.15860E-06	543105.9	3753931.0	264.4	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0051540	0	0.15860E-06	543102.2	3753931.0	264.4	0.00	1.70	0.76	YES	
L0051541	0	0.15860E-06	543098.6	3753931.0	264.4	0.00	1.70	0.76	YES	
L0051542	0	0.15860E-06	543094.9	3753931.0	264.4	0.00	1.70	0.76	YES	
L0051543	0	0.15860E-06	543091.2	3753931.0	264.4	0.00	1.70	0.76	YES	
L0051544	0	0.15860E-06	543087.6	3753931.0	264.4	0.00	1.70	0.76	YES	

L0051545	0	0.15860E-06	543083.9	3753931.0	264.4	0.00	1.70	0.76	YES	
L0051546	0	0.15860E-06	543080.3	3753931.0	264.4	0.00	1.70	0.76	YES	
L0051547	0	0.15860E-06	543076.6	3753931.0	264.4	0.00	1.70	0.76	YES	
L0051548	0	0.15860E-06	543073.0	3753930.9	264.4	0.00	1.70	0.76	YES	
L0051549	0	0.15860E-06	543069.3	3753930.9	264.4	0.00	1.70	0.76	YES	
L0051550	0	0.15860E-06	543065.6	3753930.9	264.4	0.00	1.70	0.76	YES	
L0051551	0	0.15860E-06	543062.0	3753930.9	264.4	0.00	1.70	0.76	YES	
L0051552	0	0.15860E-06	543058.3	3753930.9	264.4	0.00	1.70	0.76	YES	
L0051553	0	0.15860E-06	543054.7	3753930.9	264.4	0.00	1.70	0.76	YES	
L0051554	0	0.15860E-06	543051.0	3753930.9	264.4	0.00	1.70	0.76	YES	
L0051555	0	0.15860E-06	543047.3	3753930.9	264.4	0.00	1.70	0.76	YES	
L0051556	0	0.15860E-06	543043.7	3753930.9	264.4	0.00	1.70	0.76	YES	
L0051557	0	0.15860E-06	543040.0	3753930.9	264.4	0.00	1.70	0.76	YES	
L0051558	0	0.15860E-06	543036.4	3753930.9	264.4	0.00	1.70	0.76	YES	
L0051559	0	0.15860E-06	543032.7	3753930.8	264.4	0.00	1.70	0.76	YES	
L0051560	0	0.15860E-06	543029.1	3753930.8	264.4	0.00	1.70	0.76	YES	
L0051561	0	0.15860E-06	543025.4	3753930.8	264.4	0.00	1.70	0.76	YES	
L0051562	0	0.15860E-06	543021.7	3753930.8	264.4	0.00	1.70	0.76	YES	
L0051563	0	0.15860E-06	543018.1	3753930.8	264.4	0.00	1.70	0.76	YES	
L0051564	0	0.15860E-06	543014.4	3753930.8	264.4	0.00	1.70	0.76	YES	
L0051565	0	0.15860E-06	543010.8	3753930.8	264.4	0.00	1.70	0.76	YES	
L0051566	0	0.15860E-06	543007.1	3753930.8	264.4	0.00	1.70	0.76	YES	
L0051567	0	0.15860E-06	543003.5	3753930.8	264.4	0.00	1.70	0.76	YES	
L0051568	0	0.15860E-06	542999.8	3753930.8	264.4	0.00	1.70	0.76	YES	
L0051569	0	0.15860E-06	542996.1	3753930.8	264.4	0.00	1.70	0.76	YES	
L0051570	0	0.15860E-06	542992.5	3753930.8	264.4	0.00	1.70	0.76	YES	
L0051571	0	0.15860E-06	542988.8	3753930.7	264.4	0.00	1.70	0.76	YES	
L0051572	0	0.15860E-06	542985.2	3753930.7	264.4	0.00	1.70	0.76	YES	
L0051573	0	0.15860E-06	542981.5	3753930.7	264.4	0.00	1.70	0.76	YES	
L0051574	0	0.15860E-06	542977.9	3753930.7	264.4	0.00	1.70	0.76	YES	
L0051575	0	0.15860E-06	542974.2	3753930.7	264.4	0.00	1.70	0.76	YES	
L0051576	0	0.15860E-06	542970.5	3753930.7	264.4	0.00	1.70	0.76	YES	
L0051577	0	0.15860E-06	542966.9	3753930.7	264.4	0.00	1.70	0.76	YES	
L0051578	0	0.15860E-06	542963.2	3753930.7	264.4	0.00	1.70	0.76	YES	
L0051579	0	0.15860E-06	542959.6	3753930.7	264.4	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0051580	0	0.15860E-06	542955.9	3753930.7	264.5	0.00	1.70	0.76	YES	
L0051581	0	0.15860E-06	542952.3	3753930.7	264.5	0.00	1.70	0.76	YES	

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L0051582         0   0.15860E-06  542948.6 3753930.7   264.5     0.00     1.70     0.76     YES
L0051583         0   0.15860E-06  542944.9 3753930.6   264.5     0.00     1.70     0.76     YES
L0051584         0   0.15860E-06  542941.3 3753930.6   264.5     0.00     1.70     0.76     YES
L0051585         0   0.15860E-06  542937.6 3753930.6   264.5     0.00     1.70     0.76     YES
L0051586         0   0.15860E-06  542934.0 3753930.6   264.6     0.00     1.70     0.76     YES
L0051587         0   0.15860E-06  542930.3 3753930.6   264.6     0.00     1.70     0.76     YES
L0051588         0   0.15860E-06  542926.6 3753930.6   264.6     0.00     1.70     0.76     YES
L0051589         0   0.15860E-06  542923.0 3753930.6   264.6     0.00     1.70     0.76     YES
L0051590         0   0.15860E-06  542919.3 3753930.6   264.6     0.00     1.70     0.76     YES
L0051591         0   0.15860E-06  542915.7 3753930.6   264.6     0.00     1.70     0.76     YES
L0051592         0   0.15860E-06  542912.0 3753930.6   264.7     0.00     1.70     0.76     YES
L0051593         0   0.15860E-06  542908.4 3753930.6   264.7     0.00     1.70     0.76     YES
L0051594         0   0.15860E-06  542904.7 3753930.6   264.7     0.00     1.70     0.76     YES
L0051595         0   0.15860E-06  542901.0 3753930.5   264.7     0.00     1.70     0.76     YES
L0051596         0   0.15860E-06  542897.4 3753930.5   264.7     0.00     1.70     0.76     YES
L0051597         0   0.15860E-06  542893.7 3753930.5   264.7     0.00     1.70     0.76     YES
L0051598         0   0.15860E-06  542890.1 3753930.5   264.7     0.00     1.70     0.76     YES
L0051599         0   0.15860E-06  542886.4 3753930.5   264.8     0.00     1.70     0.76     YES
L0051600         0   0.15860E-06  542882.8 3753930.5   264.8     0.00     1.70     0.76     YES
L0051601         0   0.15860E-06  542879.1 3753930.5   264.8     0.00     1.70     0.76     YES
L0051602         0   0.15860E-06  542875.4 3753930.5   264.8     0.00     1.70     0.76     YES
L0051603         0   0.15860E-06  542871.8 3753930.5   264.9     0.00     1.70     0.76     YES
L0051604         0   0.15860E-06  542868.1 3753930.5   264.9     0.00     1.70     0.76     YES
L0051605         0   0.15860E-06  542864.5 3753930.5   264.9     0.00     1.70     0.76     YES
L0051606         0   0.15860E-06  542860.8 3753930.5   264.9     0.00     1.70     0.76     YES
L0051607         0   0.15860E-06  542857.2 3753930.4   264.9     0.00     1.70     0.76     YES
L0051608         0   0.15860E-06  542853.5 3753930.4   265.0     0.00     1.70     0.76     YES
L0051609         0   0.15860E-06  542849.8 3753930.4   265.0     0.00     1.70     0.76     YES
L0051610         0   0.15860E-06  542846.2 3753930.4   265.0     0.00     1.70     0.76     YES
L0051611         0   0.15860E-06  542842.5 3753930.4   265.0     0.00     1.70     0.76     YES
L0051612         0   0.15860E-06  542838.9 3753930.4   265.0     0.00     1.70     0.76     YES
L0051613         0   0.15860E-06  542835.2 3753930.4   265.1     0.00     1.70     0.76     YES
L0051614         0   0.15860E-06  542831.6 3753930.4   265.1     0.00     1.70     0.76     YES
L0051615         0   0.15860E-06  542827.9 3753930.4   265.1     0.00     1.70     0.76     YES
L0051616         0   0.15860E-06  542824.2 3753930.4   265.2     0.00     1.70     0.76     YES
L0051617         0   0.15860E-06  542820.6 3753930.4   265.2     0.00     1.70     0.76     YES
L0051618         0   0.15860E-06  542816.9 3753930.4   265.2     0.00     1.70     0.76     YES
L0051619         0   0.15860E-06  542813.3 3753930.3   265.2     0.00     1.70     0.76     YES
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY

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L0051620         0   0.15860E-06  542809.6 3753930.3   265.3     0.00     1.70     0.76     YES
L0051621         0   0.15860E-06  542805.9 3753930.3   265.3     0.00     1.70     0.76     YES
L0051622         0   0.15860E-06  542802.3 3753930.3   265.3     0.00     1.70     0.76     YES
L0051623         0   0.15860E-06  542798.6 3753930.3   265.4     0.00     1.70     0.76     YES
L0051624         0   0.15860E-06  542795.0 3753930.3   265.4     0.00     1.70     0.76     YES
L0051625         0   0.15860E-06  542791.3 3753930.3   265.4     0.00     1.70     0.76     YES
L0051626         0   0.15860E-06  542787.7 3753930.3   265.4     0.00     1.70     0.76     YES
L0051627         0   0.15860E-06  542784.0 3753930.3   265.4     0.00     1.70     0.76     YES
L0051628         0   0.15860E-06  542780.3 3753930.3   265.5     0.00     1.70     0.76     YES
L0051629         0   0.15860E-06  542776.7 3753930.3   265.5     0.00     1.70     0.76     YES
L0051630         0   0.15860E-06  542773.0 3753930.3   265.5     0.00     1.70     0.76     YES
L0051631         0   0.15860E-06  542769.4 3753930.2   265.5     0.00     1.70     0.76     YES
L0051632         0   0.15860E-06  542765.7 3753930.2   265.6     0.00     1.70     0.76     YES
L0051633         0   0.15860E-06  542762.1 3753930.2   265.6     0.00     1.70     0.76     YES
L0051634         0   0.15860E-06  542758.4 3753930.2   265.6     0.00     1.70     0.76     YES
L0051635         0   0.15860E-06  542754.7 3753930.2   265.6     0.00     1.70     0.76     YES
L0051636         0   0.15860E-06  542751.1 3753930.2   265.7     0.00     1.70     0.76     YES
L0051637         0   0.15860E-06  542747.4 3753930.2   265.7     0.00     1.70     0.76     YES
L0051638         0   0.15860E-06  542743.8 3753930.2   265.7     0.00     1.70     0.76     YES
L0051639         0   0.15860E-06  542740.1 3753930.2   265.7     0.00     1.70     0.76     YES
L0051640         0   0.15860E-06  542736.5 3753930.2   265.8     0.00     1.70     0.76     YES
L0051641         0   0.15860E-06  542732.8 3753930.2   265.8     0.00     1.70     0.76     YES
L0051642         0   0.15860E-06  542729.1 3753930.1   265.8     0.00     1.70     0.76     YES
L0051643         0   0.15860E-06  542725.5 3753930.1   265.8     0.00     1.70     0.76     YES
L0051644         0   0.15860E-06  542721.8 3753930.1   265.9     0.00     1.70     0.76     YES
L0051645         0   0.15860E-06  542718.2 3753930.1   265.9     0.00     1.70     0.76     YES
L0051646         0   0.15860E-06  542714.5 3753930.1   265.9     0.00     1.70     0.76     YES
L0051647         0   0.15860E-06  542710.9 3753930.1   265.9     0.00     1.70     0.76     YES
L0051648         0   0.15860E-06  542707.2 3753930.1   266.0     0.00     1.70     0.76     YES
L0051649         0   0.15860E-06  542703.5 3753930.1   266.0     0.00     1.70     0.76     YES
L0051650         0   0.15860E-06  542699.9 3753930.1   266.0     0.00     1.70     0.76     YES
L0051651         0   0.15860E-06  542696.2 3753930.1   266.1     0.00     1.70     0.76     YES
L0051652         0   0.15860E-06  542692.6 3753930.1   266.1     0.00     1.70     0.76     YES
L0051653         0   0.15860E-06  542688.9 3753930.1   266.1     0.00     1.70     0.76     YES
L0051654         0   0.15860E-06  542685.2 3753930.0   266.1     0.00     1.70     0.76     YES
L0051655         0   0.15860E-06  542681.6 3753930.0   266.2     0.00     1.70     0.76     YES
L0051656         0   0.15860E-06  542677.9 3753930.0   266.2     0.00     1.70     0.76     YES
L0051657         0   0.15860E-06  542674.3 3753930.0   266.2     0.00     1.70     0.76     YES
L0051658         0   0.15860E-06  542670.6 3753930.0   266.2     0.00     1.70     0.76     YES
L0051659         0   0.15860E-06  542667.0 3753930.0   266.2     0.00     1.70     0.76     YES

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 1 yr                          ***        05/23/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 1 yr                                ***        16:16:28
                                                                                                                PAGE  38
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                        *** VOLUME SOURCE DATA ***

            NUMBER EMISSION RATE                  BASE    RELEASE    INIT.    INIT.   URBAN  EMISSION RATE
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SOURCE ID	PART. CATS.	(GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE	SCALAR VARY BY
L0051660	0	0.15860E-06	542663.3	3753930.0	266.2	0.00	1.70	0.76	YES	
L0051661	0	0.15860E-06	542659.6	3753930.0	266.3	0.00	1.70	0.76	YES	
L0051662	0	0.15860E-06	542656.0	3753930.0	266.3	0.00	1.70	0.76	YES	
L0051663	0	0.15860E-06	542652.3	3753930.0	266.3	0.00	1.70	0.76	YES	
L0051664	0	0.15860E-06	542648.7	3753930.0	266.4	0.00	1.70	0.76	YES	
L0051665	0	0.15860E-06	542645.0	3753930.0	266.4	0.00	1.70	0.76	YES	
L0051666	0	0.15860E-06	542641.4	3753929.9	266.4	0.00	1.70	0.76	YES	
L0051667	0	0.15860E-06	542637.7	3753929.9	266.4	0.00	1.70	0.76	YES	
L0051668	0	0.15860E-06	542634.0	3753929.9	266.5	0.00	1.70	0.76	YES	
L0051669	0	0.15860E-06	542630.4	3753929.9	266.5	0.00	1.70	0.76	YES	
L0051670	0	0.15860E-06	542626.7	3753929.9	266.5	0.00	1.70	0.76	YES	
L0051671	0	0.15860E-06	542623.1	3753929.9	266.5	0.00	1.70	0.76	YES	
L0051672	0	0.15860E-06	542619.4	3753929.9	266.5	0.00	1.70	0.76	YES	
L0051673	0	0.15860E-06	542615.8	3753929.9	266.6	0.00	1.70	0.76	YES	
L0051674	0	0.15860E-06	542612.1	3753929.9	266.6	0.00	1.70	0.76	YES	
L0051675	0	0.15860E-06	542608.4	3753929.9	266.6	0.00	1.70	0.76	YES	
L0051676	0	0.15860E-06	542604.8	3753929.9	266.6	0.00	1.70	0.76	YES	
L0051677	0	0.15860E-06	542601.1	3753929.9	266.6	0.00	1.70	0.76	YES	
L0051678	0	0.15860E-06	542597.5	3753929.8	266.6	0.00	1.70	0.76	YES	
L0051679	0	0.15860E-06	542593.8	3753929.8	266.7	0.00	1.70	0.76	YES	
L0051680	0	0.15860E-06	542590.2	3753929.8	266.7	0.00	1.70	0.76	YES	
L0051681	0	0.15860E-06	542586.5	3753929.8	266.7	0.00	1.70	0.76	YES	
L0051682	0	0.15860E-06	542582.8	3753929.8	266.7	0.00	1.70	0.76	YES	
L0051683	0	0.15860E-06	542579.2	3753929.8	266.7	0.00	1.70	0.76	YES	
L0051684	0	0.15860E-06	542575.5	3753929.8	266.8	0.00	1.70	0.76	YES	
L0051685	0	0.15860E-06	542571.9	3753929.8	266.8	0.00	1.70	0.76	YES	
L0051686	0	0.15860E-06	542568.2	3753929.8	266.8	0.00	1.70	0.76	YES	
L0051687	0	0.15860E-06	542564.5	3753929.8	266.8	0.00	1.70	0.76	YES	
L0051688	0	0.15860E-06	542560.9	3753929.8	266.9	0.00	1.70	0.76	YES	
L0051689	0	0.15860E-06	542557.2	3753929.8	266.9	0.00	1.70	0.76	YES	
L0051690	0	0.15860E-06	542553.6	3753929.7	266.9	0.00	1.70	0.76	YES	
L0051691	0	0.15860E-06	542549.9	3753929.7	266.9	0.00	1.70	0.76	YES	
L0051692	0	0.15860E-06	542546.3	3753929.7	266.9	0.00	1.70	0.76	YES	
L0051693	0	0.15860E-06	542542.6	3753929.7	266.9	0.00	1.70	0.76	YES	
L0051694	0	0.15860E-06	542538.9	3753929.7	266.9	0.00	1.70	0.76	YES	
L0051695	0	0.15860E-06	542535.3	3753929.7	267.0	0.00	1.70	0.76	YES	
L0051696	0	0.15860E-06	542531.6	3753929.7	267.0	0.00	1.70	0.76	YES	
L0051697	0	0.15860E-06	542528.0	3753929.7	267.0	0.00	1.70	0.76	YES	
L0051698	0	0.15860E-06	542524.3	3753929.7	267.0	0.00	1.70	0.76	YES	
L0051699	0	0.15860E-06	542520.7	3753929.7	267.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0051700	0	0.15860E-06	542517.0	3753929.7	267.0	0.00	1.70	0.76	YES	
L0051701	0	0.15860E-06	542513.3	3753929.7	267.1	0.00	1.70	0.76	YES	
L0051702	0	0.15860E-06	542509.7	3753929.6	267.1	0.00	1.70	0.76	YES	
L0051703	0	0.15860E-06	542506.0	3753929.6	267.1	0.00	1.70	0.76	YES	
L0051704	0	0.15860E-06	542502.4	3753929.6	267.1	0.00	1.70	0.76	YES	
L0051705	0	0.15860E-06	542498.7	3753929.6	267.1	0.00	1.70	0.76	YES	
L0051706	0	0.15860E-06	542495.1	3753929.6	267.1	0.00	1.70	0.76	YES	
L0051707	0	0.15860E-06	542491.4	3753929.6	267.2	0.00	1.70	0.76	YES	
L0051708	0	0.15860E-06	542487.7	3753929.6	267.2	0.00	1.70	0.76	YES	
L0051709	0	0.15860E-06	542484.1	3753929.6	267.2	0.00	1.70	0.76	YES	
L0051710	0	0.15860E-06	542480.4	3753929.6	267.2	0.00	1.70	0.76	YES	
L0051711	0	0.15860E-06	542476.8	3753929.6	267.2	0.00	1.70	0.76	YES	
L0051712	0	0.15860E-06	542473.1	3753929.6	267.2	0.00	1.70	0.76	YES	
L0051713	0	0.15860E-06	542469.5	3753929.5	267.3	0.00	1.70	0.76	YES	
L0051714	0	0.15860E-06	542465.8	3753929.5	267.3	0.00	1.70	0.76	YES	
L0051715	0	0.15860E-06	542462.1	3753929.5	267.3	0.00	1.70	0.76	YES	
L0051716	0	0.15860E-06	542458.5	3753929.5	267.3	0.00	1.70	0.76	YES	
L0051717	0	0.15860E-06	542454.8	3753929.5	267.3	0.00	1.70	0.76	YES	
L0051718	0	0.15860E-06	542451.2	3753929.5	267.4	0.00	1.70	0.76	YES	
L0051719	0	0.15860E-06	542447.5	3753929.5	267.4	0.00	1.70	0.76	YES	
L0051720	0	0.15860E-06	542443.8	3753929.5	267.4	0.00	1.70	0.76	YES	
L0051721	0	0.15860E-06	542440.2	3753929.5	267.4	0.00	1.70	0.76	YES	
L0051722	0	0.15860E-06	542436.5	3753929.5	267.4	0.00	1.70	0.76	YES	
L0051723	0	0.15860E-06	542432.9	3753929.5	267.4	0.00	1.70	0.76	YES	
L0051724	0	0.15860E-06	542429.2	3753929.5	267.5	0.00	1.70	0.76	YES	
L0051725	0	0.15860E-06	542425.6	3753929.4	267.5	0.00	1.70	0.76	YES	
L0051726	0	0.15860E-06	542421.9	3753929.4	267.5	0.00	1.70	0.76	YES	
L0051727	0	0.15860E-06	542418.2	3753929.4	267.5	0.00	1.70	0.76	YES	
L0051728	0	0.15860E-06	542414.6	3753929.4	267.5	0.00	1.70	0.76	YES	
L0051729	0	0.15860E-06	542410.9	3753929.4	267.5	0.00	1.70	0.76	YES	
L0051730	0	0.15860E-06	542407.3	3753929.4	267.6	0.00	1.70	0.76	YES	
L0051731	0	0.15860E-06	542403.6	3753929.4	267.6	0.00	1.70	0.76	YES	
L0051732	0	0.15860E-06	542400.0	3753929.4	267.6	0.00	1.70	0.76	YES	
L0051733	0	0.15860E-06	542396.3	3753929.4	267.6	0.00	1.70	0.76	YES	
L0051734	0	0.15860E-06	542392.6	3753929.4	267.6	0.00	1.70	0.76	YES	
L0051735	0	0.15860E-06	542389.0	3753929.4	267.7	0.00	1.70	0.76	YES	
L0051736	0	0.15860E-06	542385.3	3753929.4	267.7	0.00	1.70	0.76	YES	
L0051737	0	0.15860E-06	542381.7	3753929.3	267.7	0.00	1.70	0.76	YES	
L0051738	0	0.15860E-06	542378.0	3753929.3	267.7	0.00	1.70	0.76	YES	
L0051739	0	0.15860E-06	542374.4	3753929.3	267.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0051740	0	0.15860E-06	542370.7	3753929.3	267.8	0.00	1.70	0.76	YES	
L0051741	0	0.15860E-06	542367.0	3753929.3	267.8	0.00	1.70	0.76	YES	
L0051742	0	0.15860E-06	542363.4	3753929.3	267.8	0.00	1.70	0.76	YES	
L0051743	0	0.15860E-06	542359.7	3753929.3	267.8	0.00	1.70	0.76	YES	
L0051744	0	0.15860E-06	542356.1	3753929.3	267.8	0.00	1.70	0.76	YES	
L0051745	0	0.15860E-06	542352.4	3753929.3	267.9	0.00	1.70	0.76	YES	
L0051746	0	0.15860E-06	542348.7	3753929.3	267.9	0.00	1.70	0.76	YES	
L0051747	0	0.15860E-06	542345.1	3753929.3	267.9	0.00	1.70	0.76	YES	
L0051748	0	0.15860E-06	542341.4	3753929.3	267.9	0.00	1.70	0.76	YES	
L0051749	0	0.15860E-06	542337.8	3753929.2	267.9	0.00	1.70	0.76	YES	
L0051750	0	0.15860E-06	542334.1	3753929.2	267.9	0.00	1.70	0.76	YES	
L0051751	0	0.15860E-06	542330.5	3753929.2	268.0	0.00	1.70	0.76	YES	
L0051752	0	0.15860E-06	542326.8	3753929.2	268.0	0.00	1.70	0.76	YES	
L0051753	0	0.15860E-06	542323.1	3753929.2	268.0	0.00	1.70	0.76	YES	
L0051754	0	0.15860E-06	542319.5	3753929.2	268.0	0.00	1.70	0.76	YES	
L0051755	0	0.15860E-06	542315.8	3753929.2	268.1	0.00	1.70	0.76	YES	
L0051756	0	0.15860E-06	542312.2	3753929.2	268.1	0.00	1.70	0.76	YES	
L0051757	0	0.15860E-06	542308.5	3753929.2	268.1	0.00	1.70	0.76	YES	
L0051758	0	0.15860E-06	542304.9	3753929.2	268.1	0.00	1.70	0.76	YES	
L0051759	0	0.15860E-06	542301.2	3753929.2	268.1	0.00	1.70	0.76	YES	
L0051760	0	0.15860E-06	542297.5	3753929.2	268.1	0.00	1.70	0.76	YES	
L0051761	0	0.15860E-06	542293.9	3753929.1	268.2	0.00	1.70	0.76	YES	
L0051762	0	0.15860E-06	542290.2	3753929.1	268.2	0.00	1.70	0.76	YES	
L0051763	0	0.15860E-06	542286.6	3753929.1	268.2	0.00	1.70	0.76	YES	
L0051764	0	0.15860E-06	542282.9	3753929.1	268.2	0.00	1.70	0.76	YES	
L0051765	0	0.15860E-06	542279.3	3753929.1	268.2	0.00	1.70	0.76	YES	
L0051766	0	0.15860E-06	542275.6	3753929.1	268.2	0.00	1.70	0.76	YES	
L0051767	0	0.15860E-06	542271.9	3753929.1	268.3	0.00	1.70	0.76	YES	
L0051768	0	0.15860E-06	542268.3	3753929.1	268.3	0.00	1.70	0.76	YES	
L0051769	0	0.15860E-06	542264.6	3753929.1	268.3	0.00	1.70	0.76	YES	
L0051770	0	0.15860E-06	542261.0	3753929.1	268.3	0.00	1.70	0.76	YES	
L0051771	0	0.15860E-06	542257.3	3753929.1	268.4	0.00	1.70	0.76	YES	
L0051772	0	0.15860E-06	542253.7	3753929.1	268.4	0.00	1.70	0.76	YES	
L0051773	0	0.15860E-06	542250.0	3753929.0	268.4	0.00	1.70	0.76	YES	
L0051774	0	0.15860E-06	542246.3	3753929.0	268.4	0.00	1.70	0.76	YES	
L0051775	0	0.15860E-06	542242.7	3753929.0	268.4	0.00	1.70	0.76	YES	
L0051776	0	0.15860E-06	542239.0	3753929.0	268.5	0.00	1.70	0.76	YES	
L0051777	0	0.15860E-06	542235.4	3753929.0	268.5	0.00	1.70	0.76	YES	
L0051778	0	0.15860E-06	542231.7	3753929.0	268.5	0.00	1.70	0.76	YES	
L0051779	0	0.15860E-06	542228.0	3753929.0	268.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0051780	0	0.15860E-06	542224.4	3753929.0	268.6	0.00	1.70	0.76	YES	
L0051781	0	0.15860E-06	542220.7	3753929.0	268.6	0.00	1.70	0.76	YES	
L0051782	0	0.15860E-06	542217.1	3753929.0	268.6	0.00	1.70	0.76	YES	
L0051783	0	0.15860E-06	542213.4	3753929.0	268.6	0.00	1.70	0.76	YES	
L0051784	0	0.15860E-06	542209.8	3753928.9	268.6	0.00	1.70	0.76	YES	
L0051785	0	0.15860E-06	542206.1	3753928.9	268.6	0.00	1.70	0.76	YES	
L0051786	0	0.15860E-06	542202.4	3753928.9	268.6	0.00	1.70	0.76	YES	
L0051787	0	0.15860E-06	542198.8	3753928.9	268.6	0.00	1.70	0.76	YES	
L0051788	0	0.15860E-06	542195.1	3753928.9	268.7	0.00	1.70	0.76	YES	
L0051789	0	0.15860E-06	542191.5	3753928.9	268.7	0.00	1.70	0.76	YES	
L0051790	0	0.15860E-06	542187.8	3753928.9	268.7	0.00	1.70	0.76	YES	
L0051791	0	0.15860E-06	542184.2	3753928.9	268.7	0.00	1.70	0.76	YES	
L0051792	0	0.15860E-06	542180.5	3753928.9	268.7	0.00	1.70	0.76	YES	
L0051793	0	0.15860E-06	542176.8	3753928.9	268.7	0.00	1.70	0.76	YES	
L0051794	0	0.15860E-06	542173.2	3753928.9	268.7	0.00	1.70	0.76	YES	
L0051795	0	0.15860E-06	542169.5	3753928.9	268.7	0.00	1.70	0.76	YES	
L0051796	0	0.15860E-06	542165.9	3753928.8	268.7	0.00	1.70	0.76	YES	
L0051797	0	0.15860E-06	542162.2	3753928.8	268.7	0.00	1.70	0.76	YES	
L0051798	0	0.15860E-06	542158.6	3753928.8	268.7	0.00	1.70	0.76	YES	
L0051799	0	0.15860E-06	542154.9	3753928.8	268.8	0.00	1.70	0.76	YES	
L0051800	0	0.15860E-06	542151.2	3753928.8	268.8	0.00	1.70	0.76	YES	
L0051801	0	0.15860E-06	542147.6	3753928.8	268.8	0.00	1.70	0.76	YES	
L0051802	0	0.15860E-06	542143.9	3753928.8	268.8	0.00	1.70	0.76	YES	
L0051803	0	0.15860E-06	542140.3	3753928.8	268.8	0.00	1.70	0.76	YES	
L0051804	0	0.15860E-06	542136.6	3753928.8	268.8	0.00	1.70	0.76	YES	
L0051805	0	0.15860E-06	542133.0	3753928.8	268.8	0.00	1.70	0.76	YES	
L0051806	0	0.15860E-06	542129.3	3753928.8	268.8	0.00	1.70	0.76	YES	
L0051807	0	0.15860E-06	542125.6	3753928.8	268.8	0.00	1.70	0.76	YES	
L0051808	0	0.15860E-06	542122.0	3753928.7	268.8	0.00	1.70	0.76	YES	
L0051809	0	0.15860E-06	542118.3	3753928.7	268.9	0.00	1.70	0.76	YES	
L0051810	0	0.15860E-06	542114.7	3753928.7	268.9	0.00	1.70	0.76	YES	
L0051811	0	0.15860E-06	542111.0	3753928.7	268.9	0.00	1.70	0.76	YES	
L0051812	0	0.15860E-06	542107.3	3753928.7	268.9	0.00	1.70	0.76	YES	
L0051813	0	0.15860E-06	542103.7	3753928.7	268.9	0.00	1.70	0.76	YES	
L0051814	0	0.15860E-06	542100.0	3753928.7	268.9	0.00	1.70	0.76	YES	
L0051815	0	0.15860E-06	542096.4	3753928.7	268.9	0.00	1.70	0.76	YES	
L0051816	0	0.15860E-06	542092.7	3753928.7	269.0	0.00	1.70	0.76	YES	
L0051817	0	0.15860E-06	542089.1	3753928.7	269.0	0.00	1.70	0.76	YES	

L0051818	0	0.15860E-06	542085.4	3753928.7	269.0	0.00	1.70	0.76	YES	
L0051819	0	0.15860E-06	542081.7	3753928.7	269.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0051820	0	0.15860E-06	542078.1	3753928.6	269.1	0.00	1.70	0.76	YES	
L0051821	0	0.15860E-06	542074.4	3753928.6	269.1	0.00	1.70	0.76	YES	
L0051822	0	0.15860E-06	542070.8	3753928.6	269.1	0.00	1.70	0.76	YES	
L0051823	0	0.15860E-06	542067.1	3753928.6	269.1	0.00	1.70	0.76	YES	
L0051824	0	0.15860E-06	542063.5	3753928.6	269.2	0.00	1.70	0.76	YES	
L0051825	0	0.15860E-06	542059.8	3753928.6	269.2	0.00	1.70	0.76	YES	
L0051826	0	0.15860E-06	542056.1	3753928.6	269.2	0.00	1.70	0.76	YES	
L0051827	0	0.15860E-06	542052.5	3753928.6	269.3	0.00	1.70	0.76	YES	
L0051828	0	0.15860E-06	542048.8	3753928.6	269.3	0.00	1.70	0.76	YES	
L0051829	0	0.15860E-06	542045.2	3753928.6	269.3	0.00	1.70	0.76	YES	
L0051830	0	0.15860E-06	542041.5	3753928.6	269.4	0.00	1.70	0.76	YES	
L0051831	0	0.15860E-06	542037.9	3753928.6	269.4	0.00	1.70	0.76	YES	
L0051832	0	0.12590E-06	542037.5	3753923.3	269.3	0.00	1.70	0.76	YES	
L0051833	0	0.12590E-06	542037.4	3753919.7	269.2	0.00	1.70	0.76	YES	
L0051834	0	0.12590E-06	542037.4	3753916.0	269.1	0.00	1.70	0.76	YES	
L0051835	0	0.12590E-06	542037.4	3753912.4	269.0	0.00	1.70	0.76	YES	
L0051836	0	0.12590E-06	542037.3	3753908.7	268.9	0.00	1.70	0.76	YES	
L0051837	0	0.12590E-06	542037.3	3753905.0	268.8	0.00	1.70	0.76	YES	
L0051838	0	0.12590E-06	542037.3	3753901.4	268.7	0.00	1.70	0.76	YES	
L0051839	0	0.12590E-06	542037.2	3753897.7	268.6	0.00	1.70	0.76	YES	
L0051840	0	0.12590E-06	542037.2	3753894.1	268.6	0.00	1.70	0.76	YES	
L0051841	0	0.12590E-06	542037.2	3753890.4	268.5	0.00	1.70	0.76	YES	
L0051842	0	0.12590E-06	542037.1	3753886.8	268.4	0.00	1.70	0.76	YES	
L0051843	0	0.12590E-06	542037.1	3753883.1	268.3	0.00	1.70	0.76	YES	
L0051844	0	0.12590E-06	542037.1	3753879.4	268.2	0.00	1.70	0.76	YES	
L0051845	0	0.12590E-06	542037.0	3753875.8	268.1	0.00	1.70	0.76	YES	
L0051846	0	0.12590E-06	542037.0	3753872.1	268.0	0.00	1.70	0.76	YES	
L0051847	0	0.12590E-06	542037.0	3753868.5	267.9	0.00	1.70	0.76	YES	
L0051848	0	0.12590E-06	542036.9	3753864.8	267.8	0.00	1.70	0.76	YES	
L0051849	0	0.12590E-06	542036.9	3753861.2	267.7	0.00	1.70	0.76	YES	
L0051850	0	0.12590E-06	542036.9	3753857.5	267.6	0.00	1.70	0.76	YES	
L0051851	0	0.12590E-06	542036.8	3753853.8	267.5	0.00	1.70	0.76	YES	
L0051852	0	0.12590E-06	542036.8	3753850.2	267.4	0.00	1.70	0.76	YES	
L0051853	0	0.12590E-06	542036.8	3753846.5	267.3	0.00	1.70	0.76	YES	
L0051854	0	0.12590E-06	542036.7	3753842.9	267.2	0.00	1.70	0.76	YES	

L0051855	0	0.12590E-06	542036.7	3753839.2	267.1	0.00	1.70	0.76	YES	
L0051856	0	0.12590E-06	542036.7	3753835.6	267.0	0.00	1.70	0.76	YES	
L0051857	0	0.12590E-06	542036.6	3753831.9	266.9	0.00	1.70	0.76	YES	
L0051858	0	0.12590E-06	542036.6	3753828.2	266.8	0.00	1.70	0.76	YES	
L0051859	0	0.12590E-06	542036.6	3753824.6	266.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0051860	0	0.12590E-06	542036.6	3753820.9	266.6	0.00	1.70	0.76	YES	
L0051861	0	0.12590E-06	542036.5	3753817.3	266.5	0.00	1.70	0.76	YES	
L0051862	0	0.12590E-06	542036.5	3753813.6	266.4	0.00	1.70	0.76	YES	
L0051863	0	0.12590E-06	542036.5	3753809.9	266.3	0.00	1.70	0.76	YES	
L0051864	0	0.12590E-06	542036.4	3753806.3	266.2	0.00	1.70	0.76	YES	
L0051865	0	0.12590E-06	542036.4	3753802.6	266.1	0.00	1.70	0.76	YES	
L0051866	0	0.12590E-06	542036.4	3753799.0	266.0	0.00	1.70	0.76	YES	
L0051867	0	0.12590E-06	542036.3	3753795.3	265.9	0.00	1.70	0.76	YES	
L0051868	0	0.12590E-06	542036.3	3753791.7	265.8	0.00	1.70	0.76	YES	
L0051869	0	0.12590E-06	542036.3	3753788.0	265.7	0.00	1.70	0.76	YES	
L0051870	0	0.12590E-06	542036.2	3753784.3	265.6	0.00	1.70	0.76	YES	
L0051871	0	0.12590E-06	542036.2	3753780.7	265.5	0.00	1.70	0.76	YES	
L0051872	0	0.12590E-06	542036.2	3753777.0	265.4	0.00	1.70	0.76	YES	
L0051873	0	0.12590E-06	542036.1	3753773.4	265.4	0.00	1.70	0.76	YES	
L0051874	0	0.12590E-06	542036.1	3753769.7	265.3	0.00	1.70	0.76	YES	
L0051875	0	0.12590E-06	542036.1	3753766.1	265.2	0.00	1.70	0.76	YES	
L0051876	0	0.12590E-06	542036.0	3753762.4	265.1	0.00	1.70	0.76	YES	
L0051877	0	0.12590E-06	542036.0	3753758.7	265.0	0.00	1.70	0.76	YES	
L0051878	0	0.12590E-06	542036.0	3753755.1	264.9	0.00	1.70	0.76	YES	
L0051879	0	0.12590E-06	542035.9	3753751.4	264.8	0.00	1.70	0.76	YES	
L0051880	0	0.12590E-06	542035.9	3753747.8	264.7	0.00	1.70	0.76	YES	
L0051881	0	0.12590E-06	542035.9	3753744.1	264.6	0.00	1.70	0.76	YES	
L0051882	0	0.12590E-06	542035.8	3753740.5	264.6	0.00	1.70	0.76	YES	
L0051883	0	0.12590E-06	542035.8	3753736.8	264.5	0.00	1.70	0.76	YES	
L0051884	0	0.12590E-06	542035.8	3753733.1	264.4	0.00	1.70	0.76	YES	
L0051885	0	0.12590E-06	542035.7	3753729.5	264.3	0.00	1.70	0.76	YES	
L0051886	0	0.12590E-06	542035.7	3753725.8	264.2	0.00	1.70	0.76	YES	
L0051887	0	0.12590E-06	542035.7	3753722.2	264.1	0.00	1.70	0.76	YES	
L0051888	0	0.12590E-06	542035.7	3753718.5	264.0	0.00	1.70	0.76	YES	
L0051889	0	0.12590E-06	542035.6	3753714.9	263.9	0.00	1.70	0.76	YES	
L0051890	0	0.12590E-06	542035.6	3753711.2	263.8	0.00	1.70	0.76	YES	
L0051891	0	0.12590E-06	542035.6	3753707.5	263.7	0.00	1.70	0.76	YES	

L0051892	0	0.12590E-06	542035.5	3753703.9	263.6	0.00	1.70	0.76	YES	
L0051893	0	0.12590E-06	542035.5	3753700.2	263.6	0.00	1.70	0.76	YES	
L0051894	0	0.12590E-06	542035.5	3753696.6	263.5	0.00	1.70	0.76	YES	
L0051895	0	0.12590E-06	542035.4	3753692.9	263.4	0.00	1.70	0.76	YES	
L0051896	0	0.12590E-06	542035.4	3753689.3	263.3	0.00	1.70	0.76	YES	
L0051897	0	0.12590E-06	542035.4	3753685.6	263.2	0.00	1.70	0.76	YES	
L0051898	0	0.12590E-06	542035.3	3753681.9	263.1	0.00	1.70	0.76	YES	
L0051899	0	0.12590E-06	542035.3	3753678.3	263.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0051900	0	0.12590E-06	542035.3	3753674.6	262.9	0.00	1.70	0.76	YES	
L0051901	0	0.12590E-06	542035.2	3753671.0	262.9	0.00	1.70	0.76	YES	
L0051902	0	0.12590E-06	542035.2	3753667.3	262.8	0.00	1.70	0.76	YES	
L0051903	0	0.12590E-06	542035.2	3753663.7	262.7	0.00	1.70	0.76	YES	
L0051904	0	0.12590E-06	542035.1	3753660.0	262.6	0.00	1.70	0.76	YES	
L0051905	0	0.12590E-06	542035.1	3753656.3	262.5	0.00	1.70	0.76	YES	
L0051906	0	0.12590E-06	542035.1	3753652.7	262.5	0.00	1.70	0.76	YES	
L0051907	0	0.12590E-06	542035.0	3753649.0	262.4	0.00	1.70	0.76	YES	
L0051908	0	0.12590E-06	542035.0	3753645.4	262.3	0.00	1.70	0.76	YES	
L0051909	0	0.12590E-06	542035.0	3753641.7	262.2	0.00	1.70	0.76	YES	
L0051910	0	0.12590E-06	542034.9	3753638.0	262.2	0.00	1.70	0.76	YES	
L0051911	0	0.12590E-06	542034.9	3753634.4	262.1	0.00	1.70	0.76	YES	
L0051912	0	0.12590E-06	542034.9	3753630.7	262.0	0.00	1.70	0.76	YES	
L0051913	0	0.12590E-06	542034.9	3753627.1	261.9	0.00	1.70	0.76	YES	
L0051914	0	0.12590E-06	542034.8	3753623.4	261.9	0.00	1.70	0.76	YES	
L0051915	0	0.12590E-06	542034.8	3753619.8	261.8	0.00	1.70	0.76	YES	
L0051916	0	0.12590E-06	542034.8	3753616.1	261.7	0.00	1.70	0.76	YES	
L0051917	0	0.12590E-06	542034.7	3753612.4	261.6	0.00	1.70	0.76	YES	
L0051918	0	0.12590E-06	542034.7	3753608.8	261.6	0.00	1.70	0.76	YES	
L0051919	0	0.12590E-06	542034.7	3753605.1	261.5	0.00	1.70	0.76	YES	
L0051920	0	0.12590E-06	542034.6	3753601.5	261.4	0.00	1.70	0.76	YES	
L0051921	0	0.12590E-06	542034.6	3753597.8	261.3	0.00	1.70	0.76	YES	
L0051922	0	0.12590E-06	542034.6	3753594.2	261.2	0.00	1.70	0.76	YES	
L0051923	0	0.12590E-06	542034.5	3753590.5	261.2	0.00	1.70	0.76	YES	
L0051924	0	0.12590E-06	542034.5	3753586.8	261.1	0.00	1.70	0.76	YES	
L0051925	0	0.12590E-06	542034.5	3753583.2	261.0	0.00	1.70	0.76	YES	
L0051926	0	0.12590E-06	542034.4	3753579.5	260.9	0.00	1.70	0.76	YES	
L0051927	0	0.12590E-06	542034.4	3753575.9	260.8	0.00	1.70	0.76	YES	
L0051928	0	0.12590E-06	542034.4	3753572.2	260.8	0.00	1.70	0.76	YES	

L0051929	0	0.12590E-06	542034.3	3753568.6	260.7	0.00	1.70	0.76	YES	
L0051930	0	0.12590E-06	542034.3	3753564.9	260.6	0.00	1.70	0.76	YES	
L0051931	0	0.12590E-06	542034.3	3753561.2	260.5	0.00	1.70	0.76	YES	
L0051932	0	0.12590E-06	542034.2	3753557.6	260.4	0.00	1.70	0.76	YES	
L0051933	0	0.12590E-06	542034.2	3753553.9	260.4	0.00	1.70	0.76	YES	
L0051934	0	0.12590E-06	542034.2	3753550.3	260.3	0.00	1.70	0.76	YES	
L0051935	0	0.12590E-06	542034.1	3753546.6	260.2	0.00	1.70	0.76	YES	
L0051936	0	0.12590E-06	542034.1	3753543.0	260.1	0.00	1.70	0.76	YES	
L0051937	0	0.12590E-06	542034.1	3753539.3	260.1	0.00	1.70	0.76	YES	
L0051938	0	0.12590E-06	542034.0	3753535.6	260.0	0.00	1.70	0.76	YES	
L0051939	0	0.12590E-06	542034.0	3753532.0	259.9	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0051940	0	0.12590E-06	542034.0	3753528.3	259.8	0.00	1.70	0.76	YES	
L0051941	0	0.12590E-06	542034.0	3753524.7	259.7	0.00	1.70	0.76	YES	
L0051942	0	0.12590E-06	542033.9	3753521.0	259.6	0.00	1.70	0.76	YES	
L0051943	0	0.12590E-06	542033.9	3753517.4	259.6	0.00	1.70	0.76	YES	
L0051944	0	0.12590E-06	542033.9	3753513.7	259.5	0.00	1.70	0.76	YES	
L0051945	0	0.12590E-06	542033.8	3753510.0	259.4	0.00	1.70	0.76	YES	
L0051946	0	0.12590E-06	542033.8	3753506.4	259.3	0.00	1.70	0.76	YES	
L0051947	0	0.12590E-06	542033.8	3753502.7	259.2	0.00	1.70	0.76	YES	
L0051948	0	0.12590E-06	542033.7	3753499.1	259.2	0.00	1.70	0.76	YES	
L0051949	0	0.12590E-06	542033.7	3753495.4	259.1	0.00	1.70	0.76	YES	
L0051950	0	0.12590E-06	542033.7	3753491.8	259.0	0.00	1.70	0.76	YES	
L0051951	0	0.12590E-06	542033.6	3753488.1	258.9	0.00	1.70	0.76	YES	
L0051952	0	0.12590E-06	542033.6	3753484.4	258.8	0.00	1.70	0.76	YES	
L0051953	0	0.12590E-06	542033.6	3753480.8	258.8	0.00	1.70	0.76	YES	
L0051954	0	0.12590E-06	542033.5	3753477.1	258.7	0.00	1.70	0.76	YES	
L0051955	0	0.12590E-06	542033.5	3753473.5	258.6	0.00	1.70	0.76	YES	
L0051956	0	0.12590E-06	542033.5	3753469.8	258.5	0.00	1.70	0.76	YES	
L0051957	0	0.12590E-06	542033.4	3753466.1	258.4	0.00	1.70	0.76	YES	
L0051958	0	0.12590E-06	542033.4	3753462.5	258.3	0.00	1.70	0.76	YES	
L0051959	0	0.12590E-06	542033.4	3753458.8	258.2	0.00	1.70	0.76	YES	
L0051960	0	0.12590E-06	542033.3	3753455.2	258.2	0.00	1.70	0.76	YES	
L0051961	0	0.12590E-06	542033.3	3753451.5	258.1	0.00	1.70	0.76	YES	
L0051962	0	0.12590E-06	542033.3	3753447.9	258.0	0.00	1.70	0.76	YES	
L0051963	0	0.12590E-06	542033.2	3753444.2	257.9	0.00	1.70	0.76	YES	
L0051964	0	0.12590E-06	542033.2	3753440.5	257.8	0.00	1.70	0.76	YES	
L0051965	0	0.12590E-06	542033.2	3753436.9	257.7	0.00	1.70	0.76	YES	

L0051966	0	0.12590E-06	542033.1	3753433.2	257.6	0.00	1.70	0.76	YES	
L0051967	0	0.12590E-06	542033.1	3753429.6	257.5	0.00	1.70	0.76	YES	
L0051968	0	0.12590E-06	542033.1	3753425.9	257.4	0.00	1.70	0.76	YES	
L0051969	0	0.12590E-06	542033.1	3753422.3	257.4	0.00	1.70	0.76	YES	
L0051970	0	0.12590E-06	542033.0	3753418.6	257.3	0.00	1.70	0.76	YES	
L0051971	0	0.12590E-06	542033.0	3753414.9	257.2	0.00	1.70	0.76	YES	
L0051972	0	0.12590E-06	542033.0	3753411.3	257.1	0.00	1.70	0.76	YES	
L0051973	0	0.12590E-06	542032.9	3753407.6	257.0	0.00	1.70	0.76	YES	
L0051974	0	0.12590E-06	542032.9	3753404.0	256.9	0.00	1.70	0.76	YES	
L0051975	0	0.12590E-06	542032.9	3753400.3	256.8	0.00	1.70	0.76	YES	
L0051976	0	0.12590E-06	542032.8	3753396.7	256.7	0.00	1.70	0.76	YES	
L0051977	0	0.12590E-06	542032.8	3753393.0	256.6	0.00	1.70	0.76	YES	
L0051978	0	0.12590E-06	542032.8	3753389.3	256.5	0.00	1.70	0.76	YES	
L0051979	0	0.12590E-06	542032.7	3753385.7	256.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0051980	0	0.12590E-06	542032.7	3753382.0	256.4	0.00	1.70	0.76	YES	
L0051981	0	0.12590E-06	542032.7	3753378.4	256.3	0.00	1.70	0.76	YES	
L0051982	0	0.12590E-06	542032.6	3753374.7	256.2	0.00	1.70	0.76	YES	
L0051983	0	0.12590E-06	542032.6	3753371.1	256.1	0.00	1.70	0.76	YES	
L0051984	0	0.12590E-06	542032.6	3753367.4	256.1	0.00	1.70	0.76	YES	
L0051985	0	0.12590E-06	542032.5	3753363.7	256.0	0.00	1.70	0.76	YES	
L0051986	0	0.12590E-06	542032.5	3753360.1	255.9	0.00	1.70	0.76	YES	
L0051987	0	0.12590E-06	542032.5	3753356.4	255.8	0.00	1.70	0.76	YES	
L0051988	0	0.12590E-06	542032.4	3753352.8	255.7	0.00	1.70	0.76	YES	
L0051989	0	0.12590E-06	542032.4	3753349.1	255.6	0.00	1.70	0.76	YES	
L0051990	0	0.12590E-06	542032.4	3753345.5	255.5	0.00	1.70	0.76	YES	
L0051991	0	0.12590E-06	542032.3	3753341.8	255.4	0.00	1.70	0.76	YES	
L0051992	0	0.12590E-06	542032.3	3753338.1	255.3	0.00	1.70	0.76	YES	
L0051993	0	0.12590E-06	542032.3	3753334.5	255.2	0.00	1.70	0.76	YES	
L0051994	0	0.12590E-06	542032.2	3753330.8	255.1	0.00	1.70	0.76	YES	
L0051995	0	0.12590E-06	542032.2	3753327.2	255.0	0.00	1.70	0.76	YES	
L0051996	0	0.12590E-06	542032.2	3753323.5	254.9	0.00	1.70	0.76	YES	
L0051997	0	0.12590E-06	542032.2	3753319.8	254.8	0.00	1.70	0.76	YES	
L0051998	0	0.12590E-06	542032.1	3753316.2	254.7	0.00	1.70	0.76	YES	
L0051999	0	0.12590E-06	542032.1	3753312.5	254.6	0.00	1.70	0.76	YES	
L0052000	0	0.12590E-06	542032.1	3753308.9	254.5	0.00	1.70	0.76	YES	
L0052001	0	0.12590E-06	542032.0	3753305.2	254.4	0.00	1.70	0.76	YES	
L0052002	0	0.12590E-06	542032.0	3753301.6	254.2	0.00	1.70	0.76	YES	

L0052003	0	0.12590E-06	542032.0	3753297.9	254.2	0.00	1.70	0.76	YES	
L0052004	0	0.12590E-06	542031.9	3753294.2	254.1	0.00	1.70	0.76	YES	
L0052005	0	0.12590E-06	542031.9	3753290.6	254.0	0.00	1.70	0.76	YES	
L0052006	0	0.12590E-06	542031.9	3753286.9	253.9	0.00	1.70	0.76	YES	
L0052007	0	0.12590E-06	542031.8	3753283.3	253.8	0.00	1.70	0.76	YES	
L0052008	0	0.12590E-06	542031.8	3753279.6	253.7	0.00	1.70	0.76	YES	
L0052009	0	0.12590E-06	542031.8	3753276.0	253.6	0.00	1.70	0.76	YES	
L0052010	0	0.12590E-06	542031.7	3753272.3	253.5	0.00	1.70	0.76	YES	
L0052011	0	0.12590E-06	542031.7	3753268.6	253.5	0.00	1.70	0.76	YES	
L0052012	0	0.12590E-06	542031.7	3753265.0	253.4	0.00	1.70	0.76	YES	
L0052013	0	0.12590E-06	542031.6	3753261.3	253.3	0.00	1.70	0.76	YES	
L0052014	0	0.12590E-06	542031.6	3753257.7	253.2	0.00	1.70	0.76	YES	
L0052015	0	0.12590E-06	542031.6	3753254.0	253.1	0.00	1.70	0.76	YES	
L0052016	0	0.12590E-06	542031.5	3753250.4	253.1	0.00	1.70	0.76	YES	
L0052017	0	0.12590E-06	542031.5	3753246.7	253.0	0.00	1.70	0.76	YES	
L0052018	0	0.12590E-06	542031.5	3753243.0	252.9	0.00	1.70	0.76	YES	
L0052019	0	0.12590E-06	542031.4	3753239.4	252.8	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0052020	0	0.12590E-06	542031.4	3753235.7	252.7	0.00	1.70	0.76	YES	
L0052021	0	0.12590E-06	542031.4	3753232.1	252.7	0.00	1.70	0.76	YES	
L0052022	0	0.12590E-06	542031.4	3753228.4	252.6	0.00	1.70	0.76	YES	
L0052023	0	0.12590E-06	542031.3	3753224.8	252.5	0.00	1.70	0.76	YES	
L0052024	0	0.12590E-06	542031.3	3753221.1	252.4	0.00	1.70	0.76	YES	
L0052025	0	0.12590E-06	542031.3	3753217.4	252.4	0.00	1.70	0.76	YES	
L0052026	0	0.12590E-06	542031.2	3753213.8	252.3	0.00	1.70	0.76	YES	
L0052027	0	0.12590E-06	542031.2	3753210.1	252.2	0.00	1.70	0.76	YES	
L0052028	0	0.12590E-06	542031.2	3753206.5	252.1	0.00	1.70	0.76	YES	
L0052029	0	0.12590E-06	542031.1	3753202.8	252.1	0.00	1.70	0.76	YES	
L0052030	0	0.12590E-06	542031.1	3753199.2	252.0	0.00	1.70	0.76	YES	
L0052031	0	0.12590E-06	542031.1	3753195.5	251.9	0.00	1.70	0.76	YES	
L0052032	0	0.12590E-06	542031.0	3753191.8	251.8	0.00	1.70	0.76	YES	
L0052033	0	0.12590E-06	542031.0	3753188.2	251.8	0.00	1.70	0.76	YES	
L0052034	0	0.12590E-06	542031.0	3753184.5	251.7	0.00	1.70	0.76	YES	
L0052035	0	0.12590E-06	542030.9	3753180.9	251.6	0.00	1.70	0.76	YES	
L0052036	0	0.12590E-06	542030.9	3753177.2	251.5	0.00	1.70	0.76	YES	
L0052037	0	0.12590E-06	542030.9	3753173.6	251.4	0.00	1.70	0.76	YES	
L0052038	0	0.12590E-06	542030.8	3753169.9	251.4	0.00	1.70	0.76	YES	
L0052039	0	0.12590E-06	542030.8	3753166.2	251.3	0.00	1.70	0.76	YES	

L0052040	0	0.12590E-06	542030.8	3753162.6	251.2	0.00	1.70	0.76	YES	
L0052041	0	0.12590E-06	542030.7	3753158.9	251.1	0.00	1.70	0.76	YES	
L0052042	0	0.12590E-06	542030.7	3753155.3	251.0	0.00	1.70	0.76	YES	
L0052043	0	0.12590E-06	542030.7	3753151.6	250.9	0.00	1.70	0.76	YES	
L0052044	0	0.12590E-06	542030.6	3753147.9	250.9	0.00	1.70	0.76	YES	
L0052045	0	0.12590E-06	542030.6	3753144.3	250.8	0.00	1.70	0.76	YES	
L0052046	0	0.12590E-06	542030.6	3753140.6	250.6	0.00	1.70	0.76	YES	
L0052047	0	0.12590E-06	542030.5	3753137.0	250.5	0.00	1.70	0.76	YES	
L0052048	0	0.12590E-06	542030.5	3753133.3	250.4	0.00	1.70	0.76	YES	
L0052049	0	0.12590E-06	542030.5	3753129.7	250.3	0.00	1.70	0.76	YES	
L0052050	0	0.12590E-06	542030.5	3753126.0	250.2	0.00	1.70	0.76	YES	
L0052051	0	0.12590E-06	542030.4	3753122.3	250.1	0.00	1.70	0.76	YES	
L0052052	0	0.32320E-06	543901.7	3755432.3	288.3	0.00	1.70	0.76	YES	
L0052053	0	0.32320E-06	543905.4	3755432.3	288.3	0.00	1.70	0.76	YES	
L0052054	0	0.32320E-06	543909.0	3755432.3	288.2	0.00	1.70	0.76	YES	
L0052055	0	0.32320E-06	543912.7	3755432.3	288.2	0.00	1.70	0.76	YES	
L0052056	0	0.32320E-06	543916.3	3755432.3	288.2	0.00	1.70	0.76	YES	
L0052057	0	0.32320E-06	543920.0	3755432.3	288.1	0.00	1.70	0.76	YES	
L0052058	0	0.32320E-06	543923.7	3755432.3	288.1	0.00	1.70	0.76	YES	
L0052059	0	0.32320E-06	543927.3	3755432.3	288.1	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0052060	0	0.32320E-06	543931.0	3755432.3	288.0	0.00	1.70	0.76	YES	
L0052061	0	0.32320E-06	543934.6	3755432.3	288.0	0.00	1.70	0.76	YES	
L0052062	0	0.32320E-06	543938.3	3755432.3	287.9	0.00	1.70	0.76	YES	
L0052063	0	0.32320E-06	543941.9	3755432.3	287.9	0.00	1.70	0.76	YES	
L0052064	0	0.32320E-06	543945.6	3755432.3	287.9	0.00	1.70	0.76	YES	
L0052065	0	0.32320E-06	543949.3	3755432.3	287.8	0.00	1.70	0.76	YES	
L0052066	0	0.32320E-06	543952.9	3755432.3	287.8	0.00	1.70	0.76	YES	
L0052067	0	0.32320E-06	543956.6	3755432.3	287.8	0.00	1.70	0.76	YES	
L0052068	0	0.32320E-06	543960.2	3755432.3	287.7	0.00	1.70	0.76	YES	
L0052069	0	0.32320E-06	543963.9	3755432.3	287.7	0.00	1.70	0.76	YES	
L0052070	0	0.32320E-06	543967.5	3755432.3	287.7	0.00	1.70	0.76	YES	
L0052071	0	0.32320E-06	543971.2	3755432.3	287.7	0.00	1.70	0.76	YES	
L0052072	0	0.32320E-06	543974.9	3755432.3	287.7	0.00	1.70	0.76	YES	
L0052073	0	0.32320E-06	543978.5	3755432.3	287.7	0.00	1.70	0.76	YES	
L0052074	0	0.32320E-06	543982.2	3755432.3	287.7	0.00	1.70	0.76	YES	
L0052075	0	0.32320E-06	543985.8	3755432.3	287.7	0.00	1.70	0.76	YES	
L0052076	0	0.32320E-06	543989.5	3755432.3	287.7	0.00	1.70	0.76	YES	

L0052077	0	0.32320E-06	543993.2	3755432.3	287.7	0.00	1.70	0.76	YES	
L0052078	0	0.32320E-06	543996.8	3755432.3	287.7	0.00	1.70	0.76	YES	
L0052079	0	0.32320E-06	544000.5	3755432.3	287.7	0.00	1.70	0.76	YES	
L0052080	0	0.32320E-06	544004.1	3755432.3	287.7	0.00	1.70	0.76	YES	
L0052081	0	0.32320E-06	544007.8	3755432.3	287.7	0.00	1.70	0.76	YES	
L0052082	0	0.32320E-06	544011.4	3755432.3	287.6	0.00	1.70	0.76	YES	
L0052083	0	0.32320E-06	544015.1	3755432.3	287.6	0.00	1.70	0.76	YES	
L0052084	0	0.32320E-06	544018.8	3755432.3	287.6	0.00	1.70	0.76	YES	
L0052085	0	0.32320E-06	544022.4	3755432.3	287.6	0.00	1.70	0.76	YES	
L0052086	0	0.32320E-06	544026.1	3755432.3	287.6	0.00	1.70	0.76	YES	
L0052087	0	0.32320E-06	544029.7	3755432.3	287.6	0.00	1.70	0.76	YES	
L0052088	0	0.32320E-06	544033.4	3755432.3	287.6	0.00	1.70	0.76	YES	
L0052089	0	0.32320E-06	544037.0	3755432.3	287.6	0.00	1.70	0.76	YES	
L0052090	0	0.32320E-06	544040.7	3755432.3	287.6	0.00	1.70	0.76	YES	
L0052091	0	0.32320E-06	544044.4	3755432.3	287.6	0.00	1.70	0.76	YES	
L0052092	0	0.32320E-06	544048.0	3755432.3	287.6	0.00	1.70	0.76	YES	
L0052093	0	0.32320E-06	544051.7	3755432.3	287.6	0.00	1.70	0.76	YES	
L0052094	0	0.32320E-06	544055.3	3755432.3	287.6	0.00	1.70	0.76	YES	
L0052095	0	0.32320E-06	544059.0	3755432.3	287.6	0.00	1.70	0.76	YES	
L0052096	0	0.32320E-06	544062.6	3755432.3	287.6	0.00	1.70	0.76	YES	
L0052097	0	0.32320E-06	544066.3	3755432.3	287.6	0.00	1.70	0.76	YES	
L0052098	0	0.32320E-06	544070.0	3755432.3	287.6	0.00	1.70	0.76	YES	
L0052099	0	0.32320E-06	544073.6	3755432.3	287.6	0.00	1.70	0.76	YES	

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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0052100	0	0.32320E-06	544077.3	3755432.3	287.6	0.00	1.70	0.76	YES	
L0052101	0	0.32320E-06	544080.9	3755432.3	287.6	0.00	1.70	0.76	YES	
L0052102	0	0.32320E-06	544084.6	3755432.3	287.5	0.00	1.70	0.76	YES	
L0052103	0	0.32320E-06	544088.2	3755432.3	287.5	0.00	1.70	0.76	YES	
L0052104	0	0.32320E-06	544091.9	3755432.3	287.5	0.00	1.70	0.76	YES	
L0052105	0	0.32320E-06	544095.6	3755432.3	287.5	0.00	1.70	0.76	YES	
L0052106	0	0.32320E-06	544099.2	3755432.2	287.5	0.00	1.70	0.76	YES	
L0052107	0	0.32320E-06	544102.9	3755432.2	287.5	0.00	1.70	0.76	YES	
L0052108	0	0.32320E-06	544106.5	3755432.2	287.5	0.00	1.70	0.76	YES	
L0052109	0	0.32320E-06	544110.2	3755432.2	287.4	0.00	1.70	0.76	YES	
L0052110	0	0.32320E-06	544113.9	3755432.2	287.4	0.00	1.70	0.76	YES	
L0052111	0	0.32320E-06	544117.5	3755432.2	287.4	0.00	1.70	0.76	YES	
L0052112	0	0.32320E-06	544121.2	3755432.2	287.4	0.00	1.70	0.76	YES	
L0052113	0	0.32320E-06	544124.8	3755432.2	287.4	0.00	1.70	0.76	YES	

L0052114	0	0.32320E-06	544128.5	3755432.2	287.4	0.00	1.70	0.76	YES	
L0052115	0	0.32320E-06	544132.1	3755432.2	287.4	0.00	1.70	0.76	YES	
L0052116	0	0.32320E-06	544135.8	3755432.2	287.3	0.00	1.70	0.76	YES	
L0052117	0	0.32320E-06	544139.5	3755432.2	287.3	0.00	1.70	0.76	YES	
L0052118	0	0.32320E-06	544143.1	3755432.2	287.3	0.00	1.70	0.76	YES	
L0052119	0	0.32320E-06	544146.8	3755432.2	287.3	0.00	1.70	0.76	YES	
L0052120	0	0.32320E-06	544150.4	3755432.2	287.3	0.00	1.70	0.76	YES	
L0052121	0	0.32320E-06	544154.1	3755432.2	287.3	0.00	1.70	0.76	YES	
L0052122	0	0.32320E-06	544157.7	3755432.2	287.3	0.00	1.70	0.76	YES	
L0052123	0	0.32320E-06	544161.4	3755432.2	287.2	0.00	1.70	0.76	YES	
L0052124	0	0.32320E-06	544165.1	3755432.2	287.2	0.00	1.70	0.76	YES	
L0052125	0	0.32320E-06	544168.7	3755432.2	287.2	0.00	1.70	0.76	YES	
L0052126	0	0.32320E-06	544172.4	3755432.2	287.2	0.00	1.70	0.76	YES	
L0052127	0	0.32320E-06	544176.0	3755432.2	287.2	0.00	1.70	0.76	YES	
L0052128	0	0.32320E-06	544179.7	3755432.2	287.2	0.00	1.70	0.76	YES	
L0052129	0	0.32320E-06	544183.3	3755432.2	287.1	0.00	1.70	0.76	YES	
L0052130	0	0.32320E-06	544187.0	3755432.2	287.1	0.00	1.70	0.76	YES	
L0052131	0	0.32320E-06	544190.7	3755432.2	287.1	0.00	1.70	0.76	YES	
L0052132	0	0.32320E-06	544194.3	3755432.2	287.1	0.00	1.70	0.76	YES	
L0052133	0	0.32320E-06	544198.0	3755432.2	287.1	0.00	1.70	0.76	YES	
L0052134	0	0.32320E-06	544201.6	3755432.2	287.1	0.00	1.70	0.76	YES	
L0052135	0	0.32320E-06	544205.3	3755432.2	287.1	0.00	1.70	0.76	YES	
L0052136	0	0.32320E-06	544208.9	3755432.2	287.1	0.00	1.70	0.76	YES	
L0052137	0	0.32320E-06	544212.6	3755432.2	287.0	0.00	1.70	0.76	YES	
L0052138	0	0.32320E-06	544216.3	3755432.2	287.0	0.00	1.70	0.76	YES	
L0052139	0	0.32320E-06	544219.9	3755432.2	287.0	0.00	1.70	0.76	YES	

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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0052140	0	0.32320E-06	544223.6	3755432.2	287.0	0.00	1.70	0.76	YES	
L0052141	0	0.32320E-06	544227.2	3755432.2	287.0	0.00	1.70	0.76	YES	
L0052142	0	0.32320E-06	544230.9	3755432.2	286.9	0.00	1.70	0.76	YES	
L0052143	0	0.32320E-06	544234.6	3755432.2	286.9	0.00	1.70	0.76	YES	
L0052144	0	0.32320E-06	544238.2	3755432.2	286.9	0.00	1.70	0.76	YES	
L0052145	0	0.32320E-06	544241.9	3755432.2	286.9	0.00	1.70	0.76	YES	
L0052146	0	0.32320E-06	544245.5	3755432.2	286.9	0.00	1.70	0.76	YES	
L0052147	0	0.32320E-06	544249.2	3755432.2	286.9	0.00	1.70	0.76	YES	
L0052148	0	0.32320E-06	544252.8	3755432.2	286.8	0.00	1.70	0.76	YES	
L0052149	0	0.32320E-06	544256.5	3755432.2	286.8	0.00	1.70	0.76	YES	
L0052150	0	0.32320E-06	544260.2	3755432.2	286.8	0.00	1.70	0.76	YES	

L0052151	0	0.32320E-06	544263.8	3755432.2	286.8	0.00	1.70	0.76	YES	
L0052152	0	0.32320E-06	544267.5	3755432.2	286.8	0.00	1.70	0.76	YES	
L0052153	0	0.32320E-06	544271.1	3755432.2	286.7	0.00	1.70	0.76	YES	
L0052154	0	0.32320E-06	544274.8	3755432.2	286.7	0.00	1.70	0.76	YES	
L0052155	0	0.32320E-06	544278.4	3755432.2	286.7	0.00	1.70	0.76	YES	
L0052156	0	0.32320E-06	544282.1	3755432.2	286.7	0.00	1.70	0.76	YES	
L0052157	0	0.32320E-06	544285.8	3755432.2	286.6	0.00	1.70	0.76	YES	
L0052158	0	0.32320E-06	544289.4	3755432.2	286.6	0.00	1.70	0.76	YES	
L0052159	0	0.32320E-06	544293.1	3755432.2	286.6	0.00	1.70	0.76	YES	
L0052160	0	0.32320E-06	544296.7	3755432.2	286.6	0.00	1.70	0.76	YES	
L0052161	0	0.32320E-06	544300.4	3755432.2	286.6	0.00	1.70	0.76	YES	
L0052162	0	0.32320E-06	544304.0	3755432.2	286.5	0.00	1.70	0.76	YES	
L0052163	0	0.32320E-06	544307.7	3755432.2	286.5	0.00	1.70	0.76	YES	
L0052164	0	0.32320E-06	544311.4	3755432.2	286.5	0.00	1.70	0.76	YES	
L0052165	0	0.32320E-06	544315.0	3755432.2	286.5	0.00	1.70	0.76	YES	
L0052166	0	0.32320E-06	544318.7	3755432.2	286.4	0.00	1.70	0.76	YES	
L0052167	0	0.32320E-06	544322.3	3755432.2	286.4	0.00	1.70	0.76	YES	
L0052168	0	0.32320E-06	544326.0	3755432.2	286.4	0.00	1.70	0.76	YES	
L0052169	0	0.32320E-06	544329.7	3755432.2	286.4	0.00	1.70	0.76	YES	
L0052170	0	0.32320E-06	544333.3	3755432.2	286.4	0.00	1.70	0.76	YES	
L0052171	0	0.32320E-06	544337.0	3755432.2	286.3	0.00	1.70	0.76	YES	
L0052172	0	0.32320E-06	544340.6	3755432.2	286.3	0.00	1.70	0.76	YES	
L0052173	0	0.32320E-06	544344.3	3755432.2	286.3	0.00	1.70	0.76	YES	
L0052174	0	0.32320E-06	544347.9	3755432.2	286.3	0.00	1.70	0.76	YES	
L0052175	0	0.32320E-06	544351.6	3755432.1	286.2	0.00	1.70	0.76	YES	
L0052176	0	0.32320E-06	544355.3	3755432.1	286.2	0.00	1.70	0.76	YES	
L0052177	0	0.32270E-06	543961.9	3755201.2	284.0	0.00	1.70	0.76	YES	
L0052178	0	0.32270E-06	543965.3	3755202.6	284.0	0.00	1.70	0.76	YES	
L0052179	0	0.32270E-06	543968.6	3755204.1	284.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0052180	0	0.32270E-06	543972.0	3755205.5	284.0	0.00	1.70	0.76	YES	
L0052181	0	0.32270E-06	543975.4	3755206.9	284.0	0.00	1.70	0.76	YES	
L0052182	0	0.32270E-06	543978.7	3755208.3	284.0	0.00	1.70	0.76	YES	
L0052183	0	0.32270E-06	543982.1	3755209.8	283.9	0.00	1.70	0.76	YES	
L0052184	0	0.32270E-06	543985.5	3755211.2	283.9	0.00	1.70	0.76	YES	
L0052185	0	0.32270E-06	543988.8	3755212.6	283.9	0.00	1.70	0.76	YES	
L0052186	0	0.32270E-06	543992.2	3755214.0	283.9	0.00	1.70	0.76	YES	
L0052187	0	0.32270E-06	543995.6	3755215.5	283.8	0.00	1.70	0.76	YES	

L0052188	0	0.32270E-06	543999.0	3755216.8	283.8	0.00	1.70	0.76	YES
L0052189	0	0.32270E-06	544002.6	3755217.5	283.7	0.00	1.70	0.76	YES
L0052190	0	0.32270E-06	544006.2	3755218.2	283.6	0.00	1.70	0.76	YES
L0052191	0	0.32270E-06	544009.7	3755218.9	283.5	0.00	1.70	0.76	YES
L0052192	0	0.32270E-06	544013.4	3755219.4	283.4	0.00	1.70	0.76	YES
L0052193	0	0.32270E-06	544017.0	3755219.4	283.4	0.00	1.70	0.76	YES
L0052194	0	0.32270E-06	544020.7	3755219.4	283.4	0.00	1.70	0.76	YES
L0052195	0	0.32270E-06	544024.3	3755219.4	283.3	0.00	1.70	0.76	YES
L0052196	0	0.32270E-06	544028.0	3755219.3	283.3	0.00	1.70	0.76	YES
L0052197	0	0.32270E-06	544031.6	3755219.3	283.2	0.00	1.70	0.76	YES
L0052198	0	0.32270E-06	544035.3	3755219.3	283.2	0.00	1.70	0.76	YES
L0052199	0	0.32270E-06	544039.0	3755219.3	283.2	0.00	1.70	0.76	YES
L0052200	0	0.32270E-06	544042.6	3755219.3	283.2	0.00	1.70	0.76	YES
L0052201	0	0.32270E-06	544046.3	3755219.3	283.2	0.00	1.70	0.76	YES
L0052202	0	0.32270E-06	544049.9	3755219.2	283.2	0.00	1.70	0.76	YES
L0052203	0	0.32270E-06	544053.6	3755219.2	283.2	0.00	1.70	0.76	YES
L0052204	0	0.32270E-06	544057.2	3755219.2	283.2	0.00	1.70	0.76	YES
L0052205	0	0.32270E-06	544060.9	3755219.2	283.2	0.00	1.70	0.76	YES
L0052206	0	0.32270E-06	544064.6	3755219.2	283.2	0.00	1.70	0.76	YES
L0052207	0	0.32270E-06	544068.2	3755219.1	283.2	0.00	1.70	0.76	YES
L0052208	0	0.32270E-06	544071.9	3755219.1	283.2	0.00	1.70	0.76	YES
L0052209	0	0.32270E-06	544075.5	3755219.1	283.2	0.00	1.70	0.76	YES
L0052210	0	0.32270E-06	544079.2	3755219.1	283.2	0.00	1.70	0.76	YES
L0052211	0	0.32270E-06	544082.8	3755219.1	283.2	0.00	1.70	0.76	YES
L0052212	0	0.32270E-06	544086.5	3755219.0	283.2	0.00	1.70	0.76	YES
L0052213	0	0.32270E-06	544090.2	3755219.0	283.2	0.00	1.70	0.76	YES
L0052214	0	0.32270E-06	544093.8	3755219.0	283.2	0.00	1.70	0.76	YES
L0052215	0	0.32270E-06	544097.5	3755219.0	283.2	0.00	1.70	0.76	YES
L0052216	0	0.32270E-06	544101.1	3755219.0	283.2	0.00	1.70	0.76	YES
L0052217	0	0.32270E-06	544104.8	3755219.0	283.2	0.00	1.70	0.76	YES
L0052218	0	0.32270E-06	544108.4	3755218.9	283.2	0.00	1.70	0.76	YES
L0052219	0	0.32270E-06	544112.1	3755218.9	283.2	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0052220	0	0.32270E-06	544115.8	3755218.9	283.2	0.00	1.70	0.76	YES	
L0052221	0	0.32270E-06	544119.4	3755218.9	283.2	0.00	1.70	0.76	YES	
L0052222	0	0.32270E-06	544123.1	3755218.9	283.2	0.00	1.70	0.76	YES	
L0052223	0	0.32270E-06	544126.7	3755218.8	283.2	0.00	1.70	0.76	YES	
L0052224	0	0.32270E-06	544130.4	3755218.8	283.2	0.00	1.70	0.76	YES	

L0052225	0	0.32270E-06	544134.1	3755218.8	283.2	0.00	1.70	0.76	YES
L0052226	0	0.32270E-06	544137.7	3755218.8	283.2	0.00	1.70	0.76	YES
L0052227	0	0.32270E-06	544141.4	3755218.8	283.2	0.00	1.70	0.76	YES
L0052228	0	0.32270E-06	544145.0	3755218.8	283.2	0.00	1.70	0.76	YES
L0052229	0	0.32270E-06	544148.7	3755218.7	283.2	0.00	1.70	0.76	YES
L0052230	0	0.32270E-06	544152.3	3755218.7	283.2	0.00	1.70	0.76	YES
L0052231	0	0.32270E-06	544156.0	3755218.7	283.2	0.00	1.70	0.76	YES
L0052232	0	0.32270E-06	544159.7	3755218.7	283.2	0.00	1.70	0.76	YES
L0052233	0	0.32270E-06	544163.3	3755218.7	283.2	0.00	1.70	0.76	YES
L0052234	0	0.32270E-06	544167.0	3755218.6	283.2	0.00	1.70	0.76	YES
L0052235	0	0.32270E-06	544170.6	3755218.6	283.2	0.00	1.70	0.76	YES
L0052236	0	0.32270E-06	544174.3	3755218.6	283.2	0.00	1.70	0.76	YES
L0052237	0	0.32270E-06	544177.9	3755218.6	283.2	0.00	1.70	0.76	YES
L0052238	0	0.32270E-06	544181.6	3755218.6	283.2	0.00	1.70	0.76	YES
L0052239	0	0.32270E-06	544185.3	3755218.5	283.2	0.00	1.70	0.76	YES
L0052240	0	0.32270E-06	544188.9	3755218.5	283.2	0.00	1.70	0.76	YES
L0052241	0	0.32270E-06	544192.6	3755218.5	283.2	0.00	1.70	0.76	YES
L0052242	0	0.32270E-06	544196.2	3755218.5	283.2	0.00	1.70	0.76	YES
L0052243	0	0.32270E-06	544199.9	3755218.5	283.2	0.00	1.70	0.76	YES
L0052244	0	0.32270E-06	544203.5	3755218.5	283.2	0.00	1.70	0.76	YES
L0052245	0	0.32270E-06	544207.2	3755218.4	283.2	0.00	1.70	0.76	YES
L0052246	0	0.32270E-06	544210.9	3755218.4	283.2	0.00	1.70	0.76	YES
L0052247	0	0.32270E-06	544214.5	3755218.4	283.2	0.00	1.70	0.76	YES
L0052248	0	0.32270E-06	544218.2	3755218.4	283.2	0.00	1.70	0.76	YES
L0052249	0	0.32270E-06	544221.8	3755218.4	283.1	0.00	1.70	0.76	YES
L0052250	0	0.32270E-06	544225.5	3755218.3	283.1	0.00	1.70	0.76	YES
L0052251	0	0.32270E-06	544229.1	3755218.3	283.1	0.00	1.70	0.76	YES
L0052252	0	0.32270E-06	544232.8	3755218.3	283.1	0.00	1.70	0.76	YES
L0052253	0	0.32270E-06	544236.5	3755218.3	283.1	0.00	1.70	0.76	YES
L0052254	0	0.32270E-06	544240.1	3755218.3	283.1	0.00	1.70	0.76	YES
L0052255	0	0.32270E-06	544243.8	3755218.3	283.1	0.00	1.70	0.76	YES
L0052256	0	0.32270E-06	544247.4	3755218.2	283.1	0.00	1.70	0.76	YES
L0052257	0	0.32270E-06	544251.1	3755218.2	283.0	0.00	1.70	0.76	YES
L0052258	0	0.32270E-06	544254.8	3755218.2	283.0	0.00	1.70	0.76	YES
L0052259	0	0.32270E-06	544258.4	3755218.2	283.0	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0052260	0	0.32270E-06	544262.1	3755218.2	283.0	0.00	1.70	0.76	YES	
L0052261	0	0.32270E-06	544265.7	3755218.1	283.0	0.00	1.70	0.76	YES	

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L0052262         0   0.32270E-06  544269.4 3755218.1   283.0     0.00     1.70     0.76     YES
L0052263         0   0.32270E-06  544273.0 3755218.1   283.0     0.00     1.70     0.76     YES
L0052264         0   0.32270E-06  544276.7 3755218.1   283.0     0.00     1.70     0.76     YES
L0052265         0   0.32270E-06  544280.4 3755218.1   282.9     0.00     1.70     0.76     YES
L0052266         0   0.32270E-06  544284.0 3755218.0   282.9     0.00     1.70     0.76     YES
L0052267         0   0.32270E-06  544287.7 3755218.0   282.9     0.00     1.70     0.76     YES
L0052268         0   0.32270E-06  544291.3 3755218.0   282.9     0.00     1.70     0.76     YES
L0052269         0   0.32270E-06  544295.0 3755218.0   282.9     0.00     1.70     0.76     YES
L0052270         0   0.32270E-06  544298.6 3755218.0   282.9     0.00     1.70     0.76     YES
L0052271         0   0.32270E-06  544302.3 3755218.0   282.9     0.00     1.70     0.76     YES
L0052272         0   0.32270E-06  544306.0 3755217.9   282.9     0.00     1.70     0.76     YES
L0052273         0   0.32270E-06  544309.6 3755217.9   282.8     0.00     1.70     0.76     YES
L0052274         0   0.32270E-06  544313.3 3755217.9   282.8     0.00     1.70     0.76     YES
L0052275         0   0.32270E-06  544316.9 3755217.9   282.8     0.00     1.70     0.76     YES
L0052276         0   0.32270E-06  544320.6 3755217.9   282.8     0.00     1.70     0.76     YES
L0052277         0   0.32270E-06  544324.2 3755217.8   282.8     0.00     1.70     0.76     YES
L0052278         0   0.32270E-06  544327.9 3755217.8   282.8     0.00     1.70     0.76     YES
L0052279         0   0.32270E-06  544331.6 3755217.8   282.7     0.00     1.70     0.76     YES
L0052280         0   0.32270E-06  544335.2 3755217.8   282.7     0.00     1.70     0.76     YES
L0052281         0   0.32270E-06  544338.9 3755217.8   282.7     0.00     1.70     0.76     YES
L0052282         0   0.32270E-06  544342.5 3755217.8   282.7     0.00     1.70     0.76     YES
L0052283         0   0.32270E-06  544346.2 3755217.7   282.7     0.00     1.70     0.76     YES
L0052284         0   0.32270E-06  544349.8 3755217.7   282.7     0.00     1.70     0.76     YES
L0052285         0   0.32270E-06  544353.5 3755217.7   282.7     0.00     1.70     0.76     YES
L0052286         0   0.32270E-06  544357.2 3755217.7   282.6     0.00     1.70     0.76     YES
L0052287         0   0.32250E-06  544102.6 3754969.5   279.0     0.00     1.70     0.76     YES
L0052288         0   0.32250E-06  544106.2 3754969.5   279.0     0.00     1.70     0.76     YES
L0052289         0   0.32250E-06  544109.9 3754969.5   279.0     0.00     1.70     0.76     YES
L0052290         0   0.32250E-06  544113.5 3754969.5   279.0     0.00     1.70     0.76     YES
L0052291         0   0.32250E-06  544117.2 3754969.5   279.0     0.00     1.70     0.76     YES
L0052292         0   0.32250E-06  544120.9 3754969.6   279.0     0.00     1.70     0.76     YES
L0052293         0   0.32250E-06  544124.5 3754969.6   279.0     0.00     1.70     0.76     YES
L0052294         0   0.32250E-06  544128.2 3754969.6   279.0     0.00     1.70     0.76     YES
L0052295         0   0.32250E-06  544131.8 3754969.6   279.0     0.00     1.70     0.76     YES
L0052296         0   0.32250E-06  544135.5 3754969.6   279.0     0.00     1.70     0.76     YES
L0052297         0   0.32250E-06  544139.1 3754969.6   279.0     0.00     1.70     0.76     YES
L0052298         0   0.32250E-06  544142.8 3754969.6   279.0     0.00     1.70     0.76     YES
L0052299         0   0.32250E-06  544146.5 3754969.6   278.9     0.00     1.70     0.76     YES
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY

L0052300	0	0.32250E-06	544150.1	3754969.6	278.9	0.00	1.70	0.76	YES
L0052301	0	0.32250E-06	544153.8	3754969.6	278.9	0.00	1.70	0.76	YES
L0052302	0	0.32250E-06	544157.4	3754969.6	278.9	0.00	1.70	0.76	YES
L0052303	0	0.32250E-06	544161.1	3754969.7	278.9	0.00	1.70	0.76	YES
L0052304	0	0.32250E-06	544164.7	3754969.7	278.9	0.00	1.70	0.76	YES
L0052305	0	0.32250E-06	544168.4	3754969.7	278.9	0.00	1.70	0.76	YES
L0052306	0	0.32250E-06	544172.1	3754969.7	278.9	0.00	1.70	0.76	YES
L0052307	0	0.32250E-06	544175.7	3754969.7	278.8	0.00	1.70	0.76	YES
L0052308	0	0.32250E-06	544179.4	3754969.7	278.8	0.00	1.70	0.76	YES
L0052309	0	0.32250E-06	544183.0	3754969.7	278.8	0.00	1.70	0.76	YES
L0052310	0	0.32250E-06	544186.7	3754969.7	278.8	0.00	1.70	0.76	YES
L0052311	0	0.32250E-06	544190.3	3754969.7	278.8	0.00	1.70	0.76	YES
L0052312	0	0.32250E-06	544194.0	3754969.7	278.8	0.00	1.70	0.76	YES
L0052313	0	0.32250E-06	544197.7	3754969.7	278.8	0.00	1.70	0.76	YES
L0052314	0	0.32250E-06	544201.3	3754969.8	278.7	0.00	1.70	0.76	YES
L0052315	0	0.32250E-06	544205.0	3754969.8	278.7	0.00	1.70	0.76	YES
L0052316	0	0.32250E-06	544208.6	3754969.8	278.7	0.00	1.70	0.76	YES
L0052317	0	0.32250E-06	544212.3	3754969.8	278.7	0.00	1.70	0.76	YES
L0052318	0	0.32250E-06	544216.0	3754969.8	278.7	0.00	1.70	0.76	YES
L0052319	0	0.32250E-06	544219.6	3754969.8	278.7	0.00	1.70	0.76	YES
L0052320	0	0.32250E-06	544223.3	3754969.8	278.7	0.00	1.70	0.76	YES
L0052321	0	0.32250E-06	544226.9	3754969.8	278.7	0.00	1.70	0.76	YES
L0052322	0	0.32250E-06	544230.6	3754969.8	278.6	0.00	1.70	0.76	YES
L0052323	0	0.32250E-06	544234.2	3754969.8	278.6	0.00	1.70	0.76	YES
L0052324	0	0.32250E-06	544237.9	3754969.8	278.6	0.00	1.70	0.76	YES
L0052325	0	0.32250E-06	544241.6	3754969.9	278.6	0.00	1.70	0.76	YES
L0052326	0	0.32250E-06	544245.2	3754969.9	278.6	0.00	1.70	0.76	YES
L0052327	0	0.32250E-06	544248.9	3754969.9	278.6	0.00	1.70	0.76	YES
L0052328	0	0.32250E-06	544252.5	3754969.9	278.5	0.00	1.70	0.76	YES
L0052329	0	0.32250E-06	544256.2	3754969.9	278.5	0.00	1.70	0.76	YES
L0052330	0	0.32250E-06	544259.8	3754969.9	278.5	0.00	1.70	0.76	YES
L0052331	0	0.32250E-06	544263.5	3754969.9	278.5	0.00	1.70	0.76	YES
L0052332	0	0.32250E-06	544267.2	3754969.9	278.5	0.00	1.70	0.76	YES
L0052333	0	0.32250E-06	544270.8	3754969.9	278.4	0.00	1.70	0.76	YES
L0052334	0	0.32250E-06	544274.5	3754969.9	278.4	0.00	1.70	0.76	YES
L0052335	0	0.32250E-06	544278.1	3754969.9	278.4	0.00	1.70	0.76	YES
L0052336	0	0.32250E-06	544281.8	3754970.0	278.4	0.00	1.70	0.76	YES
L0052337	0	0.32250E-06	544285.4	3754970.0	278.4	0.00	1.70	0.76	YES
L0052338	0	0.32250E-06	544289.1	3754970.0	278.4	0.00	1.70	0.76	YES
L0052339	0	0.32250E-06	544292.8	3754970.0	278.3	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER	EMISSION RATE	BASE	RELEASE	INIT.	INIT.	URBAN	EMISSION RATE

SOURCE ID	PART. CATS.	(GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE	SCALAR VARY BY
L0052340	0	0.32250E-06	544296.4	3754970.0	278.3	0.00	1.70	0.76	YES	
L0052341	0	0.32250E-06	544300.1	3754970.0	278.3	0.00	1.70	0.76	YES	
L0052342	0	0.32250E-06	544303.7	3754970.0	278.3	0.00	1.70	0.76	YES	
L0052343	0	0.32250E-06	544307.4	3754970.0	278.2	0.00	1.70	0.76	YES	
L0052344	0	0.32250E-06	544311.0	3754970.0	278.2	0.00	1.70	0.76	YES	
L0052345	0	0.32250E-06	544314.7	3754970.0	278.2	0.00	1.70	0.76	YES	
L0052346	0	0.32250E-06	544318.4	3754970.0	278.2	0.00	1.70	0.76	YES	
L0052347	0	0.32250E-06	544322.0	3754970.1	278.2	0.00	1.70	0.76	YES	
L0052348	0	0.32250E-06	544325.7	3754970.1	278.2	0.00	1.70	0.76	YES	
L0052349	0	0.32250E-06	544329.3	3754970.1	278.2	0.00	1.70	0.76	YES	
L0052350	0	0.32250E-06	544333.0	3754970.1	278.1	0.00	1.70	0.76	YES	
L0052351	0	0.32250E-06	544336.7	3754970.1	278.1	0.00	1.70	0.76	YES	
L0052352	0	0.32250E-06	544340.3	3754970.1	278.1	0.00	1.70	0.76	YES	
L0052353	0	0.32250E-06	544344.0	3754970.1	278.1	0.00	1.70	0.76	YES	
L0052354	0	0.32250E-06	544347.6	3754970.1	278.1	0.00	1.70	0.76	YES	
L0052355	0	0.32250E-06	544351.3	3754970.1	278.1	0.00	1.70	0.76	YES	
L0052356	0	0.32250E-06	544354.9	3754970.1	278.0	0.00	1.70	0.76	YES	
L0052357	0	0.32250E-06	544358.6	3754970.1	278.0	0.00	1.70	0.76	YES	
L0052358	0	0.12610E-06	543688.1	3755636.9	294.1	0.00	1.70	0.76	YES	
L0052359	0	0.12610E-06	543688.1	3755640.6	294.2	0.00	1.70	0.76	YES	
L0052360	0	0.12610E-06	543688.1	3755644.2	294.2	0.00	1.70	0.76	YES	
L0052361	0	0.12610E-06	543688.1	3755647.9	294.3	0.00	1.70	0.76	YES	
L0052362	0	0.12610E-06	543688.1	3755651.5	294.4	0.00	1.70	0.76	YES	
L0052363	0	0.12610E-06	543688.1	3755655.2	294.5	0.00	1.70	0.76	YES	
L0052364	0	0.12610E-06	543688.1	3755658.9	294.6	0.00	1.70	0.76	YES	
L0052365	0	0.12610E-06	543688.2	3755662.5	294.6	0.00	1.70	0.76	YES	
L0052366	0	0.12610E-06	543688.2	3755666.2	294.7	0.00	1.70	0.76	YES	
L0052367	0	0.12610E-06	543688.2	3755669.8	294.8	0.00	1.70	0.76	YES	
L0052368	0	0.12610E-06	543688.2	3755673.5	294.9	0.00	1.70	0.76	YES	
L0052369	0	0.12610E-06	543688.2	3755677.1	294.9	0.00	1.70	0.76	YES	
L0052370	0	0.12610E-06	543688.2	3755680.8	295.0	0.00	1.70	0.76	YES	
L0052371	0	0.12610E-06	543688.2	3755684.5	295.1	0.00	1.70	0.76	YES	
L0052372	0	0.12610E-06	543688.2	3755688.1	295.2	0.00	1.70	0.76	YES	
L0052373	0	0.12610E-06	543688.2	3755691.8	295.2	0.00	1.70	0.76	YES	
L0052374	0	0.12610E-06	543688.3	3755695.4	295.3	0.00	1.70	0.76	YES	
L0052375	0	0.12610E-06	543688.3	3755699.1	295.4	0.00	1.70	0.76	YES	
L0052376	0	0.12610E-06	543688.3	3755702.8	295.5	0.00	1.70	0.76	YES	
L0052377	0	0.12610E-06	543688.3	3755706.4	295.6	0.00	1.70	0.76	YES	
L0052378	0	0.12610E-06	543688.3	3755710.1	295.6	0.00	1.70	0.76	YES	
L0052379	0	0.12610E-06	543688.3	3755713.7	295.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0052380	0	0.12610E-06	543688.3	3755717.4	295.8	0.00	1.70	0.76	YES	
L0052381	0	0.12610E-06	543688.3	3755721.0	295.9	0.00	1.70	0.76	YES	
L0052382	0	0.12610E-06	543688.3	3755724.7	295.9	0.00	1.70	0.76	YES	
L0052383	0	0.12610E-06	543688.4	3755728.4	296.0	0.00	1.70	0.76	YES	
L0052384	0	0.12610E-06	543688.4	3755732.0	296.1	0.00	1.70	0.76	YES	
L0052385	0	0.12610E-06	543688.4	3755735.7	296.2	0.00	1.70	0.76	YES	
L0052386	0	0.12610E-06	543688.4	3755739.3	296.3	0.00	1.70	0.76	YES	
L0052387	0	0.12610E-06	543688.4	3755743.0	296.3	0.00	1.70	0.76	YES	
L0052388	0	0.12610E-06	543688.4	3755746.6	296.4	0.00	1.70	0.76	YES	
L0052389	0	0.12610E-06	543688.4	3755750.3	296.5	0.00	1.70	0.76	YES	
L0052390	0	0.12610E-06	543688.4	3755754.0	296.6	0.00	1.70	0.76	YES	
L0052391	0	0.12610E-06	543688.4	3755757.6	296.6	0.00	1.70	0.76	YES	
L0052392	0	0.12610E-06	543688.5	3755761.3	296.7	0.00	1.70	0.76	YES	
L0052393	0	0.12610E-06	543688.5	3755764.9	296.8	0.00	1.70	0.76	YES	
L0052394	0	0.12610E-06	543688.5	3755768.6	296.9	0.00	1.70	0.76	YES	
L0052395	0	0.12610E-06	543688.5	3755772.2	296.9	0.00	1.70	0.76	YES	
L0052396	0	0.12610E-06	543688.5	3755775.9	297.0	0.00	1.70	0.76	YES	
L0052397	0	0.12610E-06	543688.5	3755779.6	297.1	0.00	1.70	0.76	YES	
L0052398	0	0.12610E-06	543688.5	3755783.2	297.2	0.00	1.70	0.76	YES	
L0052399	0	0.12610E-06	543688.5	3755786.9	297.2	0.00	1.70	0.76	YES	
L0052400	0	0.12610E-06	543688.5	3755790.5	297.3	0.00	1.70	0.76	YES	
L0052401	0	0.12610E-06	543688.6	3755794.2	297.4	0.00	1.70	0.76	YES	
L0052402	0	0.12610E-06	543688.6	3755797.8	297.4	0.00	1.70	0.76	YES	
L0052403	0	0.12610E-06	543688.6	3755801.5	297.5	0.00	1.70	0.76	YES	
L0052404	0	0.12610E-06	543688.6	3755805.2	297.6	0.00	1.70	0.76	YES	
L0052405	0	0.12610E-06	543688.6	3755808.8	297.7	0.00	1.70	0.76	YES	
L0052406	0	0.12610E-06	543688.6	3755812.5	297.7	0.00	1.70	0.76	YES	
L0052407	0	0.12610E-06	543688.6	3755816.1	297.8	0.00	1.70	0.76	YES	
L0052408	0	0.12610E-06	543688.6	3755819.8	297.9	0.00	1.70	0.76	YES	
L0052409	0	0.12610E-06	543688.6	3755823.5	297.9	0.00	1.70	0.76	YES	
L0052410	0	0.12610E-06	543688.7	3755827.1	298.0	0.00	1.70	0.76	YES	
L0052411	0	0.12610E-06	543688.7	3755830.8	298.1	0.00	1.70	0.76	YES	
L0052412	0	0.12610E-06	543688.7	3755834.4	298.2	0.00	1.70	0.76	YES	
L0052413	0	0.12610E-06	543688.7	3755838.1	298.2	0.00	1.70	0.76	YES	
L0052414	0	0.12610E-06	543688.7	3755841.7	298.3	0.00	1.70	0.76	YES	
L0052415	0	0.12610E-06	543688.7	3755845.4	298.4	0.00	1.70	0.76	YES	
L0052416	0	0.12610E-06	543688.7	3755849.1	298.5	0.00	1.70	0.76	YES	
L0052417	0	0.12610E-06	543688.7	3755852.7	298.5	0.00	1.70	0.76	YES	
L0052418	0	0.12610E-06	543688.7	3755856.4	298.6	0.00	1.70	0.76	YES	
L0052419	0	0.12610E-06	543688.8	3755860.0	298.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0052420	0	0.12610E-06	543688.8	3755863.7	298.8	0.00	1.70	0.76	YES	
L0052421	0	0.12610E-06	543688.8	3755867.3	298.8	0.00	1.70	0.76	YES	
L0052422	0	0.12610E-06	543688.8	3755871.0	298.9	0.00	1.70	0.76	YES	
L0052423	0	0.12610E-06	543688.8	3755874.7	299.0	0.00	1.70	0.76	YES	
L0052424	0	0.12610E-06	543688.8	3755878.3	299.1	0.00	1.70	0.76	YES	
L0052425	0	0.12610E-06	543688.8	3755882.0	299.1	0.00	1.70	0.76	YES	
L0052426	0	0.12610E-06	543688.8	3755885.6	299.2	0.00	1.70	0.76	YES	
L0052427	0	0.12610E-06	543688.8	3755889.3	299.3	0.00	1.70	0.76	YES	
L0052428	0	0.12610E-06	543688.9	3755892.9	299.4	0.00	1.70	0.76	YES	
L0052429	0	0.12610E-06	543688.9	3755896.6	299.4	0.00	1.70	0.76	YES	
L0052430	0	0.12610E-06	543688.9	3755900.3	299.5	0.00	1.70	0.76	YES	
L0052431	0	0.12610E-06	543688.9	3755903.9	299.6	0.00	1.70	0.76	YES	
L0052432	0	0.12610E-06	543688.9	3755907.6	299.7	0.00	1.70	0.76	YES	
L0052433	0	0.12610E-06	543688.9	3755911.2	299.7	0.00	1.70	0.76	YES	
L0052434	0	0.12610E-06	543688.9	3755914.9	299.8	0.00	1.70	0.76	YES	
L0052435	0	0.12610E-06	543688.9	3755918.5	299.9	0.00	1.70	0.76	YES	
L0052436	0	0.12610E-06	543688.9	3755922.2	299.9	0.00	1.70	0.76	YES	
L0052437	0	0.12610E-06	543689.0	3755925.9	300.0	0.00	1.70	0.76	YES	
L0052438	0	0.12610E-06	543689.0	3755929.5	300.1	0.00	1.70	0.76	YES	
L0052439	0	0.12610E-06	543689.0	3755933.2	300.2	0.00	1.70	0.76	YES	
L0052440	0	0.12610E-06	543689.0	3755936.8	300.2	0.00	1.70	0.76	YES	
L0052441	0	0.12610E-06	543689.0	3755940.5	300.3	0.00	1.70	0.76	YES	
L0052442	0	0.12610E-06	543689.0	3755944.2	300.4	0.00	1.70	0.76	YES	
L0052443	0	0.12610E-06	543689.0	3755947.8	300.4	0.00	1.70	0.76	YES	
L0052444	0	0.12610E-06	543689.0	3755951.5	300.5	0.00	1.70	0.76	YES	
L0052445	0	0.12610E-06	543689.0	3755955.1	300.6	0.00	1.70	0.76	YES	
L0052446	0	0.12610E-06	543689.1	3755958.8	300.6	0.00	1.70	0.76	YES	
L0052447	0	0.12610E-06	543689.1	3755962.4	300.7	0.00	1.70	0.76	YES	
L0052448	0	0.12610E-06	543689.1	3755966.1	300.8	0.00	1.70	0.76	YES	
L0052449	0	0.12610E-06	543689.1	3755969.8	300.8	0.00	1.70	0.76	YES	
L0052450	0	0.12610E-06	543689.1	3755973.4	300.9	0.00	1.70	0.76	YES	
L0052451	0	0.12610E-06	543689.1	3755977.1	301.0	0.00	1.70	0.76	YES	
L0052452	0	0.12610E-06	543689.1	3755980.7	301.0	0.00	1.70	0.76	YES	
L0052453	0	0.12610E-06	543689.1	3755984.4	301.1	0.00	1.70	0.76	YES	
L0052454	0	0.12610E-06	543689.1	3755988.0	301.2	0.00	1.70	0.76	YES	
L0052455	0	0.12610E-06	543689.2	3755991.7	301.2	0.00	1.70	0.76	YES	
L0052456	0	0.12610E-06	543689.2	3755995.4	301.3	0.00	1.70	0.76	YES	
L0052457	0	0.12610E-06	543689.2	3755999.0	301.4	0.00	1.70	0.76	YES	
L0052458	0	0.12610E-06	543689.2	3756002.7	301.4	0.00	1.70	0.76	YES	
L0052459	0	0.12610E-06	543689.2	3756006.3	301.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0052460	0	0.12610E-06	543689.2	3756010.0	301.6	0.00	1.70	0.76	YES	
L0052461	0	0.12610E-06	543689.2	3756013.6	301.6	0.00	1.70	0.76	YES	
L0052462	0	0.12610E-06	543689.2	3756017.3	301.7	0.00	1.70	0.76	YES	
L0052463	0	0.12610E-06	543689.2	3756021.0	301.8	0.00	1.70	0.76	YES	
L0052464	0	0.12610E-06	543689.3	3756024.6	301.8	0.00	1.70	0.76	YES	
L0052465	0	0.12610E-06	543689.3	3756028.3	301.9	0.00	1.70	0.76	YES	
L0052466	0	0.12610E-06	543689.3	3756031.9	302.0	0.00	1.70	0.76	YES	
L0052467	0	0.12610E-06	543689.3	3756035.6	302.0	0.00	1.70	0.76	YES	
L0052468	0	0.12610E-06	543689.3	3756039.2	302.1	0.00	1.70	0.76	YES	
L0052469	0	0.12610E-06	543689.3	3756042.9	302.2	0.00	1.70	0.76	YES	
L0052470	0	0.12610E-06	543689.3	3756046.6	302.2	0.00	1.70	0.76	YES	
L0052471	0	0.12610E-06	543689.3	3756050.2	302.3	0.00	1.70	0.76	YES	
L0052472	0	0.12610E-06	543689.3	3756053.9	302.4	0.00	1.70	0.76	YES	
L0052473	0	0.12610E-06	543689.4	3756057.5	302.4	0.00	1.70	0.76	YES	
L0052474	0	0.12610E-06	543689.4	3756061.2	302.5	0.00	1.70	0.76	YES	
L0052475	0	0.12610E-06	543689.4	3756064.9	302.6	0.00	1.70	0.76	YES	
L0052476	0	0.12610E-06	543689.4	3756068.5	302.7	0.00	1.70	0.76	YES	
L0052477	0	0.12610E-06	543689.4	3756072.2	302.7	0.00	1.70	0.76	YES	
L0052478	0	0.12610E-06	543689.4	3756075.8	302.8	0.00	1.70	0.76	YES	
L0052479	0	0.12610E-06	543689.4	3756079.5	302.9	0.00	1.70	0.76	YES	
L0052480	0	0.12610E-06	543689.4	3756083.1	302.9	0.00	1.70	0.76	YES	
L0052481	0	0.12610E-06	543689.4	3756086.8	303.0	0.00	1.70	0.76	YES	
L0052482	0	0.12610E-06	543689.5	3756090.5	303.1	0.00	1.70	0.76	YES	
L0052483	0	0.12610E-06	543689.5	3756094.1	303.1	0.00	1.70	0.76	YES	
L0052484	0	0.12610E-06	543689.5	3756097.8	303.2	0.00	1.70	0.76	YES	
L0052485	0	0.12610E-06	543689.5	3756101.4	303.3	0.00	1.70	0.76	YES	
L0052486	0	0.12610E-06	543689.5	3756105.1	303.4	0.00	1.70	0.76	YES	
L0052487	0	0.12610E-06	543689.5	3756108.7	303.4	0.00	1.70	0.76	YES	
L0052488	0	0.12610E-06	543689.5	3756112.4	303.5	0.00	1.70	0.76	YES	
L0052489	0	0.12610E-06	543689.5	3756116.1	303.6	0.00	1.70	0.76	YES	
L0052490	0	0.12610E-06	543689.5	3756119.7	303.6	0.00	1.70	0.76	YES	
L0052491	0	0.12610E-06	543689.6	3756123.4	303.7	0.00	1.70	0.76	YES	
L0052492	0	0.12610E-06	543689.6	3756127.0	303.8	0.00	1.70	0.76	YES	
L0052493	0	0.12610E-06	543689.6	3756130.7	303.9	0.00	1.70	0.76	YES	
L0052494	0	0.12610E-06	543689.6	3756134.3	303.9	0.00	1.70	0.76	YES	
L0052495	0	0.12610E-06	543689.6	3756138.0	304.0	0.00	1.70	0.76	YES	
L0052496	0	0.12610E-06	543689.6	3756141.7	304.1	0.00	1.70	0.76	YES	
L0052497	0	0.12610E-06	543689.6	3756145.3	304.2	0.00	1.70	0.76	YES	

L0052498	0	0.12610E-06	543689.6	3756149.0	304.2	0.00	1.70	0.76	YES	
L0052499	0	0.12610E-06	543689.6	3756152.6	304.3	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0052500	0	0.12610E-06	543689.7	3756156.3	304.4	0.00	1.70	0.76	YES	
L0052501	0	0.12610E-06	543689.7	3756159.9	304.4	0.00	1.70	0.76	YES	
L0052502	0	0.12610E-06	543689.7	3756163.6	304.5	0.00	1.70	0.76	YES	
L0052503	0	0.12610E-06	543689.7	3756167.3	304.5	0.00	1.70	0.76	YES	
L0052504	0	0.12610E-06	543689.7	3756170.9	304.6	0.00	1.70	0.76	YES	
L0052505	0	0.12610E-06	543689.7	3756174.6	304.7	0.00	1.70	0.76	YES	
L0052506	0	0.12610E-06	543689.7	3756178.2	304.7	0.00	1.70	0.76	YES	
L0052507	0	0.12610E-06	543689.7	3756181.9	304.8	0.00	1.70	0.76	YES	
L0052508	0	0.12610E-06	543689.7	3756185.6	304.9	0.00	1.70	0.76	YES	
L0052509	0	0.12610E-06	543689.8	3756189.2	304.9	0.00	1.70	0.76	YES	
L0052510	0	0.12610E-06	543689.8	3756192.9	305.0	0.00	1.70	0.76	YES	
L0052511	0	0.12610E-06	543689.8	3756196.5	305.1	0.00	1.70	0.76	YES	
L0052512	0	0.12610E-06	543689.8	3756200.2	305.1	0.00	1.70	0.76	YES	
L0052513	0	0.12610E-06	543689.8	3756203.8	305.2	0.00	1.70	0.76	YES	
L0052514	0	0.12610E-06	543689.8	3756207.5	305.3	0.00	1.70	0.76	YES	
L0052515	0	0.12610E-06	543689.8	3756211.2	305.3	0.00	1.70	0.76	YES	
L0052516	0	0.12610E-06	543689.8	3756214.8	305.4	0.00	1.70	0.76	YES	
L0052517	0	0.12610E-06	543689.8	3756218.5	305.4	0.00	1.70	0.76	YES	
L0052518	0	0.12610E-06	543689.9	3756222.1	305.5	0.00	1.70	0.76	YES	
L0052519	0	0.12610E-06	543689.9	3756225.8	305.5	0.00	1.70	0.76	YES	
L0052520	0	0.12610E-06	543689.9	3756229.4	305.6	0.00	1.70	0.76	YES	
L0052521	0	0.12610E-06	543689.9	3756233.1	305.6	0.00	1.70	0.76	YES	
L0052522	0	0.12610E-06	543689.9	3756236.8	305.7	0.00	1.70	0.76	YES	
L0052523	0	0.12610E-06	543689.9	3756240.4	305.7	0.00	1.70	0.76	YES	
L0052524	0	0.12610E-06	543689.9	3756244.1	305.8	0.00	1.70	0.76	YES	
L0052525	0	0.12610E-06	543689.9	3756247.7	305.8	0.00	1.70	0.76	YES	
L0052526	0	0.12610E-06	543689.9	3756251.4	305.9	0.00	1.70	0.76	YES	
L0052527	0	0.12610E-06	543690.0	3756255.0	305.9	0.00	1.70	0.76	YES	
L0052528	0	0.12610E-06	543690.0	3756258.7	306.0	0.00	1.70	0.76	YES	
L0052529	0	0.12610E-06	543690.0	3756262.4	306.0	0.00	1.70	0.76	YES	
L0052530	0	0.12610E-06	543690.0	3756266.0	306.1	0.00	1.70	0.76	YES	
L0052531	0	0.12610E-06	543690.0	3756269.7	306.1	0.00	1.70	0.76	YES	
L0052532	0	0.12610E-06	543690.0	3756273.3	306.2	0.00	1.70	0.76	YES	
L0052533	0	0.12610E-06	543690.0	3756277.0	306.3	0.00	1.70	0.76	YES	
L0052534	0	0.12610E-06	543690.0	3756280.6	306.3	0.00	1.70	0.76	YES	

L0052535	0	0.12610E-06	543690.0	3756284.3	306.4	0.00	1.70	0.76	YES	
L0052536	0	0.12610E-06	543690.1	3756288.0	306.5	0.00	1.70	0.76	YES	
L0052537	0	0.12610E-06	543690.1	3756291.6	306.6	0.00	1.70	0.76	YES	
L0052538	0	0.12610E-06	543690.1	3756295.3	306.6	0.00	1.70	0.76	YES	
L0052539	0	0.12610E-06	543690.1	3756298.9	306.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0052540	0	0.12610E-06	543690.1	3756302.6	306.7	0.00	1.70	0.76	YES	
L0052541	0	0.12610E-06	543690.1	3756306.3	306.8	0.00	1.70	0.76	YES	
L0052542	0	0.12610E-06	543690.1	3756309.9	306.8	0.00	1.70	0.76	YES	
L0052543	0	0.12610E-06	543690.1	3756313.6	306.9	0.00	1.70	0.76	YES	
L0052544	0	0.12610E-06	543690.1	3756317.2	306.9	0.00	1.70	0.76	YES	
L0052545	0	0.12610E-06	543690.2	3756320.9	307.0	0.00	1.70	0.76	YES	
L0052546	0	0.12610E-06	543690.2	3756324.5	307.0	0.00	1.70	0.76	YES	
L0052547	0	0.12610E-06	543690.2	3756328.2	307.1	0.00	1.70	0.76	YES	
L0052548	0	0.12610E-06	543690.2	3756331.9	307.1	0.00	1.70	0.76	YES	
L0052549	0	0.12610E-06	543690.2	3756335.5	307.2	0.00	1.70	0.76	YES	
L0052550	0	0.12610E-06	543690.2	3756339.2	307.3	0.00	1.70	0.76	YES	
L0052551	0	0.12610E-06	543690.2	3756342.8	307.3	0.00	1.70	0.76	YES	
L0052552	0	0.12610E-06	543690.2	3756346.5	307.4	0.00	1.70	0.76	YES	
L0052553	0	0.12610E-06	543690.2	3756350.1	307.5	0.00	1.70	0.76	YES	
L0052554	0	0.12610E-06	543690.3	3756353.8	307.5	0.00	1.70	0.76	YES	
L0052555	0	0.12610E-06	543690.3	3756357.5	307.6	0.00	1.70	0.76	YES	
L0052556	0	0.12610E-06	543690.3	3756361.1	307.7	0.00	1.70	0.76	YES	
L0052557	0	0.60950E-07	543696.2	3756365.7	307.7	0.00	1.70	0.76	YES	
L0052558	0	0.60950E-07	543699.9	3756365.7	307.7	0.00	1.70	0.76	YES	
L0052559	0	0.60950E-07	543703.5	3756365.7	307.7	0.00	1.70	0.76	YES	
L0052560	0	0.60950E-07	543707.2	3756365.8	307.7	0.00	1.70	0.76	YES	
L0052561	0	0.60950E-07	543710.9	3756365.8	307.7	0.00	1.70	0.76	YES	
L0052562	0	0.60950E-07	543714.5	3756365.8	307.6	0.00	1.70	0.76	YES	
L0052563	0	0.60950E-07	543718.2	3756365.8	307.6	0.00	1.70	0.76	YES	
L0052564	0	0.60950E-07	543721.8	3756365.8	307.6	0.00	1.70	0.76	YES	
L0052565	0	0.60950E-07	543725.5	3756365.9	307.6	0.00	1.70	0.76	YES	
L0052566	0	0.60950E-07	543729.1	3756365.9	307.6	0.00	1.70	0.76	YES	
L0052567	0	0.60950E-07	543732.8	3756365.9	307.6	0.00	1.70	0.76	YES	
L0052568	0	0.60950E-07	543736.5	3756365.9	307.6	0.00	1.70	0.76	YES	
L0052569	0	0.60950E-07	543740.1	3756366.0	307.6	0.00	1.70	0.76	YES	
L0052570	0	0.60950E-07	543743.8	3756366.0	307.5	0.00	1.70	0.76	YES	
L0052571	0	0.60950E-07	543747.4	3756366.0	307.5	0.00	1.70	0.76	YES	

L0052572	0	0.60950E-07	543751.1	3756366.0	307.5	0.00	1.70	0.76	YES	
L0052573	0	0.60950E-07	543754.8	3756366.1	307.4	0.00	1.70	0.76	YES	
L0052574	0	0.60950E-07	543758.4	3756366.1	307.4	0.00	1.70	0.76	YES	
L0052575	0	0.60950E-07	543762.1	3756366.1	307.4	0.00	1.70	0.76	YES	
L0052576	0	0.60950E-07	543765.7	3756366.1	307.4	0.00	1.70	0.76	YES	
L0052577	0	0.60950E-07	543769.4	3756366.2	307.3	0.00	1.70	0.76	YES	
L0052578	0	0.60950E-07	543773.0	3756366.2	307.3	0.00	1.70	0.76	YES	
L0052579	0	0.60950E-07	543776.7	3756366.2	307.3	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0052580	0	0.60950E-07	543780.4	3756366.2	307.2	0.00	1.70	0.76	YES	
L0052581	0	0.60950E-07	543784.0	3756366.3	307.2	0.00	1.70	0.76	YES	
L0052582	0	0.60950E-07	543787.7	3756366.3	307.1	0.00	1.70	0.76	YES	
L0052583	0	0.60950E-07	543791.3	3756366.3	307.0	0.00	1.70	0.76	YES	
L0052584	0	0.60950E-07	543795.0	3756366.3	306.9	0.00	1.70	0.76	YES	
L0052585	0	0.60950E-07	543798.6	3756366.4	306.9	0.00	1.70	0.76	YES	
L0052586	0	0.60950E-07	543802.3	3756366.4	306.8	0.00	1.70	0.76	YES	
L0052587	0	0.60950E-07	543806.0	3756366.4	306.7	0.00	1.70	0.76	YES	
L0052588	0	0.60950E-07	543809.6	3756366.4	306.7	0.00	1.70	0.76	YES	
L0052589	0	0.60950E-07	543813.3	3756366.5	306.6	0.00	1.70	0.76	YES	
L0052590	0	0.60950E-07	543816.9	3756366.5	306.5	0.00	1.70	0.76	YES	
L0052591	0	0.60950E-07	543820.6	3756366.5	306.5	0.00	1.70	0.76	YES	
L0052592	0	0.60950E-07	543824.2	3756366.5	306.4	0.00	1.70	0.76	YES	
L0052593	0	0.60950E-07	543827.9	3756366.6	306.3	0.00	1.70	0.76	YES	
L0052594	0	0.60950E-07	543831.6	3756366.6	306.3	0.00	1.70	0.76	YES	
L0052595	0	0.60950E-07	543835.2	3756366.6	306.3	0.00	1.70	0.76	YES	
L0052596	0	0.60950E-07	543838.9	3756366.6	306.2	0.00	1.70	0.76	YES	
L0052597	0	0.60950E-07	543842.5	3756366.7	306.2	0.00	1.70	0.76	YES	
L0052598	0	0.60950E-07	543846.2	3756366.7	306.2	0.00	1.70	0.76	YES	
L0052599	0	0.60950E-07	543849.8	3756366.7	306.1	0.00	1.70	0.76	YES	
L0052600	0	0.60950E-07	543853.5	3756366.7	306.1	0.00	1.70	0.76	YES	
L0052601	0	0.60950E-07	543857.2	3756366.8	306.1	0.00	1.70	0.76	YES	
L0052602	0	0.60950E-07	543860.8	3756366.8	306.1	0.00	1.70	0.76	YES	
L0052603	0	0.60950E-07	543864.5	3756366.8	306.2	0.00	1.70	0.76	YES	
L0052604	0	0.60950E-07	543868.1	3756366.8	306.2	0.00	1.70	0.76	YES	
L0052605	0	0.60950E-07	543871.8	3756366.9	306.2	0.00	1.70	0.76	YES	
L0052606	0	0.60950E-07	543875.4	3756366.9	306.2	0.00	1.70	0.76	YES	
L0052607	0	0.60950E-07	543879.1	3756366.9	306.2	0.00	1.70	0.76	YES	
L0052608	0	0.60950E-07	543882.8	3756366.9	306.2	0.00	1.70	0.76	YES	

L0052609	0	0.60950E-07	543886.4	3756367.0	306.2	0.00	1.70	0.76	YES
L0052610	0	0.60950E-07	543890.1	3756367.0	306.2	0.00	1.70	0.76	YES
L0052611	0	0.60950E-07	543893.7	3756367.0	306.2	0.00	1.70	0.76	YES
L0052612	0	0.60950E-07	543897.4	3756367.0	306.1	0.00	1.70	0.76	YES
L0052613	0	0.60950E-07	543901.1	3756367.1	306.1	0.00	1.70	0.76	YES
L0052614	0	0.60950E-07	543904.7	3756367.1	306.1	0.00	1.70	0.76	YES
L0052615	0	0.60950E-07	543908.4	3756367.1	306.1	0.00	1.70	0.76	YES
L0052616	0	0.60950E-07	543912.0	3756367.1	306.0	0.00	1.70	0.76	YES
L0052617	0	0.60950E-07	543915.7	3756367.2	306.0	0.00	1.70	0.76	YES
L0052618	0	0.60950E-07	543919.3	3756367.2	306.0	0.00	1.70	0.76	YES
L0052619	0	0.60950E-07	543923.0	3756367.2	305.9	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0052620	0	0.60950E-07	543926.7	3756367.2	305.9	0.00	1.70	0.76	YES	
L0052621	0	0.60950E-07	543930.3	3756367.3	305.9	0.00	1.70	0.76	YES	
L0052622	0	0.60950E-07	543934.0	3756367.3	305.8	0.00	1.70	0.76	YES	
L0052623	0	0.60950E-07	543937.6	3756367.3	305.8	0.00	1.70	0.76	YES	
L0052624	0	0.60950E-07	543941.3	3756367.3	305.8	0.00	1.70	0.76	YES	
L0052625	0	0.60950E-07	543944.9	3756367.4	305.7	0.00	1.70	0.76	YES	
L0052626	0	0.60950E-07	543948.6	3756367.4	305.7	0.00	1.70	0.76	YES	
L0052627	0	0.60950E-07	543952.3	3756367.4	305.7	0.00	1.70	0.76	YES	
L0052628	0	0.60950E-07	543955.9	3756367.4	305.6	0.00	1.70	0.76	YES	
L0052629	0	0.60950E-07	543959.6	3756367.5	305.6	0.00	1.70	0.76	YES	
L0052630	0	0.60950E-07	543963.2	3756367.5	305.6	0.00	1.70	0.76	YES	
L0052631	0	0.60950E-07	543966.9	3756367.5	305.5	0.00	1.70	0.76	YES	
L0052632	0	0.60950E-07	543970.5	3756367.5	305.5	0.00	1.70	0.76	YES	
L0052633	0	0.60950E-07	543974.2	3756367.6	305.5	0.00	1.70	0.76	YES	
L0052634	0	0.60950E-07	543977.9	3756367.6	305.4	0.00	1.70	0.76	YES	
L0052635	0	0.60950E-07	543981.5	3756367.6	305.4	0.00	1.70	0.76	YES	
L0052636	0	0.60950E-07	543985.2	3756367.6	305.4	0.00	1.70	0.76	YES	
L0052637	0	0.60950E-07	543988.8	3756367.7	305.3	0.00	1.70	0.76	YES	
L0052638	0	0.60950E-07	543992.5	3756367.7	305.3	0.00	1.70	0.76	YES	
L0052639	0	0.60950E-07	543996.1	3756367.7	305.3	0.00	1.70	0.76	YES	
L0052640	0	0.60950E-07	543999.8	3756367.7	305.2	0.00	1.70	0.76	YES	
L0052641	0	0.60950E-07	544003.5	3756367.8	305.2	0.00	1.70	0.76	YES	
L0052642	0	0.60950E-07	544007.1	3756367.8	305.2	0.00	1.70	0.76	YES	
L0052643	0	0.60950E-07	544010.8	3756367.8	305.2	0.00	1.70	0.76	YES	
L0052644	0	0.60950E-07	544014.4	3756367.8	305.1	0.00	1.70	0.76	YES	
L0052645	0	0.60950E-07	544018.1	3756367.9	305.1	0.00	1.70	0.76	YES	

L0052646	0	0.60950E-07	544021.7	3756367.9	305.1	0.00	1.70	0.76	YES	
L0052647	0	0.60950E-07	544025.4	3756367.9	305.0	0.00	1.70	0.76	YES	
L0052648	0	0.60950E-07	544029.1	3756367.9	305.0	0.00	1.70	0.76	YES	
L0052649	0	0.60950E-07	544032.7	3756368.0	305.0	0.00	1.70	0.76	YES	
L0052650	0	0.60950E-07	544036.4	3756368.0	304.9	0.00	1.70	0.76	YES	
L0052651	0	0.60950E-07	544040.0	3756368.0	304.9	0.00	1.70	0.76	YES	
L0052652	0	0.60950E-07	544043.7	3756368.0	304.9	0.00	1.70	0.76	YES	
L0052653	0	0.60950E-07	544047.4	3756368.1	304.9	0.00	1.70	0.76	YES	
L0052654	0	0.60950E-07	544051.0	3756368.1	304.8	0.00	1.70	0.76	YES	
L0052655	0	0.60950E-07	544054.7	3756368.1	304.8	0.00	1.70	0.76	YES	
L0052656	0	0.60950E-07	544058.3	3756368.1	304.8	0.00	1.70	0.76	YES	
L0052657	0	0.60950E-07	544062.0	3756368.1	304.8	0.00	1.70	0.76	YES	
L0052658	0	0.60950E-07	544065.6	3756368.2	304.7	0.00	1.70	0.76	YES	
L0052659	0	0.60950E-07	544069.3	3756368.2	304.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0052660	0	0.60950E-07	544073.0	3756368.2	304.7	0.00	1.70	0.76	YES	
L0052661	0	0.60950E-07	544076.6	3756368.2	304.7	0.00	1.70	0.76	YES	
L0052662	0	0.60950E-07	544080.3	3756368.3	304.7	0.00	1.70	0.76	YES	
L0052663	0	0.60950E-07	544083.9	3756368.3	304.6	0.00	1.70	0.76	YES	
L0052664	0	0.60950E-07	544087.6	3756368.3	304.6	0.00	1.70	0.76	YES	
L0052665	0	0.60950E-07	544091.2	3756368.3	304.6	0.00	1.70	0.76	YES	
L0052666	0	0.60950E-07	544094.9	3756368.4	304.6	0.00	1.70	0.76	YES	
L0052667	0	0.60950E-07	544098.6	3756368.4	304.5	0.00	1.70	0.76	YES	
L0052668	0	0.60950E-07	544102.2	3756368.4	304.5	0.00	1.70	0.76	YES	
L0052669	0	0.60950E-07	544105.9	3756368.4	304.5	0.00	1.70	0.76	YES	
L0052670	0	0.60950E-07	544109.5	3756368.5	304.5	0.00	1.70	0.76	YES	
L0052671	0	0.60950E-07	544113.2	3756368.5	304.4	0.00	1.70	0.76	YES	
L0052672	0	0.60950E-07	544116.8	3756368.5	304.4	0.00	1.70	0.76	YES	
L0052673	0	0.60950E-07	544120.5	3756368.5	304.4	0.00	1.70	0.76	YES	
L0052674	0	0.60950E-07	544124.2	3756368.6	304.4	0.00	1.70	0.76	YES	
L0052675	0	0.60950E-07	544127.8	3756368.6	304.4	0.00	1.70	0.76	YES	
L0052676	0	0.60950E-07	544131.5	3756368.6	304.4	0.00	1.70	0.76	YES	
L0052677	0	0.60950E-07	544135.1	3756368.6	304.4	0.00	1.70	0.76	YES	
L0052678	0	0.60950E-07	544138.8	3756368.7	304.3	0.00	1.70	0.76	YES	
L0052679	0	0.60950E-07	544142.4	3756368.7	304.3	0.00	1.70	0.76	YES	
L0052680	0	0.60950E-07	544146.1	3756368.7	304.3	0.00	1.70	0.76	YES	
L0052681	0	0.60950E-07	544149.8	3756368.7	304.2	0.00	1.70	0.76	YES	
L0052682	0	0.60950E-07	544153.4	3756368.8	304.2	0.00	1.70	0.76	YES	

L0052683	0	0.60950E-07	544157.1	3756368.8	304.2	0.00	1.70	0.76	YES	
L0052684	0	0.60950E-07	544160.7	3756368.8	304.1	0.00	1.70	0.76	YES	
L0052685	0	0.60950E-07	544164.4	3756368.8	304.1	0.00	1.70	0.76	YES	
L0052686	0	0.60950E-07	544168.0	3756368.9	304.0	0.00	1.70	0.76	YES	
L0052687	0	0.60950E-07	544171.7	3756368.9	304.0	0.00	1.70	0.76	YES	
L0052688	0	0.60950E-07	544175.4	3756368.9	304.0	0.00	1.70	0.76	YES	
L0052689	0	0.60950E-07	544179.0	3756368.9	303.9	0.00	1.70	0.76	YES	
L0052690	0	0.60950E-07	544182.7	3756369.0	303.9	0.00	1.70	0.76	YES	
L0052691	0	0.60950E-07	544186.3	3756369.0	303.8	0.00	1.70	0.76	YES	
L0052692	0	0.60950E-07	544190.0	3756369.0	303.8	0.00	1.70	0.76	YES	
L0052693	0	0.60950E-07	544193.7	3756369.0	303.8	0.00	1.70	0.76	YES	
L0052694	0	0.60950E-07	544197.3	3756369.1	303.7	0.00	1.70	0.76	YES	
L0052695	0	0.60950E-07	544201.0	3756369.1	303.7	0.00	1.70	0.76	YES	
L0052696	0	0.60950E-07	544204.6	3756369.1	303.6	0.00	1.70	0.76	YES	
L0052697	0	0.60950E-07	544208.3	3756369.1	303.6	0.00	1.70	0.76	YES	
L0052698	0	0.60950E-07	544211.9	3756369.2	303.5	0.00	1.70	0.76	YES	
L0052699	0	0.60950E-07	544215.6	3756369.2	303.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0052700	0	0.60950E-07	544219.3	3756369.2	303.5	0.00	1.70	0.76	YES	
L0052701	0	0.60950E-07	544222.9	3756369.2	303.4	0.00	1.70	0.76	YES	
L0052702	0	0.60950E-07	544226.6	3756369.3	303.4	0.00	1.70	0.76	YES	
L0052703	0	0.60950E-07	544230.2	3756369.3	303.4	0.00	1.70	0.76	YES	
L0052704	0	0.60950E-07	544233.9	3756369.3	303.3	0.00	1.70	0.76	YES	
L0052705	0	0.60950E-07	544237.5	3756369.3	303.3	0.00	1.70	0.76	YES	
L0052706	0	0.60950E-07	544241.2	3756369.4	303.3	0.00	1.70	0.76	YES	
L0052707	0	0.60950E-07	544244.9	3756369.4	303.2	0.00	1.70	0.76	YES	
L0052708	0	0.60950E-07	544248.5	3756369.4	303.2	0.00	1.70	0.76	YES	
L0052709	0	0.60950E-07	544252.2	3756369.4	303.1	0.00	1.70	0.76	YES	
L0052710	0	0.60950E-07	544255.8	3756369.5	303.1	0.00	1.70	0.76	YES	
L0052711	0	0.60950E-07	544259.5	3756369.5	303.0	0.00	1.70	0.76	YES	
L0052712	0	0.60950E-07	544263.1	3756369.5	303.0	0.00	1.70	0.76	YES	
L0052713	0	0.60950E-07	544266.8	3756369.5	303.0	0.00	1.70	0.76	YES	
L0052714	0	0.60950E-07	544270.5	3756369.6	302.9	0.00	1.70	0.76	YES	
L0052715	0	0.60950E-07	544274.1	3756369.6	302.9	0.00	1.70	0.76	YES	
L0052716	0	0.60950E-07	544277.8	3756369.6	302.9	0.00	1.70	0.76	YES	
L0052717	0	0.60950E-07	544281.4	3756369.6	302.8	0.00	1.70	0.76	YES	
L0052718	0	0.60950E-07	544285.1	3756369.7	302.8	0.00	1.70	0.76	YES	
L0052719	0	0.60950E-07	544288.7	3756369.7	302.8	0.00	1.70	0.76	YES	

L0052720	0	0.60950E-07	544292.4	3756369.7	302.7	0.00	1.70	0.76	YES	
L0052721	0	0.60950E-07	544296.1	3756369.7	302.7	0.00	1.70	0.76	YES	
L0052722	0	0.60950E-07	544299.7	3756369.8	302.7	0.00	1.70	0.76	YES	
L0052723	0	0.60950E-07	544303.4	3756369.8	302.7	0.00	1.70	0.76	YES	
L0052724	0	0.60950E-07	544307.0	3756369.8	302.6	0.00	1.70	0.76	YES	
L0052725	0	0.60950E-07	544310.7	3756369.8	302.6	0.00	1.70	0.76	YES	
L0052726	0	0.60950E-07	544314.4	3756369.9	302.6	0.00	1.70	0.76	YES	
L0052727	0	0.60950E-07	544318.0	3756369.9	302.6	0.00	1.70	0.76	YES	
L0052728	0	0.60950E-07	544321.7	3756369.9	302.5	0.00	1.70	0.76	YES	
L0052729	0	0.60950E-07	544325.3	3756369.9	302.5	0.00	1.70	0.76	YES	
L0052730	0	0.60950E-07	544329.0	3756370.0	302.5	0.00	1.70	0.76	YES	
L0052731	0	0.60950E-07	544332.6	3756370.0	302.4	0.00	1.70	0.76	YES	
L0052732	0	0.60950E-07	544336.3	3756370.0	302.4	0.00	1.70	0.76	YES	
L0052733	0	0.60950E-07	544340.0	3756370.0	302.4	0.00	1.70	0.76	YES	
L0052734	0	0.60950E-07	544343.6	3756370.1	302.3	0.00	1.70	0.76	YES	
L0052735	0	0.60950E-07	544347.3	3756370.1	302.2	0.00	1.70	0.76	YES	
L0052736	0	0.60950E-07	544350.9	3756370.1	302.2	0.00	1.70	0.76	YES	
L0052737	0	0.60950E-07	544354.6	3756370.1	302.1	0.00	1.70	0.76	YES	
L0052738	0	0.60950E-07	544358.2	3756370.2	302.1	0.00	1.70	0.76	YES	
L0052739	0	0.60950E-07	544361.9	3756370.2	302.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0052740	0	0.60950E-07	544365.6	3756370.2	301.9	0.00	1.70	0.76	YES	
L0052741	0	0.60950E-07	544369.2	3756370.2	301.8	0.00	1.70	0.76	YES	
L0052742	0	0.60950E-07	544372.9	3756370.3	301.5	0.00	1.70	0.76	YES	
L0052743	0	0.60950E-07	544376.5	3756370.3	301.2	0.00	1.70	0.76	YES	
L0052744	0	0.60950E-07	544380.2	3756370.3	301.0	0.00	1.70	0.76	YES	
L0052745	0	0.60950E-07	544383.8	3756370.3	300.7	0.00	1.70	0.76	YES	
L0052746	0	0.60950E-07	544387.5	3756370.4	300.5	0.00	1.70	0.76	YES	
L0052747	0	0.60950E-07	544391.2	3756370.4	300.2	0.00	1.70	0.76	YES	
L0052748	0	0.60950E-07	544394.8	3756370.4	300.1	0.00	1.70	0.76	YES	
L0052749	0	0.60950E-07	544398.5	3756370.4	300.1	0.00	1.70	0.76	YES	
L0052750	0	0.60950E-07	544402.1	3756370.5	300.2	0.00	1.70	0.76	YES	
L0052751	0	0.60950E-07	544405.8	3756370.5	300.2	0.00	1.70	0.76	YES	
L0052752	0	0.60950E-07	544409.4	3756370.5	300.3	0.00	1.70	0.76	YES	
L0052753	0	0.60950E-07	544413.1	3756370.5	300.3	0.00	1.70	0.76	YES	
L0052754	0	0.60950E-07	544416.8	3756370.5	300.4	0.00	1.70	0.76	YES	
L0052755	0	0.60950E-07	544420.4	3756370.6	300.4	0.00	1.70	0.76	YES	
L0052756	0	0.60950E-07	544424.1	3756370.6	300.4	0.00	1.70	0.76	YES	

L0052757	0	0.60950E-07	544427.7	3756370.6	300.3	0.00	1.70	0.76	YES
L0052758	0	0.60950E-07	544431.4	3756370.6	300.3	0.00	1.70	0.76	YES
L0052759	0	0.60950E-07	544435.0	3756370.7	300.2	0.00	1.70	0.76	YES
L0052760	0	0.60950E-07	544438.7	3756370.7	300.2	0.00	1.70	0.76	YES
L0052761	0	0.60950E-07	544442.4	3756370.7	300.2	0.00	1.70	0.76	YES
L0052762	0	0.60950E-07	544446.0	3756370.7	300.1	0.00	1.70	0.76	YES
L0052763	0	0.60950E-07	544449.7	3756370.8	300.0	0.00	1.70	0.76	YES
L0052764	0	0.60950E-07	544453.3	3756370.8	299.9	0.00	1.70	0.76	YES
L0052765	0	0.60950E-07	544457.0	3756370.8	299.9	0.00	1.70	0.76	YES
L0052766	0	0.60950E-07	544460.7	3756370.8	299.8	0.00	1.70	0.76	YES
L0052767	0	0.60950E-07	544464.3	3756370.9	299.7	0.00	1.70	0.76	YES
L0052768	0	0.60950E-07	544468.0	3756370.9	299.6	0.00	1.70	0.76	YES
L0052769	0	0.60950E-07	544471.6	3756370.9	299.6	0.00	1.70	0.76	YES
L0052770	0	0.60950E-07	544475.3	3756370.9	299.6	0.00	1.70	0.76	YES
L0052771	0	0.60950E-07	544478.9	3756371.0	299.6	0.00	1.70	0.76	YES
L0052772	0	0.60950E-07	544482.6	3756371.0	299.6	0.00	1.70	0.76	YES
L0052773	0	0.60950E-07	544486.3	3756371.0	299.6	0.00	1.70	0.76	YES
L0052774	0	0.60950E-07	544489.9	3756371.0	299.7	0.00	1.70	0.76	YES
L0052775	0	0.60950E-07	544493.6	3756371.1	299.7	0.00	1.70	0.76	YES
L0052776	0	0.60950E-07	544497.2	3756371.1	299.8	0.00	1.70	0.76	YES
L0052777	0	0.60950E-07	544500.9	3756371.1	300.1	0.00	1.70	0.76	YES
L0052778	0	0.60950E-07	544504.5	3756371.1	300.3	0.00	1.70	0.76	YES
L0052779	0	0.60950E-07	544508.2	3756371.2	300.6	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0052780	0	0.60950E-07	544511.9	3756371.2	300.9	0.00	1.70	0.76	YES	
L0052781	0	0.60950E-07	544515.5	3756371.2	301.1	0.00	1.70	0.76	YES	
L0052782	0	0.60950E-07	544519.2	3756371.2	301.4	0.00	1.70	0.76	YES	
L0052783	0	0.60950E-07	544522.8	3756371.3	301.6	0.00	1.70	0.76	YES	
L0052784	0	0.60950E-07	544526.5	3756371.3	301.5	0.00	1.70	0.76	YES	
L0052785	0	0.60950E-07	544530.1	3756371.3	301.5	0.00	1.70	0.76	YES	
L0052786	0	0.60950E-07	544533.8	3756371.3	301.5	0.00	1.70	0.76	YES	
L0052787	0	0.60950E-07	544537.5	3756371.4	301.4	0.00	1.70	0.76	YES	
L0052788	0	0.60950E-07	544541.1	3756371.4	301.4	0.00	1.70	0.76	YES	
L0052789	0	0.60950E-07	544544.8	3756371.4	301.4	0.00	1.70	0.76	YES	
L0052790	0	0.60950E-07	544548.4	3756371.4	301.3	0.00	1.70	0.76	YES	
L0052791	0	0.60950E-07	544552.1	3756371.5	301.3	0.00	1.70	0.76	YES	
L0052792	0	0.60950E-07	544555.7	3756371.5	301.2	0.00	1.70	0.76	YES	
L0052793	0	0.60950E-07	544559.4	3756371.5	301.2	0.00	1.70	0.76	YES	

L0052794	0	0.60950E-07	544563.1	3756371.5	301.1	0.00	1.70	0.76	YES	
L0052795	0	0.60950E-07	544566.7	3756371.6	301.1	0.00	1.70	0.76	YES	
L0052796	0	0.60950E-07	544570.4	3756371.6	301.0	0.00	1.70	0.76	YES	
L0052797	0	0.60950E-07	544574.0	3756371.6	301.0	0.00	1.70	0.76	YES	
L0052798	0	0.60950E-07	544577.7	3756371.6	300.9	0.00	1.70	0.76	YES	
L0052799	0	0.60950E-07	544581.3	3756371.7	300.9	0.00	1.70	0.76	YES	
L0052800	0	0.60950E-07	544585.0	3756371.7	300.8	0.00	1.70	0.76	YES	
L0052801	0	0.60950E-07	544588.7	3756371.7	300.8	0.00	1.70	0.76	YES	
L0052802	0	0.60950E-07	544592.3	3756371.7	300.7	0.00	1.70	0.76	YES	
L0052803	0	0.60950E-07	544596.0	3756371.8	300.6	0.00	1.70	0.76	YES	
L0052804	0	0.60950E-07	544599.6	3756371.8	300.6	0.00	1.70	0.76	YES	
L0052805	0	0.60950E-07	544603.3	3756371.8	300.5	0.00	1.70	0.76	YES	
L0052806	0	0.60950E-07	544607.0	3756371.8	300.4	0.00	1.70	0.76	YES	
L0052807	0	0.60950E-07	544610.6	3756371.9	300.4	0.00	1.70	0.76	YES	
L0052808	0	0.60950E-07	544614.3	3756371.9	300.3	0.00	1.70	0.76	YES	
L0052809	0	0.60950E-07	544617.9	3756371.9	300.2	0.00	1.70	0.76	YES	
L0052810	0	0.60950E-07	544621.6	3756371.9	300.2	0.00	1.70	0.76	YES	
L0052811	0	0.60950E-07	544625.2	3756372.0	300.1	0.00	1.70	0.76	YES	
L0052812	0	0.60950E-07	544628.9	3756372.0	300.0	0.00	1.70	0.76	YES	
L0052813	0	0.60950E-07	544632.6	3756372.0	300.0	0.00	1.70	0.76	YES	
L0052814	0	0.60950E-07	544636.2	3756372.0	299.9	0.00	1.70	0.76	YES	
L0052815	0	0.60950E-07	544639.9	3756372.1	299.8	0.00	1.70	0.76	YES	
L0052816	0	0.60950E-07	544643.5	3756372.1	299.8	0.00	1.70	0.76	YES	
L0052817	0	0.60950E-07	544647.2	3756372.1	299.7	0.00	1.70	0.76	YES	
L0052818	0	0.60950E-07	544650.8	3756372.1	299.6	0.00	1.70	0.76	YES	
L0052819	0	0.60950E-07	544654.5	3756372.2	299.6	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0052820	0	0.60950E-07	544658.2	3756372.2	299.6	0.00	1.70	0.76	YES	
L0052821	0	0.60950E-07	544661.8	3756372.2	299.5	0.00	1.70	0.76	YES	
L0052822	0	0.60950E-07	544665.5	3756372.2	299.5	0.00	1.70	0.76	YES	
L0052823	0	0.60950E-07	544669.1	3756372.3	299.4	0.00	1.70	0.76	YES	
L0052824	0	0.60950E-07	544672.8	3756372.3	299.4	0.00	1.70	0.76	YES	
L0052825	0	0.60950E-07	544676.4	3756372.3	299.4	0.00	1.70	0.76	YES	
L0052826	0	0.60950E-07	544680.1	3756372.3	299.3	0.00	1.70	0.76	YES	
L0052827	0	0.60950E-07	544683.8	3756372.4	299.3	0.00	1.70	0.76	YES	
L0052828	0	0.60950E-07	544687.4	3756372.4	299.3	0.00	1.70	0.76	YES	
L0052829	0	0.60950E-07	544691.1	3756372.4	299.3	0.00	1.70	0.76	YES	
L0052830	0	0.60950E-07	544694.7	3756372.4	299.3	0.00	1.70	0.76	YES	

L0052831	0	0.60950E-07	544698.4	3756372.5	299.2	0.00	1.70	0.76	YES	
L0052832	0	0.60950E-07	544702.0	3756372.5	299.2	0.00	1.70	0.76	YES	
L0052833	0	0.60950E-07	544705.7	3756372.5	299.2	0.00	1.70	0.76	YES	
L0052834	0	0.60950E-07	544709.4	3756372.5	299.2	0.00	1.70	0.76	YES	
L0052835	0	0.60950E-07	544713.0	3756372.6	299.2	0.00	1.70	0.76	YES	
L0052836	0	0.60950E-07	544716.7	3756372.6	299.2	0.00	1.70	0.76	YES	
L0052837	0	0.60950E-07	544720.3	3756372.6	299.1	0.00	1.70	0.76	YES	
L0052838	0	0.60950E-07	544724.0	3756372.6	299.1	0.00	1.70	0.76	YES	
L0052839	0	0.60950E-07	544727.6	3756372.7	299.1	0.00	1.70	0.76	YES	
L0052840	0	0.60950E-07	544731.3	3756372.7	299.1	0.00	1.70	0.76	YES	
L0052841	0	0.60950E-07	544735.0	3756372.7	299.0	0.00	1.70	0.76	YES	
L0052842	0	0.60950E-07	544738.6	3756372.7	299.0	0.00	1.70	0.76	YES	
L0052843	0	0.60950E-07	544742.3	3756372.8	299.0	0.00	1.70	0.76	YES	
L0052844	0	0.60950E-07	544745.9	3756372.8	299.0	0.00	1.70	0.76	YES	
L0052845	0	0.60950E-07	544749.6	3756372.8	298.9	0.00	1.70	0.76	YES	
L0052846	0	0.60950E-07	544753.3	3756372.8	298.9	0.00	1.70	0.76	YES	
L0052847	0	0.60950E-07	544756.9	3756372.8	298.9	0.00	1.70	0.76	YES	
L0052848	0	0.60950E-07	544760.6	3756372.9	298.9	0.00	1.70	0.76	YES	
L0052849	0	0.60950E-07	544764.2	3756372.9	298.8	0.00	1.70	0.76	YES	
L0052850	0	0.60950E-07	544767.9	3756372.9	298.8	0.00	1.70	0.76	YES	
L0052851	0	0.60950E-07	544771.5	3756372.9	298.8	0.00	1.70	0.76	YES	
L0052852	0	0.60950E-07	544775.2	3756373.0	298.7	0.00	1.70	0.76	YES	
L0052853	0	0.60950E-07	544778.9	3756373.0	298.7	0.00	1.70	0.76	YES	
L0052854	0	0.60950E-07	544782.5	3756373.0	298.7	0.00	1.70	0.76	YES	
L0052855	0	0.60950E-07	544786.2	3756373.0	298.7	0.00	1.70	0.76	YES	
L0052856	0	0.60950E-07	544789.8	3756373.1	298.7	0.00	1.70	0.76	YES	
L0052857	0	0.60950E-07	544793.5	3756373.1	298.6	0.00	1.70	0.76	YES	
L0052858	0	0.60950E-07	544797.1	3756373.1	298.6	0.00	1.70	0.76	YES	
L0052859	0	0.60950E-07	544800.8	3756373.1	298.6	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0052860	0	0.60950E-07	544804.5	3756373.2	298.6	0.00	1.70	0.76	YES	
L0052861	0	0.60950E-07	544808.1	3756373.2	298.5	0.00	1.70	0.76	YES	
L0052862	0	0.60950E-07	544811.8	3756373.2	298.5	0.00	1.70	0.76	YES	
L0052863	0	0.60950E-07	544815.4	3756373.2	298.5	0.00	1.70	0.76	YES	
L0052864	0	0.60950E-07	544819.1	3756373.3	298.4	0.00	1.70	0.76	YES	
L0052865	0	0.60950E-07	544822.7	3756373.3	298.4	0.00	1.70	0.76	YES	
L0052866	0	0.60950E-07	544826.4	3756373.3	298.4	0.00	1.70	0.76	YES	
L0052867	0	0.60950E-07	544830.1	3756373.3	298.3	0.00	1.70	0.76	YES	

L0052868	0	0.60950E-07	544833.7	3756373.4	298.3	0.00	1.70	0.76	YES
L0052869	0	0.60950E-07	544837.4	3756373.4	298.3	0.00	1.70	0.76	YES
L0052870	0	0.60950E-07	544841.0	3756373.4	298.2	0.00	1.70	0.76	YES
L0052871	0	0.60950E-07	544844.7	3756373.4	298.2	0.00	1.70	0.76	YES
L0052872	0	0.60950E-07	544848.3	3756373.5	298.2	0.00	1.70	0.76	YES
L0052873	0	0.60950E-07	544852.0	3756373.5	298.2	0.00	1.70	0.76	YES
L0052874	0	0.60950E-07	544855.7	3756373.5	298.1	0.00	1.70	0.76	YES
L0052875	0	0.60950E-07	544859.3	3756373.5	298.1	0.00	1.70	0.76	YES
L0052876	0	0.60950E-07	544863.0	3756373.6	298.1	0.00	1.70	0.76	YES
L0052877	0	0.60950E-07	544866.6	3756373.6	298.1	0.00	1.70	0.76	YES
L0052878	0	0.60950E-07	544870.3	3756373.6	298.0	0.00	1.70	0.76	YES
L0052879	0	0.60950E-07	544874.0	3756373.6	298.0	0.00	1.70	0.76	YES
L0052880	0	0.60950E-07	544877.6	3756373.7	298.0	0.00	1.70	0.76	YES
L0052881	0	0.60950E-07	544881.3	3756373.7	297.9	0.00	1.70	0.76	YES
L0052882	0	0.60950E-07	544884.9	3756373.7	297.9	0.00	1.70	0.76	YES
L0052883	0	0.60950E-07	544888.6	3756373.7	297.9	0.00	1.70	0.76	YES
L0052884	0	0.60950E-07	544892.2	3756373.8	297.9	0.00	1.70	0.76	YES
L0052885	0	0.60950E-07	544895.9	3756373.8	297.9	0.00	1.70	0.76	YES
L0052886	0	0.60950E-07	544899.6	3756373.8	297.8	0.00	1.70	0.76	YES
L0052887	0	0.60950E-07	544903.2	3756373.8	297.8	0.00	1.70	0.76	YES
L0052888	0	0.60950E-07	544906.9	3756373.9	297.8	0.00	1.70	0.76	YES
L0052889	0	0.60950E-07	544910.5	3756373.9	297.8	0.00	1.70	0.76	YES
L0052890	0	0.60950E-07	544914.2	3756373.9	297.7	0.00	1.70	0.76	YES
L0052891	0	0.60950E-07	544917.8	3756373.9	297.7	0.00	1.70	0.76	YES
L0052892	0	0.60950E-07	544921.5	3756374.0	297.7	0.00	1.70	0.76	YES
L0052893	0	0.60950E-07	544925.2	3756374.0	297.7	0.00	1.70	0.76	YES
L0052894	0	0.60950E-07	544928.8	3756374.0	297.6	0.00	1.70	0.76	YES
L0052895	0	0.60950E-07	544932.5	3756374.0	297.6	0.00	1.70	0.76	YES
L0052896	0	0.60950E-07	544936.1	3756374.1	297.6	0.00	1.70	0.76	YES
L0052897	0	0.60950E-07	544939.8	3756374.1	297.5	0.00	1.70	0.76	YES
L0052898	0	0.60950E-07	544943.4	3756374.1	297.5	0.00	1.70	0.76	YES
L0052899	0	0.60950E-07	544947.1	3756374.1	297.5	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0052900	0	0.60950E-07	544950.8	3756374.2	297.4	0.00	1.70	0.76	YES	
L0052901	0	0.60950E-07	544954.4	3756374.2	297.4	0.00	1.70	0.76	YES	
L0052902	0	0.60950E-07	544958.1	3756374.2	297.4	0.00	1.70	0.76	YES	
L0052903	0	0.60950E-07	544961.7	3756374.2	297.3	0.00	1.70	0.76	YES	
L0052904	0	0.60950E-07	544965.4	3756374.3	297.3	0.00	1.70	0.76	YES	

L0052905	0	0.60950E-07	544969.0	3756374.3	297.2	0.00	1.70	0.76	YES	
L0052906	0	0.60950E-07	544972.7	3756374.3	297.2	0.00	1.70	0.76	YES	
L0052907	0	0.60950E-07	544976.4	3756374.3	297.1	0.00	1.70	0.76	YES	
L0052908	0	0.60950E-07	544980.0	3756374.4	297.1	0.00	1.70	0.76	YES	
L0052909	0	0.60950E-07	544983.7	3756374.4	297.1	0.00	1.70	0.76	YES	
L0052910	0	0.60950E-07	544987.3	3756374.4	297.0	0.00	1.70	0.76	YES	
L0052911	0	0.60950E-07	544991.0	3756374.3	297.0	0.00	1.70	0.76	YES	
L0052912	0	0.60950E-07	544994.6	3756374.3	296.9	0.00	1.70	0.76	YES	
L0052913	0	0.60950E-07	544998.3	3756374.3	296.9	0.00	1.70	0.76	YES	
L0052914	0	0.60950E-07	545002.0	3756374.2	296.9	0.00	1.70	0.76	YES	
L0052915	0	0.60950E-07	545005.6	3756374.2	296.8	0.00	1.70	0.76	YES	
L0052916	0	0.60950E-07	545009.3	3756374.2	296.8	0.00	1.70	0.76	YES	
L0052917	0	0.60950E-07	545012.9	3756374.1	296.7	0.00	1.70	0.76	YES	
L0052918	0	0.60950E-07	545016.6	3756374.1	296.7	0.00	1.70	0.76	YES	
L0052919	0	0.60950E-07	545020.2	3756374.1	296.6	0.00	1.70	0.76	YES	
L0052920	0	0.60950E-07	545023.9	3756374.0	296.6	0.00	1.70	0.76	YES	
L0052921	0	0.60950E-07	545027.6	3756374.0	296.5	0.00	1.70	0.76	YES	
L0052922	0	0.60950E-07	545031.2	3756374.0	296.5	0.00	1.70	0.76	YES	
L0052923	0	0.60950E-07	545034.9	3756374.0	296.4	0.00	1.70	0.76	YES	
L0052924	0	0.60950E-07	545038.5	3756373.9	296.4	0.00	1.70	0.76	YES	
L0052925	0	0.60950E-07	545042.2	3756373.9	296.4	0.00	1.70	0.76	YES	
L0052926	0	0.60950E-07	545045.9	3756373.9	296.4	0.00	1.70	0.76	YES	
L0052927	0	0.60950E-07	545049.5	3756373.8	296.4	0.00	1.70	0.76	YES	
L0052928	0	0.60950E-07	545053.2	3756373.8	296.4	0.00	1.70	0.76	YES	
L0052929	0	0.60950E-07	545056.8	3756373.8	296.4	0.00	1.70	0.76	YES	
L0052930	0	0.60950E-07	545060.5	3756373.7	296.4	0.00	1.70	0.76	YES	
L0052931	0	0.60950E-07	545064.1	3756373.7	296.3	0.00	1.70	0.76	YES	
L0052932	0	0.60950E-07	545067.8	3756373.7	296.2	0.00	1.70	0.76	YES	
L0052933	0	0.60950E-07	545071.5	3756373.6	296.2	0.00	1.70	0.76	YES	
L0052934	0	0.60950E-07	545075.1	3756373.6	296.1	0.00	1.70	0.76	YES	
L0052935	0	0.60950E-07	545078.8	3756373.6	296.1	0.00	1.70	0.76	YES	
L0052936	0	0.60950E-07	545082.4	3756373.6	296.0	0.00	1.70	0.76	YES	
L0052937	0	0.60950E-07	545086.1	3756373.5	295.9	0.00	1.70	0.76	YES	
L0052938	0	0.60950E-07	545089.7	3756373.5	295.9	0.00	1.70	0.76	YES	
L0052939	0	0.60950E-07	545093.4	3756373.5	296.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0052940	0	0.60950E-07	545097.1	3756373.4	296.0	0.00	1.70	0.76	YES	
L0052941	0	0.60950E-07	545100.7	3756373.4	296.0	0.00	1.70	0.76	YES	

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L0052942         0   0.60950E-07  545104.4 3756373.4   296.0     0.00     1.70     0.76     YES
L0052943         0   0.60950E-07  545108.0 3756373.3   296.0     0.00     1.70     0.76     YES
L0052944         0   0.60950E-07  545111.7 3756373.3   296.0     0.00     1.70     0.76     YES
L0052945         0   0.60950E-07  545115.3 3756373.3   296.0     0.00     1.70     0.76     YES
L0052946         0   0.60950E-07  545119.0 3756373.2   295.9     0.00     1.70     0.76     YES
L0052947         0   0.60950E-07  545122.7 3756373.2   295.9     0.00     1.70     0.76     YES
L0052948         0   0.60950E-07  545126.3 3756373.2   295.8     0.00     1.70     0.76     YES
L0052949         0   0.60950E-07  545130.0 3756373.2   295.8     0.00     1.70     0.76     YES
L0052950         0   0.60950E-07  545133.6 3756373.1   295.7     0.00     1.70     0.76     YES
L0052951         0   0.60950E-07  545137.3 3756373.1   295.7     0.00     1.70     0.76     YES
L0052952         0   0.60950E-07  545140.9 3756373.1   295.6     0.00     1.70     0.76     YES
L0052953         0   0.60950E-07  545144.6 3756373.0   295.6     0.00     1.70     0.76     YES
L0052954         0   0.60950E-07  545148.3 3756373.0   295.6     0.00     1.70     0.76     YES
L0052955         0   0.60950E-07  545151.9 3756373.0   295.5     0.00     1.70     0.76     YES
L0052956         0   0.60950E-07  545155.6 3756372.9   295.5     0.00     1.70     0.76     YES
L0052957         0   0.60950E-07  545159.2 3756372.9   295.5     0.00     1.70     0.76     YES
L0052958         0   0.60950E-07  545162.9 3756372.9   295.4     0.00     1.70     0.76     YES
L0052959         0   0.60950E-07  545166.5 3756372.8   295.4     0.00     1.70     0.76     YES
L0052960         0   0.60950E-07  545170.2 3756372.8   295.4     0.00     1.70     0.76     YES
L0052961         0   0.60950E-07  545173.9 3756372.8   295.4     0.00     1.70     0.76     YES
L0052962         0   0.60950E-07  545177.5 3756372.8   295.4     0.00     1.70     0.76     YES
L0052963         0   0.60950E-07  545181.2 3756372.7   295.4     0.00     1.70     0.76     YES
L0052964         0   0.60950E-07  545184.8 3756372.7   295.4     0.00     1.70     0.76     YES
L0052965         0   0.60950E-07  545188.5 3756372.7   295.4     0.00     1.70     0.76     YES
L0052966         0   0.60950E-07  545192.2 3756372.6   295.4     0.00     1.70     0.76     YES
L0052967         0   0.60950E-07  545195.8 3756372.6   295.3     0.00     1.70     0.76     YES
L0052968         0   0.60950E-07  545199.5 3756372.6   295.3     0.00     1.70     0.76     YES
L0052969         0   0.60950E-07  545203.1 3756372.5   295.3     0.00     1.70     0.76     YES
L0052970         0   0.60950E-07  545206.8 3756372.5   295.2     0.00     1.70     0.76     YES
L0052971         0   0.60950E-07  545210.4 3756372.5   295.2     0.00     1.70     0.76     YES
L0052972         0   0.60950E-07  545214.1 3756372.4   295.2     0.00     1.70     0.76     YES
L0052973         0   0.60950E-07  545217.8 3756372.4   295.1     0.00     1.70     0.76     YES
L0052974         0   0.60950E-07  545221.4 3756372.4   295.1     0.00     1.70     0.76     YES
L0052975         0   0.60950E-07  545225.1 3756372.4   295.1     0.00     1.70     0.76     YES
L0052976         0   0.60950E-07  545228.7 3756372.3   295.1     0.00     1.70     0.76     YES
L0052977         0   0.60950E-07  545232.4 3756372.3   295.1     0.00     1.70     0.76     YES
L0052978         0   0.60950E-07  545236.0 3756372.3   295.1     0.00     1.70     0.76     YES
L0052979         0   0.60950E-07  545239.7 3756372.2   295.0     0.00     1.70     0.76     YES
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY

L0052980	0	0.60950E-07	545243.4	3756372.2	295.0	0.00	1.70	0.76	YES
L0052981	0	0.60950E-07	545247.0	3756372.2	295.0	0.00	1.70	0.76	YES
L0052982	0	0.60950E-07	545250.7	3756372.1	294.9	0.00	1.70	0.76	YES
L0052983	0	0.60950E-07	545254.3	3756372.1	294.9	0.00	1.70	0.76	YES
L0052984	0	0.60950E-07	545258.0	3756372.1	294.9	0.00	1.70	0.76	YES
L0052985	0	0.60950E-07	545261.6	3756372.0	294.9	0.00	1.70	0.76	YES
L0052986	0	0.60950E-07	545265.3	3756372.0	294.9	0.00	1.70	0.76	YES
L0052987	0	0.60950E-07	545269.0	3756372.0	294.8	0.00	1.70	0.76	YES
L0052988	0	0.60950E-07	545272.6	3756372.0	294.8	0.00	1.70	0.76	YES
L0052989	0	0.60950E-07	545276.3	3756371.9	294.8	0.00	1.70	0.76	YES
L0052990	0	0.60950E-07	545279.9	3756371.9	294.8	0.00	1.70	0.76	YES
L0052991	0	0.60950E-07	545283.6	3756371.9	294.7	0.00	1.70	0.76	YES
L0052992	0	0.60950E-07	545287.2	3756371.8	294.7	0.00	1.70	0.76	YES
L0052993	0	0.60950E-07	545290.9	3756371.8	294.7	0.00	1.70	0.76	YES
L0052994	0	0.60950E-07	545294.6	3756371.8	294.7	0.00	1.70	0.76	YES
L0052995	0	0.60950E-07	545298.2	3756371.7	294.6	0.00	1.70	0.76	YES
L0052996	0	0.60950E-07	545301.9	3756371.7	294.6	0.00	1.70	0.76	YES
L0052997	0	0.60950E-07	545305.5	3756371.7	294.6	0.00	1.70	0.76	YES
L0052998	0	0.60950E-07	545309.2	3756371.6	294.6	0.00	1.70	0.76	YES
L0052999	0	0.60950E-07	545312.8	3756371.6	294.6	0.00	1.70	0.76	YES
L0053000	0	0.60950E-07	545316.5	3756371.6	294.5	0.00	1.70	0.76	YES
L0053001	0	0.60950E-07	545320.2	3756371.6	294.5	0.00	1.70	0.76	YES
L0053002	0	0.60950E-07	545323.8	3756371.5	294.5	0.00	1.70	0.76	YES
L0053003	0	0.60950E-07	545327.5	3756371.5	294.4	0.00	1.70	0.76	YES
L0053004	0	0.60950E-07	545331.1	3756371.5	294.4	0.00	1.70	0.76	YES
L0053005	0	0.60950E-07	545334.8	3756371.4	294.4	0.00	1.70	0.76	YES
L0053006	0	0.60950E-07	545338.5	3756371.4	294.4	0.00	1.70	0.76	YES
L0053007	0	0.60950E-07	545342.1	3756371.4	294.3	0.00	1.70	0.76	YES
L0053008	0	0.60950E-07	545345.8	3756371.3	294.3	0.00	1.70	0.76	YES
L0053009	0	0.60950E-07	545349.4	3756371.3	294.3	0.00	1.70	0.76	YES
L0053010	0	0.60950E-07	545353.1	3756371.3	294.2	0.00	1.70	0.76	YES
L0053011	0	0.60950E-07	545356.7	3756371.2	294.2	0.00	1.70	0.76	YES
L0053012	0	0.60950E-07	545360.4	3756371.2	294.2	0.00	1.70	0.76	YES
L0053013	0	0.60950E-07	545364.1	3756371.2	294.1	0.00	1.70	0.76	YES
L0053014	0	0.60950E-07	545367.7	3756371.2	294.1	0.00	1.70	0.76	YES
L0053015	0	0.60950E-07	545371.4	3756371.1	294.0	0.00	1.70	0.76	YES
L0053016	0	0.60950E-07	545375.0	3756371.1	294.0	0.00	1.70	0.76	YES
L0053017	0	0.60950E-07	545378.7	3756371.1	293.9	0.00	1.70	0.76	YES
L0053018	0	0.60950E-07	545382.3	3756371.0	293.9	0.00	1.70	0.76	YES
L0053019	0	0.60950E-07	545386.0	3756371.0	293.8	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER	EMISSION RATE	BASE	RELEASE	INIT.	INIT.	URBAN	EMISSION RATE

SOURCE ID	PART. CATS.	(GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE	SCALAR VARY BY
L0053020	0	0.60950E-07	545389.7	3756371.0	293.8	0.00	1.70	0.76	YES	
L0053021	0	0.60950E-07	545393.3	3756370.9	293.7	0.00	1.70	0.76	YES	
L0053022	0	0.60950E-07	545397.0	3756370.9	293.7	0.00	1.70	0.76	YES	
L0053023	0	0.60950E-07	545400.6	3756370.9	293.6	0.00	1.70	0.76	YES	
L0053024	0	0.60950E-07	545404.3	3756370.8	293.6	0.00	1.70	0.76	YES	
L0053025	0	0.60950E-07	545407.9	3756370.8	293.5	0.00	1.70	0.76	YES	
L0053026	0	0.60950E-07	545411.6	3756370.8	293.5	0.00	1.70	0.76	YES	
L0053027	0	0.60950E-07	545415.3	3756370.8	293.4	0.00	1.70	0.76	YES	
L0053028	0	0.60950E-07	545418.9	3756370.7	293.4	0.00	1.70	0.76	YES	
L0053029	0	0.60950E-07	545422.6	3756370.7	293.3	0.00	1.70	0.76	YES	
L0053030	0	0.60950E-07	545426.2	3756370.7	293.3	0.00	1.70	0.76	YES	
L0053031	0	0.60950E-07	545429.9	3756370.6	293.3	0.00	1.70	0.76	YES	
L0053032	0	0.60950E-07	545433.5	3756370.6	293.2	0.00	1.70	0.76	YES	
L0053033	0	0.60950E-07	545437.2	3756370.6	293.2	0.00	1.70	0.76	YES	
L0053034	0	0.60950E-07	545440.9	3756370.5	293.2	0.00	1.70	0.76	YES	
L0053035	0	0.60950E-07	545444.5	3756370.5	293.1	0.00	1.70	0.76	YES	
L0053036	0	0.60950E-07	545448.2	3756370.5	293.1	0.00	1.70	0.76	YES	
L0053037	0	0.60950E-07	545451.8	3756370.4	293.1	0.00	1.70	0.76	YES	
L0053038	0	0.60950E-07	545455.5	3756370.4	293.1	0.00	1.70	0.76	YES	
L0053039	0	0.60950E-07	545459.1	3756370.4	293.0	0.00	1.70	0.76	YES	
L0053040	0	0.60950E-07	545462.8	3756370.4	293.0	0.00	1.70	0.76	YES	
L0053041	0	0.60950E-07	545466.5	3756370.3	293.0	0.00	1.70	0.76	YES	
L0053042	0	0.60950E-07	545470.1	3756370.3	292.9	0.00	1.70	0.76	YES	
L0053043	0	0.60950E-07	545473.8	3756370.3	292.9	0.00	1.70	0.76	YES	
L0053044	0	0.60950E-07	545477.4	3756370.2	292.9	0.00	1.70	0.76	YES	
L0053045	0	0.60950E-07	545481.1	3756370.2	292.8	0.00	1.70	0.76	YES	
L0053046	0	0.60950E-07	545484.7	3756370.2	292.8	0.00	1.70	0.76	YES	
L0053047	0	0.60950E-07	545488.4	3756370.1	292.8	0.00	1.70	0.76	YES	
L0053048	0	0.60950E-07	545492.1	3756370.1	292.7	0.00	1.70	0.76	YES	
L0053049	0	0.60950E-07	545495.7	3756370.1	292.7	0.00	1.70	0.76	YES	
L0053050	0	0.60950E-07	545499.4	3756370.0	292.7	0.00	1.70	0.76	YES	
L0053051	0	0.60950E-07	545503.0	3756370.0	292.7	0.00	1.70	0.76	YES	
L0053052	0	0.60950E-07	545506.7	3756370.0	292.6	0.00	1.70	0.76	YES	
L0053053	0	0.60950E-07	545510.4	3756370.0	292.6	0.00	1.70	0.76	YES	
L0053054	0	0.60950E-07	545514.0	3756369.9	292.6	0.00	1.70	0.76	YES	
L0053055	0	0.60950E-07	545517.7	3756369.9	292.6	0.00	1.70	0.76	YES	
L0053056	0	0.60950E-07	545521.3	3756369.9	292.6	0.00	1.70	0.76	YES	
L0053057	0	0.60950E-07	545525.0	3756369.8	292.6	0.00	1.70	0.76	YES	
L0053058	0	0.60950E-07	545528.6	3756369.8	292.6	0.00	1.70	0.76	YES	
L0053059	0	0.60950E-07	545532.3	3756369.8	292.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0053060	0	0.60950E-07	545536.0	3756369.7	292.5	0.00	1.70	0.76	YES	
L0053061	0	0.60950E-07	545539.6	3756369.7	292.5	0.00	1.70	0.76	YES	
L0053062	0	0.60950E-07	545543.3	3756369.7	292.5	0.00	1.70	0.76	YES	
L0053063	0	0.60950E-07	545546.9	3756369.6	292.5	0.00	1.70	0.76	YES	
L0053064	0	0.60950E-07	545550.6	3756369.6	292.4	0.00	1.70	0.76	YES	
L0053065	0	0.60950E-07	545554.2	3756369.6	292.4	0.00	1.70	0.76	YES	
L0053066	0	0.60950E-07	545557.9	3756369.6	292.4	0.00	1.70	0.76	YES	
L0053067	0	0.60950E-07	545561.6	3756369.5	292.3	0.00	1.70	0.76	YES	
L0053068	0	0.60950E-07	545565.2	3756369.5	292.3	0.00	1.70	0.76	YES	
L0053069	0	0.60950E-07	545568.9	3756369.5	292.3	0.00	1.70	0.76	YES	
L0053070	0	0.60950E-07	545572.5	3756369.4	292.2	0.00	1.70	0.76	YES	
L0053071	0	0.60950E-07	545576.2	3756369.4	292.2	0.00	1.70	0.76	YES	
L0053072	0	0.60950E-07	545579.8	3756369.4	292.2	0.00	1.70	0.76	YES	
L0053073	0	0.60950E-07	545583.5	3756369.3	292.1	0.00	1.70	0.76	YES	
L0053074	0	0.60950E-07	545587.2	3756369.3	292.1	0.00	1.70	0.76	YES	
L0053075	0	0.60950E-07	545590.8	3756369.3	292.1	0.00	1.70	0.76	YES	
L0053076	0	0.60950E-07	545594.5	3756369.2	292.0	0.00	1.70	0.76	YES	
L0053077	0	0.60950E-07	545598.1	3756369.2	292.0	0.00	1.70	0.76	YES	
L0053078	0	0.60950E-07	545601.8	3756369.2	291.9	0.00	1.70	0.76	YES	
L0053079	0	0.60950E-07	545605.4	3756369.2	291.9	0.00	1.70	0.76	YES	
L0053080	0	0.60950E-07	545609.1	3756369.1	291.8	0.00	1.70	0.76	YES	
L0053081	0	0.60950E-07	545612.8	3756369.1	291.8	0.00	1.70	0.76	YES	
L0053082	0	0.60950E-07	545616.4	3756369.1	291.7	0.00	1.70	0.76	YES	
L0053083	0	0.60950E-07	545620.1	3756369.0	291.6	0.00	1.70	0.76	YES	
L0053084	0	0.60950E-07	545623.7	3756369.0	291.6	0.00	1.70	0.76	YES	
L0053085	0	0.60950E-07	545627.4	3756369.0	291.5	0.00	1.70	0.76	YES	
L0053086	0	0.60950E-07	545631.0	3756368.9	291.5	0.00	1.70	0.76	YES	
L0053087	0	0.60950E-07	545634.7	3756368.9	291.4	0.00	1.70	0.76	YES	
L0053088	0	0.60950E-07	545638.4	3756369.0	291.4	0.00	1.70	0.76	YES	
L0053089	0	0.60950E-07	545642.0	3756369.0	291.3	0.00	1.70	0.76	YES	
L0053090	0	0.60950E-07	545645.7	3756369.0	291.3	0.00	1.70	0.76	YES	
L0053091	0	0.60950E-07	545649.3	3756369.1	291.2	0.00	1.70	0.76	YES	
L0053092	0	0.60950E-07	545653.0	3756369.1	291.2	0.00	1.70	0.76	YES	
L0053093	0	0.60950E-07	545656.6	3756369.2	291.2	0.00	1.70	0.76	YES	
L0053094	0	0.60950E-07	545660.3	3756369.2	291.1	0.00	1.70	0.76	YES	
L0053095	0	0.60950E-07	545664.0	3756369.2	291.1	0.00	1.70	0.76	YES	
L0053096	0	0.60950E-07	545667.6	3756369.3	291.0	0.00	1.70	0.76	YES	
L0053097	0	0.60950E-07	545671.3	3756369.3	291.0	0.00	1.70	0.76	YES	
L0053098	0	0.60950E-07	545674.9	3756369.4	290.9	0.00	1.70	0.76	YES	
L0053099	0	0.60950E-07	545678.6	3756369.4	290.9	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0053100	0	0.60950E-07	545682.3	3756369.5	290.8	0.00	1.70	0.76	YES	
L0053101	0	0.60950E-07	545685.9	3756369.5	290.8	0.00	1.70	0.76	YES	
L0053102	0	0.60950E-07	545689.6	3756369.5	290.7	0.00	1.70	0.76	YES	
L0053103	0	0.60950E-07	545693.2	3756369.6	290.7	0.00	1.70	0.76	YES	
L0053104	0	0.60950E-07	545696.9	3756369.6	290.6	0.00	1.70	0.76	YES	
L0053105	0	0.60950E-07	545700.5	3756369.7	290.6	0.00	1.70	0.76	YES	
L0053106	0	0.60950E-07	545704.2	3756369.7	290.5	0.00	1.70	0.76	YES	
L0053107	0	0.60950E-07	545707.9	3756369.7	290.4	0.00	1.70	0.76	YES	
L0053108	0	0.60950E-07	545711.5	3756369.8	290.4	0.00	1.70	0.76	YES	
L0053109	0	0.60950E-07	545715.2	3756369.8	290.3	0.00	1.70	0.76	YES	
L0053110	0	0.60950E-07	545718.8	3756369.9	290.2	0.00	1.70	0.76	YES	
L0053111	0	0.60950E-07	545722.5	3756369.9	290.2	0.00	1.70	0.76	YES	
L0053112	0	0.60950E-07	545726.1	3756369.9	290.1	0.00	1.70	0.76	YES	
L0053113	0	0.60950E-07	545729.8	3756370.0	290.1	0.00	1.70	0.76	YES	
L0053114	0	0.60950E-07	545733.5	3756370.0	290.0	0.00	1.70	0.76	YES	
L0053115	0	0.60950E-07	545737.1	3756370.1	290.0	0.00	1.70	0.76	YES	
L0053116	0	0.60950E-07	545740.8	3756370.1	290.0	0.00	1.70	0.76	YES	
L0053117	0	0.60950E-07	545744.4	3756370.2	289.9	0.00	1.70	0.76	YES	
L0053118	0	0.60950E-07	545748.1	3756370.2	289.9	0.00	1.70	0.76	YES	
L0053119	0	0.60950E-07	545751.7	3756370.2	289.9	0.00	1.70	0.76	YES	
L0053120	0	0.60950E-07	545755.4	3756370.3	289.8	0.00	1.70	0.76	YES	
L0053121	0	0.60950E-07	545759.1	3756370.3	289.8	0.00	1.70	0.76	YES	
L0053122	0	0.60950E-07	545762.7	3756370.4	289.7	0.00	1.70	0.76	YES	
L0053123	0	0.60950E-07	545766.4	3756370.4	289.7	0.00	1.70	0.76	YES	
L0053124	0	0.60950E-07	545770.0	3756370.4	289.6	0.00	1.70	0.76	YES	
L0053125	0	0.60950E-07	545773.7	3756370.5	289.6	0.00	1.70	0.76	YES	
L0053126	0	0.60950E-07	545777.3	3756370.5	289.5	0.00	1.70	0.76	YES	
L0053127	0	0.60950E-07	545781.0	3756370.6	289.5	0.00	1.70	0.76	YES	
L0053128	0	0.60950E-07	545784.7	3756370.6	289.4	0.00	1.70	0.76	YES	
L0053129	0	0.60950E-07	545788.3	3756370.7	289.4	0.00	1.70	0.76	YES	
L0053130	0	0.60950E-07	545792.0	3756370.7	289.4	0.00	1.70	0.76	YES	
L0053131	0	0.60950E-07	545795.6	3756370.7	289.3	0.00	1.70	0.76	YES	
L0053132	0	0.60950E-07	545799.3	3756370.8	289.2	0.00	1.70	0.76	YES	
L0053133	0	0.60950E-07	545802.9	3756370.8	289.2	0.00	1.70	0.76	YES	
L0053134	0	0.60950E-07	545806.6	3756370.9	289.2	0.00	1.70	0.76	YES	
L0053135	0	0.60950E-07	545810.3	3756370.9	289.1	0.00	1.70	0.76	YES	
L0053136	0	0.60950E-07	545813.9	3756370.9	289.1	0.00	1.70	0.76	YES	
L0053137	0	0.60950E-07	545817.6	3756371.0	289.0	0.00	1.70	0.76	YES	
L0053138	0	0.60950E-07	545821.2	3756371.0	289.0	0.00	1.70	0.76	YES	
L0053139	0	0.60950E-07	545824.9	3756371.1	289.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0053140	0	0.60950E-07	545828.5	3756371.1	288.9	0.00	1.70	0.76	YES	
L0053141	0	0.60950E-07	545832.2	3756371.2	288.9	0.00	1.70	0.76	YES	
L0053142	0	0.60950E-07	545835.9	3756371.2	288.8	0.00	1.70	0.76	YES	
L0053143	0	0.60950E-07	545839.5	3756371.2	288.8	0.00	1.70	0.76	YES	
L0053144	0	0.60950E-07	545843.2	3756371.3	288.8	0.00	1.70	0.76	YES	
L0053145	0	0.60950E-07	545846.8	3756371.3	288.7	0.00	1.70	0.76	YES	
L0053146	0	0.60950E-07	545850.5	3756371.4	288.7	0.00	1.70	0.76	YES	
L0053147	0	0.60950E-07	545854.1	3756371.4	288.7	0.00	1.70	0.76	YES	
L0053148	0	0.60950E-07	545857.8	3756371.4	288.6	0.00	1.70	0.76	YES	
L0053149	0	0.60950E-07	545861.5	3756371.5	288.6	0.00	1.70	0.76	YES	
L0053150	0	0.60950E-07	545865.1	3756371.5	288.6	0.00	1.70	0.76	YES	
L0053151	0	0.60950E-07	545868.8	3756371.6	288.5	0.00	1.70	0.76	YES	
L0053152	0	0.60950E-07	545872.4	3756371.6	288.5	0.00	1.70	0.76	YES	
L0053153	0	0.60950E-07	545876.1	3756371.6	288.4	0.00	1.70	0.76	YES	
L0053154	0	0.60950E-07	545879.7	3756371.7	288.4	0.00	1.70	0.76	YES	
L0053155	0	0.60950E-07	545883.4	3756371.7	288.4	0.00	1.70	0.76	YES	
L0053156	0	0.60950E-07	545887.1	3756371.8	288.3	0.00	1.70	0.76	YES	
L0053157	0	0.60950E-07	545890.7	3756371.8	288.3	0.00	1.70	0.76	YES	
L0053158	0	0.60950E-07	545894.4	3756371.9	288.3	0.00	1.70	0.76	YES	
L0053159	0	0.60950E-07	545898.0	3756371.9	288.2	0.00	1.70	0.76	YES	
L0053160	0	0.60950E-07	545901.7	3756371.9	288.2	0.00	1.70	0.76	YES	
L0053161	0	0.60950E-07	545905.4	3756372.0	288.2	0.00	1.70	0.76	YES	
L0053162	0	0.60950E-07	545909.0	3756372.0	288.1	0.00	1.70	0.76	YES	
L0053163	0	0.60950E-07	545912.7	3756372.1	288.1	0.00	1.70	0.76	YES	
L0053164	0	0.60950E-07	545916.3	3756372.1	288.1	0.00	1.70	0.76	YES	
L0053165	0	0.60950E-07	545920.0	3756372.1	288.1	0.00	1.70	0.76	YES	
L0053166	0	0.60950E-07	545923.6	3756372.2	288.0	0.00	1.70	0.76	YES	
L0053167	0	0.60950E-07	545927.3	3756372.2	288.0	0.00	1.70	0.76	YES	
L0053168	0	0.60950E-07	545931.0	3756372.3	288.0	0.00	1.70	0.76	YES	
L0053169	0	0.60950E-07	545934.6	3756372.3	288.0	0.00	1.70	0.76	YES	
L0053170	0	0.60950E-07	545938.3	3756372.4	287.9	0.00	1.70	0.76	YES	
L0053171	0	0.60950E-07	545941.9	3756372.4	287.9	0.00	1.70	0.76	YES	
L0053172	0	0.60950E-07	545945.6	3756372.4	287.9	0.00	1.70	0.76	YES	
L0053173	0	0.60950E-07	545949.2	3756372.5	287.8	0.00	1.70	0.76	YES	
L0053174	0	0.60950E-07	545952.9	3756372.5	287.8	0.00	1.70	0.76	YES	
L0053175	0	0.60950E-07	545956.6	3756372.6	287.7	0.00	1.70	0.76	YES	
L0053176	0	0.60950E-07	545960.2	3756372.6	287.7	0.00	1.70	0.76	YES	
L0053177	0	0.60950E-07	545963.9	3756372.6	287.7	0.00	1.70	0.76	YES	

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L0053178         0   0.60950E-07  545967.5 3756372.7   287.6     0.00     1.70     0.76     YES
L0053179         0   0.60950E-07  545971.2 3756372.7   287.6     0.00     1.70     0.76     YES

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 1 yr                          ***        05/23/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 1 yr                                ***        16:16:28
                                                                                                                PAGE  76
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

             NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.   URBAN  EMISSION RATE
  SOURCE      PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ     SOURCE  SCALAR VARY
    ID        CATS.               (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)             BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

L0053180         0   0.60950E-07  545974.8 3756372.8   287.5     0.00     1.70     0.76     YES
L0053181         0   0.60950E-07  545978.5 3756372.8   287.5     0.00     1.70     0.76     YES
L0053182         0   0.60950E-07  545982.2 3756372.8   287.4     0.00     1.70     0.76     YES
L0053183         0   0.60950E-07  545985.8 3756372.9   287.4     0.00     1.70     0.76     YES
L0053184         0   0.60950E-07  545989.5 3756372.9   287.3     0.00     1.70     0.76     YES
L0053185         0   0.60950E-07  545993.1 3756373.0   287.2     0.00     1.70     0.76     YES
L0053186         0   0.60950E-07  545996.8 3756373.0   287.2     0.00     1.70     0.76     YES
L0053187         0   0.60950E-07  546000.4 3756373.1   287.1     0.00     1.70     0.76     YES
L0053188         0   0.60950E-07  546004.1 3756373.1   287.1     0.00     1.70     0.76     YES
L0053189         0   0.60950E-07  546007.8 3756373.1   287.0     0.00     1.70     0.76     YES
L0053190         0   0.60950E-07  546011.4 3756373.2   286.9     0.00     1.70     0.76     YES
L0053191         0   0.60950E-07  546015.1 3756373.2   286.9     0.00     1.70     0.76     YES
L0053192         0   0.60950E-07  546018.7 3756373.3   286.9     0.00     1.70     0.76     YES
L0053193         0   0.60950E-07  546022.4 3756373.3   286.8     0.00     1.70     0.76     YES
L0053194         0   0.60950E-07  546026.0 3756373.3   286.8     0.00     1.70     0.76     YES
L0053195         0   0.60950E-07  546029.7 3756373.4   286.7     0.00     1.70     0.76     YES
L0053196         0   0.60950E-07  546033.4 3756373.4   286.7     0.00     1.70     0.76     YES
L0053197         0   0.60950E-07  546037.0 3756373.5   286.6     0.00     1.70     0.76     YES
L0053198         0   0.60950E-07  546040.7 3756373.5   286.6     0.00     1.70     0.76     YES
L0053199         0   0.60950E-07  546044.3 3756373.6   286.5     0.00     1.70     0.76     YES
L0053200         0   0.60950E-07  546048.0 3756373.6   286.4     0.00     1.70     0.76     YES
L0053201         0   0.60950E-07  546051.6 3756373.6   286.4     0.00     1.70     0.76     YES
L0053202         0   0.60950E-07  546055.3 3756373.7   286.4     0.00     1.70     0.76     YES
L0053203         0   0.60950E-07  546059.0 3756373.7   286.3     0.00     1.70     0.76     YES
L0053204         0   0.60950E-07  546062.6 3756373.8   286.2     0.00     1.70     0.76     YES
L0053205         0   0.60950E-07  546066.3 3756373.8   286.2     0.00     1.70     0.76     YES
L0053206         0   0.60950E-07  546069.9 3756373.8   286.1     0.00     1.70     0.76     YES
L0053207         0   0.60950E-07  546073.6 3756373.9   286.1     0.00     1.70     0.76     YES
L0053208         0   0.60950E-07  546077.2 3756373.9   286.0     0.00     1.70     0.76     YES
L0053209         0   0.60950E-07  546080.9 3756374.0   286.0     0.00     1.70     0.76     YES
L0053210         0   0.64900E-07  543688.4 3756370.2   307.9     0.00     1.70     0.76     YES
L0053211         0   0.64900E-07  543688.3 3756373.9   307.9     0.00     1.70     0.76     YES
L0053212         0   0.64900E-07  543688.3 3756377.5   308.0     0.00     1.70     0.76     YES
L0053213         0   0.64900E-07  543688.3 3756381.2   308.1     0.00     1.70     0.76     YES
L0053214         0   0.64900E-07  543688.2 3756384.8   308.1     0.00     1.70     0.76     YES
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L0053215	0	0.64900E-07	543688.2	3756388.5	308.2	0.00	1.70	0.76	YES	
L0053216	0	0.64900E-07	543688.1	3756392.2	308.3	0.00	1.70	0.76	YES	
L0053217	0	0.64900E-07	543688.1	3756395.8	308.4	0.00	1.70	0.76	YES	
L0053218	0	0.64900E-07	543688.1	3756399.5	308.5	0.00	1.70	0.76	YES	
L0053219	0	0.64900E-07	543688.0	3756403.1	308.6	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0053220	0	0.64900E-07	543688.0	3756406.8	308.7	0.00	1.70	0.76	YES	
L0053221	0	0.64900E-07	543687.9	3756410.5	308.8	0.00	1.70	0.76	YES	
L0053222	0	0.64900E-07	543687.9	3756414.1	308.8	0.00	1.70	0.76	YES	
L0053223	0	0.64900E-07	543687.9	3756417.8	308.9	0.00	1.70	0.76	YES	
L0053224	0	0.64900E-07	543687.8	3756421.4	309.0	0.00	1.70	0.76	YES	
L0053225	0	0.64900E-07	543687.8	3756425.1	309.1	0.00	1.70	0.76	YES	
L0053226	0	0.64900E-07	543687.7	3756428.7	309.2	0.00	1.70	0.76	YES	
L0053227	0	0.64900E-07	543687.7	3756432.4	309.3	0.00	1.70	0.76	YES	
L0053228	0	0.64900E-07	543687.7	3756436.1	309.4	0.00	1.70	0.76	YES	
L0053229	0	0.64900E-07	543687.6	3756439.7	309.5	0.00	1.70	0.76	YES	
L0053230	0	0.64900E-07	543687.6	3756443.4	309.6	0.00	1.70	0.76	YES	
L0053231	0	0.64900E-07	543687.5	3756447.0	309.6	0.00	1.70	0.76	YES	
L0053232	0	0.64900E-07	543687.5	3756450.7	309.7	0.00	1.70	0.76	YES	
L0053233	0	0.64900E-07	543687.5	3756454.3	309.8	0.00	1.70	0.76	YES	
L0053234	0	0.64900E-07	543687.4	3756458.0	309.9	0.00	1.70	0.76	YES	
L0053235	0	0.64900E-07	543687.4	3756461.7	309.9	0.00	1.70	0.76	YES	
L0053236	0	0.64900E-07	543687.3	3756465.3	310.0	0.00	1.70	0.76	YES	
L0053237	0	0.64900E-07	543687.3	3756469.0	310.0	0.00	1.70	0.76	YES	
L0053238	0	0.64900E-07	543687.3	3756472.6	310.1	0.00	1.70	0.76	YES	
L0053239	0	0.64900E-07	543687.2	3756476.3	310.2	0.00	1.70	0.76	YES	
L0053240	0	0.64900E-07	543687.2	3756479.9	310.2	0.00	1.70	0.76	YES	
L0053241	0	0.64900E-07	543687.2	3756483.6	310.3	0.00	1.70	0.76	YES	
L0053242	0	0.64900E-07	543687.1	3756487.3	310.3	0.00	1.70	0.76	YES	
L0053243	0	0.64900E-07	543687.1	3756490.9	310.4	0.00	1.70	0.76	YES	
L0053244	0	0.64900E-07	543687.0	3756494.6	310.4	0.00	1.70	0.76	YES	
L0053245	0	0.64900E-07	543687.0	3756498.2	310.5	0.00	1.70	0.76	YES	
L0053246	0	0.64900E-07	543687.0	3756501.9	310.6	0.00	1.70	0.76	YES	
L0053247	0	0.64900E-07	543686.9	3756505.5	310.6	0.00	1.70	0.76	YES	
L0053248	0	0.64900E-07	543686.9	3756509.2	310.7	0.00	1.70	0.76	YES	
L0053249	0	0.64900E-07	543686.8	3756512.9	310.7	0.00	1.70	0.76	YES	
L0053250	0	0.64900E-07	543686.8	3756516.5	310.8	0.00	1.70	0.76	YES	
L0053251	0	0.64900E-07	543686.8	3756520.2	310.8	0.00	1.70	0.76	YES	

L0053252	0	0.64900E-07	543686.7	3756523.8	310.9	0.00	1.70	0.76	YES	
L0053253	0	0.64900E-07	543686.7	3756527.5	310.9	0.00	1.70	0.76	YES	
L0053254	0	0.64900E-07	543686.6	3756531.1	310.9	0.00	1.70	0.76	YES	
L0053255	0	0.64900E-07	543686.6	3756534.8	311.0	0.00	1.70	0.76	YES	
L0053256	0	0.64900E-07	543686.6	3756538.5	311.1	0.00	1.70	0.76	YES	
L0053257	0	0.64900E-07	543686.5	3756542.1	311.1	0.00	1.70	0.76	YES	
L0053258	0	0.64900E-07	543686.5	3756545.8	311.2	0.00	1.70	0.76	YES	
L0053259	0	0.64900E-07	543686.4	3756549.4	311.2	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0053260	0	0.64900E-07	543686.4	3756553.1	311.2	0.00	1.70	0.76	YES	
L0053261	0	0.64900E-07	543686.4	3756556.7	311.3	0.00	1.70	0.76	YES	
L0053262	0	0.64900E-07	543686.3	3756560.4	311.4	0.00	1.70	0.76	YES	
L0053263	0	0.64900E-07	543686.3	3756564.1	311.4	0.00	1.70	0.76	YES	
L0053264	0	0.64900E-07	543686.2	3756567.7	311.4	0.00	1.70	0.76	YES	
L0053265	0	0.64900E-07	543686.2	3756571.4	311.5	0.00	1.70	0.76	YES	
L0053266	0	0.64900E-07	543686.2	3756575.0	311.6	0.00	1.70	0.76	YES	
L0053267	0	0.64900E-07	543686.1	3756578.7	311.6	0.00	1.70	0.76	YES	
L0053268	0	0.64900E-07	543686.1	3756582.3	311.7	0.00	1.70	0.76	YES	
L0053269	0	0.64900E-07	543686.0	3756586.0	311.7	0.00	1.70	0.76	YES	
L0053270	0	0.64900E-07	543686.0	3756589.7	311.8	0.00	1.70	0.76	YES	
L0053271	0	0.64900E-07	543686.0	3756593.3	311.8	0.00	1.70	0.76	YES	
L0053272	0	0.64900E-07	543685.9	3756597.0	311.9	0.00	1.70	0.76	YES	
L0053273	0	0.64900E-07	543685.9	3756600.6	311.9	0.00	1.70	0.76	YES	
L0053274	0	0.64900E-07	543685.9	3756604.3	312.0	0.00	1.70	0.76	YES	
L0053275	0	0.64900E-07	543685.8	3756607.9	312.0	0.00	1.70	0.76	YES	
L0053276	0	0.64900E-07	543685.8	3756611.6	312.1	0.00	1.70	0.76	YES	
L0053277	0	0.64900E-07	543685.7	3756615.3	312.1	0.00	1.70	0.76	YES	
L0053278	0	0.64900E-07	543685.7	3756618.9	312.2	0.00	1.70	0.76	YES	
L0053279	0	0.64900E-07	543685.7	3756622.6	312.3	0.00	1.70	0.76	YES	
L0053280	0	0.64900E-07	543685.6	3756626.2	312.3	0.00	1.70	0.76	YES	
L0053281	0	0.64900E-07	543685.6	3756629.9	312.4	0.00	1.70	0.76	YES	
L0053282	0	0.64900E-07	543685.5	3756633.6	312.4	0.00	1.70	0.76	YES	
L0053283	0	0.64900E-07	543685.5	3756637.2	312.5	0.00	1.70	0.76	YES	
L0053284	0	0.64900E-07	543685.5	3756640.9	312.6	0.00	1.70	0.76	YES	
L0053285	0	0.64900E-07	543685.4	3756644.5	312.6	0.00	1.70	0.76	YES	
L0053286	0	0.64900E-07	543685.4	3756648.2	312.7	0.00	1.70	0.76	YES	
L0053287	0	0.64900E-07	543685.3	3756651.8	312.8	0.00	1.70	0.76	YES	
L0053288	0	0.64900E-07	543685.3	3756655.5	312.8	0.00	1.70	0.76	YES	

L0053289	0	0.64900E-07	543685.3	3756659.2	312.9	0.00	1.70	0.76	YES	
L0053290	0	0.64900E-07	543685.2	3756662.8	312.9	0.00	1.70	0.76	YES	
L0053291	0	0.64900E-07	543685.2	3756666.5	313.0	0.00	1.70	0.76	YES	
L0053292	0	0.64900E-07	543685.1	3756670.1	313.1	0.00	1.70	0.76	YES	
L0053293	0	0.64900E-07	543685.1	3756673.8	313.2	0.00	1.70	0.76	YES	
L0053294	0	0.64900E-07	543685.1	3756677.4	313.2	0.00	1.70	0.76	YES	
L0053295	0	0.64900E-07	543685.0	3756681.1	313.3	0.00	1.70	0.76	YES	
L0053296	0	0.64900E-07	543685.0	3756684.8	313.4	0.00	1.70	0.76	YES	
L0053297	0	0.64900E-07	543684.9	3756688.4	313.5	0.00	1.70	0.76	YES	
L0053298	0	0.64900E-07	543684.9	3756692.1	313.5	0.00	1.70	0.76	YES	
L0053299	0	0.64900E-07	543684.9	3756695.7	313.6	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0053300	0	0.64900E-07	543684.8	3756699.4	313.7	0.00	1.70	0.76	YES	
L0053301	0	0.64900E-07	543684.8	3756703.0	313.8	0.00	1.70	0.76	YES	
L0053302	0	0.64900E-07	543684.7	3756706.7	313.8	0.00	1.70	0.76	YES	
L0053303	0	0.64900E-07	543684.7	3756710.4	313.9	0.00	1.70	0.76	YES	
L0053304	0	0.64900E-07	543684.7	3756714.0	314.0	0.00	1.70	0.76	YES	
L0053305	0	0.64900E-07	543684.6	3756717.7	314.1	0.00	1.70	0.76	YES	
L0053306	0	0.64900E-07	543684.6	3756721.3	314.2	0.00	1.70	0.76	YES	
L0053307	0	0.64900E-07	543684.5	3756725.0	314.2	0.00	1.70	0.76	YES	
L0053308	0	0.64900E-07	543684.5	3756728.6	314.3	0.00	1.70	0.76	YES	
L0053309	0	0.64900E-07	543684.5	3756732.3	314.4	0.00	1.70	0.76	YES	
L0053310	0	0.64900E-07	543684.4	3756736.0	314.5	0.00	1.70	0.76	YES	
L0053311	0	0.64900E-07	543684.4	3756739.6	314.5	0.00	1.70	0.76	YES	
L0053312	0	0.64900E-07	543684.4	3756743.3	314.6	0.00	1.70	0.76	YES	
L0053313	0	0.64900E-07	543684.3	3756746.9	314.7	0.00	1.70	0.76	YES	
L0053314	0	0.64900E-07	543684.3	3756750.6	314.8	0.00	1.70	0.76	YES	
L0053315	0	0.64900E-07	543684.2	3756754.2	314.9	0.00	1.70	0.76	YES	
L0053316	0	0.64900E-07	543684.2	3756757.9	314.9	0.00	1.70	0.76	YES	
L0053317	0	0.64900E-07	543684.2	3756761.6	315.0	0.00	1.70	0.76	YES	
L0053318	0	0.64900E-07	543684.1	3756765.2	315.1	0.00	1.70	0.76	YES	
L0053319	0	0.64900E-07	543684.1	3756768.9	315.2	0.00	1.70	0.76	YES	
L0053320	0	0.64900E-07	543684.0	3756772.5	315.2	0.00	1.70	0.76	YES	
L0053321	0	0.64900E-07	543684.0	3756776.2	315.3	0.00	1.70	0.76	YES	
L0053322	0	0.64900E-07	543684.0	3756779.8	315.4	0.00	1.70	0.76	YES	
L0053323	0	0.64900E-07	543683.9	3756783.5	315.4	0.00	1.70	0.76	YES	
L0053324	0	0.64900E-07	543683.9	3756787.2	315.5	0.00	1.70	0.76	YES	
L0053325	0	0.64900E-07	543683.8	3756790.8	315.6	0.00	1.70	0.76	YES	

L0053326	0	0.64900E-07	543683.8	3756794.5	315.7	0.00	1.70	0.76	YES	
L0053327	0	0.64900E-07	543683.8	3756798.1	315.7	0.00	1.70	0.76	YES	
L0053328	0	0.64900E-07	543683.7	3756801.8	315.8	0.00	1.70	0.76	YES	
L0053329	0	0.64900E-07	543683.7	3756805.4	315.9	0.00	1.70	0.76	YES	
L0053330	0	0.64900E-07	543683.6	3756809.1	315.9	0.00	1.70	0.76	YES	
L0053331	0	0.64900E-07	543683.6	3756812.8	316.0	0.00	1.70	0.76	YES	
L0053332	0	0.64900E-07	543683.6	3756816.4	316.1	0.00	1.70	0.76	YES	
L0053333	0	0.64900E-07	543683.5	3756820.1	316.1	0.00	1.70	0.76	YES	
L0053334	0	0.64900E-07	543683.5	3756823.7	316.2	0.00	1.70	0.76	YES	
L0053335	0	0.64900E-07	543683.4	3756827.4	316.3	0.00	1.70	0.76	YES	
L0053336	0	0.64900E-07	543683.4	3756831.1	316.3	0.00	1.70	0.76	YES	
L0053337	0	0.64900E-07	543683.4	3756834.7	316.4	0.00	1.70	0.76	YES	
L0053338	0	0.64900E-07	543683.3	3756838.4	316.4	0.00	1.70	0.76	YES	
L0053339	0	0.64900E-07	543683.3	3756842.0	316.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0053340	0	0.64900E-07	543683.2	3756845.7	316.6	0.00	1.70	0.76	YES	
L0053341	0	0.64900E-07	543683.2	3756849.3	316.6	0.00	1.70	0.76	YES	
L0053342	0	0.64900E-07	543683.2	3756853.0	316.7	0.00	1.70	0.76	YES	
L0053343	0	0.64900E-07	543683.1	3756856.7	316.8	0.00	1.70	0.76	YES	
L0053344	0	0.64900E-07	543683.1	3756860.3	316.8	0.00	1.70	0.76	YES	
L0053345	0	0.64900E-07	543683.1	3756864.0	316.9	0.00	1.70	0.76	YES	
L0053346	0	0.64900E-07	543683.0	3756867.6	317.0	0.00	1.70	0.76	YES	
L0053347	0	0.64900E-07	543683.0	3756871.3	317.0	0.00	1.70	0.76	YES	
L0053348	0	0.64900E-07	543682.9	3756874.9	317.1	0.00	1.70	0.76	YES	
L0053349	0	0.64900E-07	543682.9	3756878.6	317.2	0.00	1.70	0.76	YES	
L0053350	0	0.64900E-07	543682.9	3756882.3	317.2	0.00	1.70	0.76	YES	
L0053351	0	0.64900E-07	543682.8	3756885.9	317.3	0.00	1.70	0.76	YES	
L0053352	0	0.64900E-07	543682.8	3756889.6	317.4	0.00	1.70	0.76	YES	
L0053353	0	0.64900E-07	543682.7	3756893.2	317.4	0.00	1.70	0.76	YES	
L0053354	0	0.64900E-07	543682.7	3756896.9	317.5	0.00	1.70	0.76	YES	
L0053355	0	0.64900E-07	543682.7	3756900.5	317.6	0.00	1.70	0.76	YES	
L0053356	0	0.64900E-07	543682.6	3756904.2	317.7	0.00	1.70	0.76	YES	
L0053357	0	0.64900E-07	543682.6	3756907.9	317.7	0.00	1.70	0.76	YES	
L0053358	0	0.64900E-07	543682.5	3756911.5	317.8	0.00	1.70	0.76	YES	
L0053359	0	0.64900E-07	543682.5	3756915.2	317.9	0.00	1.70	0.76	YES	
L0053360	0	0.64900E-07	543682.5	3756918.8	317.9	0.00	1.70	0.76	YES	
L0053361	0	0.64900E-07	543682.4	3756922.5	318.0	0.00	1.70	0.76	YES	
L0053362	0	0.64900E-07	543682.4	3756926.1	318.1	0.00	1.70	0.76	YES	

L0053363	0	0.64900E-07	543682.3	3756929.8	318.2	0.00	1.70	0.76	YES	
L0053364	0	0.64900E-07	543682.3	3756933.5	318.2	0.00	1.70	0.76	YES	
L0053365	0	0.64900E-07	543682.3	3756937.1	318.3	0.00	1.70	0.76	YES	
L0053366	0	0.64900E-07	543682.2	3756940.8	318.4	0.00	1.70	0.76	YES	
L0053367	0	0.64900E-07	543682.2	3756944.4	318.5	0.00	1.70	0.76	YES	
L0053368	0	0.64900E-07	543682.1	3756948.1	318.6	0.00	1.70	0.76	YES	
L0053369	0	0.64900E-07	543682.1	3756951.7	318.6	0.00	1.70	0.76	YES	
L0053370	0	0.64900E-07	543682.1	3756955.4	318.7	0.00	1.70	0.76	YES	
L0053371	0	0.64900E-07	543682.0	3756959.1	318.8	0.00	1.70	0.76	YES	
L0053372	0	0.64900E-07	543682.0	3756962.7	318.9	0.00	1.70	0.76	YES	
L0053373	0	0.64900E-07	543681.9	3756966.4	318.9	0.00	1.70	0.76	YES	
L0053374	0	0.64900E-07	543681.9	3756970.0	319.0	0.00	1.70	0.76	YES	
L0053375	0	0.64900E-07	543681.9	3756973.7	319.1	0.00	1.70	0.76	YES	
L0053376	0	0.64900E-07	543681.8	3756977.3	319.2	0.00	1.70	0.76	YES	
L0053377	0	0.64900E-07	543681.8	3756981.0	319.2	0.00	1.70	0.76	YES	
L0053378	0	0.64900E-07	543681.7	3756984.7	319.3	0.00	1.70	0.76	YES	
L0053379	0	0.64900E-07	543681.7	3756988.3	319.4	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0053380	0	0.64900E-07	543681.7	3756992.0	319.5	0.00	1.70	0.76	YES	
L0053381	0	0.64900E-07	543681.6	3756995.6	319.6	0.00	1.70	0.76	YES	
L0053382	0	0.64900E-07	543681.6	3756999.3	319.6	0.00	1.70	0.76	YES	
L0053383	0	0.64900E-07	543681.6	3757002.9	319.7	0.00	1.70	0.76	YES	
L0053384	0	0.64900E-07	543681.5	3757006.6	319.8	0.00	1.70	0.76	YES	
L0053385	0	0.64900E-07	543681.5	3757010.3	319.9	0.00	1.70	0.76	YES	
L0053386	0	0.64900E-07	543681.4	3757013.9	319.9	0.00	1.70	0.76	YES	
L0053387	0	0.64900E-07	543681.4	3757017.6	320.0	0.00	1.70	0.76	YES	
L0053388	0	0.64900E-07	543681.4	3757021.2	320.1	0.00	1.70	0.76	YES	
L0053389	0	0.64900E-07	543681.3	3757024.9	320.2	0.00	1.70	0.76	YES	
L0053390	0	0.64900E-07	543681.3	3757028.5	320.2	0.00	1.70	0.76	YES	
L0053391	0	0.64900E-07	543681.2	3757032.2	320.3	0.00	1.70	0.76	YES	
L0053392	0	0.64900E-07	543681.2	3757035.9	320.4	0.00	1.70	0.76	YES	
L0053393	0	0.64900E-07	543681.2	3757039.5	320.5	0.00	1.70	0.76	YES	
L0053394	0	0.64900E-07	543681.1	3757043.2	320.6	0.00	1.70	0.76	YES	
L0053395	0	0.64900E-07	543681.1	3757046.8	320.7	0.00	1.70	0.76	YES	
L0053396	0	0.64900E-07	543681.0	3757050.5	320.8	0.00	1.70	0.76	YES	
L0053397	0	0.64900E-07	543681.0	3757054.2	320.9	0.00	1.70	0.76	YES	
L0053398	0	0.64900E-07	543681.0	3757057.8	321.0	0.00	1.70	0.76	YES	
L0053399	0	0.64900E-07	543680.9	3757061.5	321.1	0.00	1.70	0.76	YES	

L0053400	0	0.64900E-07	543680.9	3757065.1	321.2	0.00	1.70	0.76	YES	
L0053401	0	0.64900E-07	543680.8	3757068.8	321.3	0.00	1.70	0.76	YES	
L0053402	0	0.64900E-07	543680.8	3757072.4	321.4	0.00	1.70	0.76	YES	
L0053403	0	0.64900E-07	543680.8	3757076.1	321.5	0.00	1.70	0.76	YES	
L0053404	0	0.64900E-07	543680.7	3757079.8	321.6	0.00	1.70	0.76	YES	
L0053405	0	0.64900E-07	543680.7	3757083.4	321.7	0.00	1.70	0.76	YES	
L0053406	0	0.64900E-07	543680.6	3757087.1	321.8	0.00	1.70	0.76	YES	
L0053407	0	0.64900E-07	543680.6	3757090.7	321.9	0.00	1.70	0.76	YES	
L0053408	0	0.64900E-07	543680.6	3757094.4	322.0	0.00	1.70	0.76	YES	
L0053409	0	0.64900E-07	543680.5	3757098.0	322.1	0.00	1.70	0.76	YES	
L0053410	0	0.64900E-07	543680.5	3757101.7	322.2	0.00	1.70	0.76	YES	
L0053411	0	0.64900E-07	543680.4	3757105.4	322.3	0.00	1.70	0.76	YES	
L0053412	0	0.64900E-07	543680.4	3757109.0	322.4	0.00	1.70	0.76	YES	
L0053413	0	0.64900E-07	543680.4	3757112.7	322.4	0.00	1.70	0.76	YES	
L0053414	0	0.64900E-07	543680.3	3757116.3	322.6	0.00	1.70	0.76	YES	
L0053415	0	0.64900E-07	543680.3	3757120.0	322.7	0.00	1.70	0.76	YES	
L0053416	0	0.64900E-07	543680.2	3757123.6	322.7	0.00	1.70	0.76	YES	
L0053417	0	0.64900E-07	543680.2	3757127.3	322.8	0.00	1.70	0.76	YES	
L0053418	0	0.64900E-07	543680.2	3757131.0	322.9	0.00	1.70	0.76	YES	
L0053419	0	0.64900E-07	543680.1	3757134.6	323.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0053420	0	0.64900E-07	543680.1	3757138.3	323.1	0.00	1.70	0.76	YES	
L0053421	0	0.64900E-07	543680.1	3757141.9	323.2	0.00	1.70	0.76	YES	
L0053422	0	0.64900E-07	543680.0	3757145.6	323.2	0.00	1.70	0.76	YES	
L0053423	0	0.64900E-07	543680.0	3757149.2	323.3	0.00	1.70	0.76	YES	
L0053424	0	0.64900E-07	543679.9	3757152.9	323.4	0.00	1.70	0.76	YES	
L0053425	0	0.64900E-07	543679.9	3757156.6	323.5	0.00	1.70	0.76	YES	
L0053426	0	0.64900E-07	543679.9	3757160.2	323.5	0.00	1.70	0.76	YES	
L0053427	0	0.64900E-07	543679.8	3757163.9	323.6	0.00	1.70	0.76	YES	
L0053428	0	0.64900E-07	543679.8	3757167.5	323.7	0.00	1.70	0.76	YES	
L0053429	0	0.64900E-07	543679.7	3757171.2	323.8	0.00	1.70	0.76	YES	
L0053430	0	0.64900E-07	543679.7	3757174.8	323.8	0.00	1.70	0.76	YES	
L0053431	0	0.64900E-07	543679.7	3757178.5	323.9	0.00	1.70	0.76	YES	
L0053432	0	0.64900E-07	543679.6	3757182.2	323.9	0.00	1.70	0.76	YES	
L0053433	0	0.64900E-07	543679.6	3757185.8	324.0	0.00	1.70	0.76	YES	
L0053434	0	0.64900E-07	543679.5	3757189.5	324.1	0.00	1.70	0.76	YES	
L0053435	0	0.64900E-07	543679.5	3757193.1	324.2	0.00	1.70	0.76	YES	
L0053436	0	0.64900E-07	543679.5	3757196.8	324.2	0.00	1.70	0.76	YES	

L0053437	0	0.64900E-07	543679.4	3757200.4	324.3	0.00	1.70	0.76	YES
L0053438	0	0.64900E-07	543679.4	3757204.1	324.3	0.00	1.70	0.76	YES
L0053439	0	0.64900E-07	543679.3	3757207.8	324.4	0.00	1.70	0.76	YES
L0053440	0	0.64900E-07	543679.3	3757211.4	324.4	0.00	1.70	0.76	YES
L0053441	0	0.64900E-07	543679.3	3757215.1	324.5	0.00	1.70	0.76	YES
L0053442	0	0.64900E-07	543679.2	3757218.7	324.6	0.00	1.70	0.76	YES
L0053443	0	0.64900E-07	543679.2	3757222.4	324.6	0.00	1.70	0.76	YES
L0053444	0	0.64900E-07	543679.1	3757226.0	324.7	0.00	1.70	0.76	YES
L0053445	0	0.64900E-07	543679.1	3757229.7	324.8	0.00	1.70	0.76	YES
L0053446	0	0.64900E-07	543679.1	3757233.4	324.8	0.00	1.70	0.76	YES
L0053447	0	0.64900E-07	543679.0	3757237.0	324.9	0.00	1.70	0.76	YES
L0053448	0	0.64900E-07	543679.0	3757240.7	325.0	0.00	1.70	0.76	YES
L0053449	0	0.64900E-07	543678.9	3757244.3	325.0	0.00	1.70	0.76	YES
L0053450	0	0.64900E-07	543678.9	3757248.0	325.1	0.00	1.70	0.76	YES
L0053451	0	0.64900E-07	543678.9	3757251.6	325.2	0.00	1.70	0.76	YES
L0053452	0	0.64900E-07	543678.8	3757255.3	325.2	0.00	1.70	0.76	YES
L0053453	0	0.64900E-07	543678.8	3757259.0	325.3	0.00	1.70	0.76	YES
L0053454	0	0.64900E-07	543678.8	3757262.6	325.4	0.00	1.70	0.76	YES
L0053455	0	0.12190E-06	543676.1	3753932.2	262.4	0.00	1.70	0.76	YES
L0053456	0	0.12190E-06	543679.7	3753932.2	262.4	0.00	1.70	0.76	YES
L0053457	0	0.12190E-06	543683.4	3753932.2	262.4	0.00	1.70	0.76	YES
L0053458	0	0.12190E-06	543687.0	3753932.2	262.4	0.00	1.70	0.76	YES
L0053459	0	0.12190E-06	543690.7	3753932.3	262.4	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0053460	0	0.12190E-06	543694.3	3753932.3	262.4	0.00	1.70	0.76	YES	
L0053461	0	0.12190E-06	543698.0	3753932.3	262.4	0.00	1.70	0.76	YES	
L0053462	0	0.12190E-06	543701.7	3753932.3	262.4	0.00	1.70	0.76	YES	
L0053463	0	0.12190E-06	543705.3	3753932.3	262.4	0.00	1.70	0.76	YES	
L0053464	0	0.12190E-06	543709.0	3753932.3	262.4	0.00	1.70	0.76	YES	
L0053465	0	0.12190E-06	543712.6	3753932.3	262.3	0.00	1.70	0.76	YES	
L0053466	0	0.12190E-06	543716.3	3753932.3	262.3	0.00	1.70	0.76	YES	
L0053467	0	0.12190E-06	543719.9	3753932.3	262.3	0.00	1.70	0.76	YES	
L0053468	0	0.12190E-06	543723.6	3753932.4	262.3	0.00	1.70	0.76	YES	
L0053469	0	0.12190E-06	543727.3	3753932.4	262.3	0.00	1.70	0.76	YES	
L0053470	0	0.12190E-06	543730.9	3753932.4	262.3	0.00	1.70	0.76	YES	
L0053471	0	0.12190E-06	543734.6	3753932.4	262.3	0.00	1.70	0.76	YES	
L0053472	0	0.12190E-06	543738.2	3753932.4	262.3	0.00	1.70	0.76	YES	
L0053473	0	0.12190E-06	543741.9	3753932.4	262.3	0.00	1.70	0.76	YES	

L0053474	0	0.12190E-06	543745.5	3753932.4	262.2	0.00	1.70	0.76	YES	
L0053475	0	0.12190E-06	543749.2	3753932.4	262.2	0.00	1.70	0.76	YES	
L0053476	0	0.12190E-06	543752.9	3753932.4	262.2	0.00	1.70	0.76	YES	
L0053477	0	0.12190E-06	543756.5	3753932.5	262.2	0.00	1.70	0.76	YES	
L0053478	0	0.12190E-06	543760.2	3753932.5	262.2	0.00	1.70	0.76	YES	
L0053479	0	0.12190E-06	543763.8	3753932.5	262.2	0.00	1.70	0.76	YES	
L0053480	0	0.12190E-06	543767.5	3753932.5	262.2	0.00	1.70	0.76	YES	
L0053481	0	0.12190E-06	543771.2	3753932.5	262.2	0.00	1.70	0.76	YES	
L0053482	0	0.12190E-06	543774.8	3753932.5	262.2	0.00	1.70	0.76	YES	
L0053483	0	0.12190E-06	543778.5	3753932.5	262.2	0.00	1.70	0.76	YES	
L0053484	0	0.12190E-06	543782.1	3753932.5	262.2	0.00	1.70	0.76	YES	
L0053485	0	0.12190E-06	543785.8	3753932.5	262.1	0.00	1.70	0.76	YES	
L0053486	0	0.12190E-06	543789.4	3753932.5	262.1	0.00	1.70	0.76	YES	
L0053487	0	0.12190E-06	543793.1	3753932.6	262.1	0.00	1.70	0.76	YES	
L0053488	0	0.12190E-06	543796.8	3753932.6	262.1	0.00	1.70	0.76	YES	
L0053489	0	0.12190E-06	543800.4	3753932.6	262.1	0.00	1.70	0.76	YES	
L0053490	0	0.12190E-06	543804.1	3753932.6	262.1	0.00	1.70	0.76	YES	
L0053491	0	0.12190E-06	543807.7	3753932.6	262.0	0.00	1.70	0.76	YES	
L0053492	0	0.12190E-06	543811.4	3753932.6	262.0	0.00	1.70	0.76	YES	
L0053493	0	0.12190E-06	543815.0	3753932.6	262.0	0.00	1.70	0.76	YES	
L0053494	0	0.12190E-06	543818.7	3753932.6	262.0	0.00	1.70	0.76	YES	
L0053495	0	0.12190E-06	543822.4	3753932.6	262.0	0.00	1.70	0.76	YES	
L0053496	0	0.12190E-06	543826.0	3753932.7	262.0	0.00	1.70	0.76	YES	
L0053497	0	0.12190E-06	543829.7	3753932.7	262.0	0.00	1.70	0.76	YES	
L0053498	0	0.12190E-06	543833.3	3753932.7	261.9	0.00	1.70	0.76	YES	
L0053499	0	0.12190E-06	543837.0	3753932.7	261.9	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0053500	0	0.12190E-06	543840.6	3753932.7	261.9	0.00	1.70	0.76	YES	
L0053501	0	0.12190E-06	543844.3	3753932.7	261.9	0.00	1.70	0.76	YES	
L0053502	0	0.12190E-06	543848.0	3753932.7	261.9	0.00	1.70	0.76	YES	
L0053503	0	0.12190E-06	543851.6	3753932.7	261.9	0.00	1.70	0.76	YES	
L0053504	0	0.12190E-06	543855.3	3753932.7	261.9	0.00	1.70	0.76	YES	
L0053505	0	0.12190E-06	543858.9	3753932.8	261.8	0.00	1.70	0.76	YES	
L0053506	0	0.12190E-06	543862.6	3753932.8	261.8	0.00	1.70	0.76	YES	
L0053507	0	0.12190E-06	543866.2	3753932.8	261.8	0.00	1.70	0.76	YES	
L0053508	0	0.12190E-06	543869.9	3753932.8	261.8	0.00	1.70	0.76	YES	
L0053509	0	0.12190E-06	543873.6	3753932.8	261.7	0.00	1.70	0.76	YES	
L0053510	0	0.12190E-06	543877.2	3753932.8	261.7	0.00	1.70	0.76	YES	

L0053511	0	0.12190E-06	543880.9	3753932.8	261.7	0.00	1.70	0.76	YES	
L0053512	0	0.12190E-06	543884.5	3753932.8	261.7	0.00	1.70	0.76	YES	
L0053513	0	0.12190E-06	543888.2	3753932.8	261.6	0.00	1.70	0.76	YES	
L0053514	0	0.12190E-06	543891.9	3753932.9	261.6	0.00	1.70	0.76	YES	
L0053515	0	0.12190E-06	543895.5	3753932.9	261.6	0.00	1.70	0.76	YES	
L0053516	0	0.12190E-06	543899.2	3753932.9	261.6	0.00	1.70	0.76	YES	
L0053517	0	0.12190E-06	543902.8	3753932.9	261.5	0.00	1.70	0.76	YES	
L0053518	0	0.12190E-06	543906.5	3753932.9	261.5	0.00	1.70	0.76	YES	
L0053519	0	0.12190E-06	543910.1	3753932.9	261.5	0.00	1.70	0.76	YES	
L0053520	0	0.12190E-06	543913.8	3753932.9	261.4	0.00	1.70	0.76	YES	
L0053521	0	0.12190E-06	543917.5	3753932.9	261.4	0.00	1.70	0.76	YES	
L0053522	0	0.12190E-06	543921.1	3753932.9	261.4	0.00	1.70	0.76	YES	
L0053523	0	0.12190E-06	543924.8	3753932.9	261.4	0.00	1.70	0.76	YES	
L0053524	0	0.12190E-06	543928.4	3753933.0	261.4	0.00	1.70	0.76	YES	
L0053525	0	0.12190E-06	543932.1	3753933.0	261.4	0.00	1.70	0.76	YES	
L0053526	0	0.12190E-06	543935.7	3753933.0	261.3	0.00	1.70	0.76	YES	
L0053527	0	0.12190E-06	543939.4	3753933.0	261.3	0.00	1.70	0.76	YES	
L0053528	0	0.12190E-06	543943.1	3753933.0	261.3	0.00	1.70	0.76	YES	
L0053529	0	0.12190E-06	543946.7	3753933.0	261.3	0.00	1.70	0.76	YES	
L0053530	0	0.12190E-06	543950.4	3753933.0	261.2	0.00	1.70	0.76	YES	
L0053531	0	0.12190E-06	543954.0	3753933.0	261.2	0.00	1.70	0.76	YES	
L0053532	0	0.12190E-06	543957.7	3753933.0	261.2	0.00	1.70	0.76	YES	
L0053533	0	0.12190E-06	543961.3	3753933.1	261.1	0.00	1.70	0.76	YES	
L0053534	0	0.12190E-06	543965.0	3753933.1	261.1	0.00	1.70	0.76	YES	
L0053535	0	0.12190E-06	543968.7	3753933.1	261.1	0.00	1.70	0.76	YES	
L0053536	0	0.12190E-06	543972.3	3753933.1	261.0	0.00	1.70	0.76	YES	
L0053537	0	0.12190E-06	543976.0	3753933.1	261.0	0.00	1.70	0.76	YES	
L0053538	0	0.12190E-06	543979.6	3753933.1	261.0	0.00	1.70	0.76	YES	
L0053539	0	0.12190E-06	543983.3	3753933.1	261.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0053540	0	0.12190E-06	543986.9	3753933.1	261.0	0.00	1.70	0.76	YES	
L0053541	0	0.12190E-06	543990.6	3753933.1	261.0	0.00	1.70	0.76	YES	
L0053542	0	0.12190E-06	543994.3	3753933.2	261.0	0.00	1.70	0.76	YES	
L0053543	0	0.12190E-06	543997.9	3753933.2	261.0	0.00	1.70	0.76	YES	
L0053544	0	0.12190E-06	544001.6	3753933.2	261.0	0.00	1.70	0.76	YES	
L0053545	0	0.12190E-06	544005.2	3753933.2	260.9	0.00	1.70	0.76	YES	
L0053546	0	0.12190E-06	544008.9	3753933.2	260.9	0.00	1.70	0.76	YES	
L0053547	0	0.12190E-06	544012.6	3753933.2	260.9	0.00	1.70	0.76	YES	

L0053548	0	0.12190E-06	544016.2	3753933.2	260.8	0.00	1.70	0.76	YES
L0053549	0	0.12190E-06	544019.9	3753933.2	260.8	0.00	1.70	0.76	YES
L0053550	0	0.12190E-06	544023.5	3753933.2	260.8	0.00	1.70	0.76	YES
L0053551	0	0.12190E-06	544027.2	3753933.3	260.8	0.00	1.70	0.76	YES
L0053552	0	0.12190E-06	544030.8	3753933.3	260.8	0.00	1.70	0.76	YES
L0053553	0	0.12190E-06	544034.5	3753933.3	260.7	0.00	1.70	0.76	YES
L0053554	0	0.12190E-06	544038.2	3753933.3	260.7	0.00	1.70	0.76	YES
L0053555	0	0.12190E-06	544041.8	3753933.3	260.7	0.00	1.70	0.76	YES
L0053556	0	0.12190E-06	544045.5	3753933.3	260.7	0.00	1.70	0.76	YES
L0053557	0	0.12190E-06	544049.1	3753933.3	260.7	0.00	1.70	0.76	YES
L0053558	0	0.12190E-06	544052.8	3753933.3	260.7	0.00	1.70	0.76	YES
L0053559	0	0.12190E-06	544056.4	3753933.3	260.7	0.00	1.70	0.76	YES
L0053560	0	0.12190E-06	544060.1	3753933.3	260.7	0.00	1.70	0.76	YES
L0053561	0	0.12190E-06	544063.8	3753933.4	260.7	0.00	1.70	0.76	YES
L0053562	0	0.12190E-06	544067.4	3753933.4	260.7	0.00	1.70	0.76	YES
L0053563	0	0.12190E-06	544071.1	3753933.4	260.7	0.00	1.70	0.76	YES
L0053564	0	0.12190E-06	544074.7	3753933.4	260.7	0.00	1.70	0.76	YES
L0053565	0	0.12190E-06	544078.4	3753933.4	260.7	0.00	1.70	0.76	YES
L0053566	0	0.12190E-06	544082.0	3753933.4	260.7	0.00	1.70	0.76	YES
L0053567	0	0.12190E-06	544085.7	3753933.4	260.7	0.00	1.70	0.76	YES
L0053568	0	0.12190E-06	544089.4	3753933.4	260.7	0.00	1.70	0.76	YES
L0053569	0	0.12190E-06	544093.0	3753933.4	260.7	0.00	1.70	0.76	YES
L0053570	0	0.12190E-06	544096.7	3753933.5	260.7	0.00	1.70	0.76	YES
L0053571	0	0.12190E-06	544100.3	3753933.5	260.6	0.00	1.70	0.76	YES
L0053572	0	0.12190E-06	544104.0	3753933.5	260.6	0.00	1.70	0.76	YES
L0053573	0	0.12190E-06	544107.6	3753933.5	260.6	0.00	1.70	0.76	YES
L0053574	0	0.12190E-06	544111.3	3753933.5	260.5	0.00	1.70	0.76	YES
L0053575	0	0.12190E-06	544115.0	3753933.5	260.5	0.00	1.70	0.76	YES
L0053576	0	0.12190E-06	544118.6	3753933.5	260.5	0.00	1.70	0.76	YES
L0053577	0	0.12190E-06	544122.3	3753933.5	260.4	0.00	1.70	0.76	YES
L0053578	0	0.12190E-06	544125.9	3753933.5	260.5	0.00	1.70	0.76	YES
L0053579	0	0.12190E-06	544129.6	3753933.6	260.5	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0053580	0	0.12190E-06	544133.3	3753933.6	260.5	0.00	1.70	0.76	YES	
L0053581	0	0.12190E-06	544136.9	3753933.6	260.5	0.00	1.70	0.76	YES	
L0053582	0	0.12190E-06	544140.6	3753933.6	260.5	0.00	1.70	0.76	YES	
L0053583	0	0.12190E-06	544144.2	3753933.6	260.5	0.00	1.70	0.76	YES	
L0053584	0	0.12190E-06	544147.9	3753933.6	260.5	0.00	1.70	0.76	YES	

L0053585	0	0.12190E-06	544151.5	3753933.6	260.5	0.00	1.70	0.76	YES
L0053586	0	0.12190E-06	544155.2	3753933.6	260.5	0.00	1.70	0.76	YES
L0053587	0	0.12190E-06	544158.9	3753933.6	260.4	0.00	1.70	0.76	YES
L0053588	0	0.12190E-06	544162.5	3753933.7	260.4	0.00	1.70	0.76	YES
L0053589	0	0.12190E-06	544166.2	3753933.7	260.4	0.00	1.70	0.76	YES
L0053590	0	0.12190E-06	544169.8	3753933.7	260.4	0.00	1.70	0.76	YES
L0053591	0	0.12190E-06	544173.5	3753933.7	260.4	0.00	1.70	0.76	YES
L0053592	0	0.12190E-06	544177.1	3753933.7	260.4	0.00	1.70	0.76	YES
L0053593	0	0.12190E-06	544180.8	3753933.7	260.4	0.00	1.70	0.76	YES
L0053594	0	0.12190E-06	544184.5	3753933.7	260.4	0.00	1.70	0.76	YES
L0053595	0	0.12190E-06	544188.1	3753933.7	260.3	0.00	1.70	0.76	YES
L0053596	0	0.12190E-06	544191.8	3753933.7	260.3	0.00	1.70	0.76	YES
L0053597	0	0.12190E-06	544195.4	3753933.8	260.3	0.00	1.70	0.76	YES
L0053598	0	0.12190E-06	544199.1	3753933.8	260.3	0.00	1.70	0.76	YES
L0053599	0	0.12190E-06	544202.7	3753933.8	260.3	0.00	1.70	0.76	YES
L0053600	0	0.12190E-06	544206.4	3753933.8	260.3	0.00	1.70	0.76	YES
L0053601	0	0.12190E-06	544210.1	3753933.8	260.3	0.00	1.70	0.76	YES
L0053602	0	0.12190E-06	544213.7	3753933.8	260.3	0.00	1.70	0.76	YES
L0053603	0	0.12190E-06	544217.4	3753933.8	260.3	0.00	1.70	0.76	YES
L0053604	0	0.12190E-06	544221.0	3753933.8	260.3	0.00	1.70	0.76	YES
L0053605	0	0.12190E-06	544224.7	3753933.8	260.3	0.00	1.70	0.76	YES
L0053606	0	0.12190E-06	544228.3	3753933.8	260.3	0.00	1.70	0.76	YES
L0053607	0	0.12190E-06	544232.0	3753933.9	260.3	0.00	1.70	0.76	YES
L0053608	0	0.12190E-06	544235.7	3753933.9	260.3	0.00	1.70	0.76	YES
L0053609	0	0.12190E-06	544239.3	3753933.9	260.3	0.00	1.70	0.76	YES
L0053610	0	0.12190E-06	544243.0	3753933.9	260.2	0.00	1.70	0.76	YES
L0053611	0	0.12190E-06	544246.6	3753933.9	260.2	0.00	1.70	0.76	YES
L0053612	0	0.12190E-06	544250.3	3753933.9	260.2	0.00	1.70	0.76	YES
L0053613	0	0.12190E-06	544254.0	3753933.9	260.2	0.00	1.70	0.76	YES
L0053614	0	0.12190E-06	544257.6	3753933.9	260.2	0.00	1.70	0.76	YES
L0053615	0	0.12190E-06	544261.3	3753933.9	260.2	0.00	1.70	0.76	YES
L0053616	0	0.12190E-06	544264.9	3753934.0	260.2	0.00	1.70	0.76	YES
L0053617	0	0.12190E-06	544268.6	3753934.0	260.2	0.00	1.70	0.76	YES
L0053618	0	0.12190E-06	544272.2	3753934.0	260.2	0.00	1.70	0.76	YES
L0053619	0	0.12190E-06	544275.9	3753934.0	260.1	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0053620	0	0.12190E-06	544279.6	3753934.0	260.1	0.00	1.70	0.76	YES	
L0053621	0	0.12190E-06	544283.2	3753934.0	260.1	0.00	1.70	0.76	YES	

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L0053622         0   0.12190E-06  544286.9 3753934.0   260.1     0.00     1.70     0.76     YES
L0053623         0   0.12190E-06  544290.5 3753934.0   260.1     0.00     1.70     0.76     YES
L0053624         0   0.12190E-06  544294.2 3753934.0   260.1     0.00     1.70     0.76     YES
L0053625         0   0.12190E-06  544297.8 3753934.1   260.0     0.00     1.70     0.76     YES
L0053626         0   0.12190E-06  544301.5 3753934.1   260.0     0.00     1.70     0.76     YES
L0053627         0   0.12190E-06  544305.2 3753934.1   260.0     0.00     1.70     0.76     YES
L0053628         0   0.12190E-06  544308.8 3753934.1   260.0     0.00     1.70     0.76     YES
L0053629         0   0.12190E-06  544312.5 3753934.1   260.0     0.00     1.70     0.76     YES
L0053630         0   0.12190E-06  544316.1 3753934.1   259.9     0.00     1.70     0.76     YES
L0053631         0   0.12190E-06  544319.8 3753934.1   259.9     0.00     1.70     0.76     YES
L0053632         0   0.12190E-06  544323.4 3753934.1   259.9     0.00     1.70     0.76     YES
L0053633         0   0.12190E-06  544327.1 3753934.1   259.9     0.00     1.70     0.76     YES
L0053634         0   0.12190E-06  544330.8 3753934.2   259.9     0.00     1.70     0.76     YES
L0053635         0   0.12190E-06  544334.4 3753934.2   259.9     0.00     1.70     0.76     YES
L0053636         0   0.12190E-06  544338.1 3753934.2   259.8     0.00     1.70     0.76     YES
L0053637         0   0.12190E-06  544341.7 3753934.2   259.8     0.00     1.70     0.76     YES
L0053638         0   0.12190E-06  544345.4 3753934.2   259.8     0.00     1.70     0.76     YES
L0053639         0   0.12190E-06  544349.0 3753934.2   259.8     0.00     1.70     0.76     YES
L0053640         0   0.12190E-06  544352.7 3753934.2   259.8     0.00     1.70     0.76     YES
L0053641         0   0.12190E-06  544356.4 3753934.2   259.8     0.00     1.70     0.76     YES
L0053642         0   0.12190E-06  544360.0 3753934.2   259.8     0.00     1.70     0.76     YES
L0053643         0   0.12190E-06  544363.7 3753934.2   259.8     0.00     1.70     0.76     YES
L0053644         0   0.12190E-06  544367.3 3753934.3   259.8     0.00     1.70     0.76     YES
L0053645         0   0.12190E-06  544371.0 3753934.3   259.7     0.00     1.70     0.76     YES
L0053646         0   0.12190E-06  544374.7 3753934.3   259.7     0.00     1.70     0.76     YES
L0053647         0   0.12190E-06  544378.3 3753934.3   259.7     0.00     1.70     0.76     YES
L0053648         0   0.12190E-06  544382.0 3753934.3   259.7     0.00     1.70     0.76     YES
L0053649         0   0.12190E-06  544385.6 3753934.3   259.7     0.00     1.70     0.76     YES
L0053650         0   0.12190E-06  544389.3 3753934.3   259.7     0.00     1.70     0.76     YES
L0053651         0   0.12190E-06  544392.9 3753934.3   259.6     0.00     1.70     0.76     YES
L0053652         0   0.12190E-06  544396.6 3753934.3   259.6     0.00     1.70     0.76     YES
L0053653         0   0.12190E-06  544400.3 3753934.4   259.6     0.00     1.70     0.76     YES
L0053654         0   0.12190E-06  544403.9 3753934.4   259.6     0.00     1.70     0.76     YES
L0053655         0   0.12190E-06  544407.6 3753934.4   259.6     0.00     1.70     0.76     YES
L0053656         0   0.12190E-06  544411.2 3753934.4   259.5     0.00     1.70     0.76     YES
L0053657         0   0.12190E-06  544414.9 3753934.4   259.5     0.00     1.70     0.76     YES
L0053658         0   0.12190E-06  544418.5 3753934.4   259.5     0.00     1.70     0.76     YES
L0053659         0   0.12190E-06  544422.2 3753934.4   259.5     0.00     1.70     0.76     YES
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY

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L0053660         0   0.12190E-06  544425.9 3753934.4   259.5     0.00     1.70     0.76     YES
L0053661         0   0.12190E-06  544429.5 3753934.4   259.4     0.00     1.70     0.76     YES
L0053662         0   0.12190E-06  544433.2 3753934.5   259.4     0.00     1.70     0.76     YES
L0053663         0   0.12190E-06  544436.8 3753934.5   259.4     0.00     1.70     0.76     YES
L0053664         0   0.12190E-06  544440.5 3753934.5   259.4     0.00     1.70     0.76     YES
L0053665         0   0.12190E-06  544444.1 3753934.5   259.4     0.00     1.70     0.76     YES
L0053666         0   0.12190E-06  544447.8 3753934.5   259.4     0.00     1.70     0.76     YES
L0053667         0   0.12190E-06  544451.5 3753934.5   259.4     0.00     1.70     0.76     YES
L0053668         0   0.12190E-06  544455.1 3753934.5   259.4     0.00     1.70     0.76     YES
L0053669         0   0.12190E-06  544458.8 3753934.5   259.4     0.00     1.70     0.76     YES
L0053670         0   0.12190E-06  544462.4 3753934.5   259.3     0.00     1.70     0.76     YES
L0053671         0   0.12190E-06  544466.1 3753934.6   259.3     0.00     1.70     0.76     YES
L0053672         0   0.12190E-06  544469.7 3753934.6   259.3     0.00     1.70     0.76     YES
L0053673         0   0.12190E-06  544473.4 3753934.6   259.3     0.00     1.70     0.76     YES
L0053674         0   0.12190E-06  544477.1 3753934.6   259.3     0.00     1.70     0.76     YES
L0053675         0   0.12190E-06  544480.7 3753934.6   259.2     0.00     1.70     0.76     YES
L0053676         0   0.12190E-06  544484.4 3753934.6   259.2     0.00     1.70     0.76     YES
L0053677         0   0.12190E-06  544488.0 3753934.6   259.2     0.00     1.70     0.76     YES
L0053678         0   0.12190E-06  544491.7 3753934.6   259.2     0.00     1.70     0.76     YES
L0053679         0   0.12190E-06  544495.4 3753934.6   259.2     0.00     1.70     0.76     YES
L0053680         0   0.12190E-06  544499.0 3753934.6   259.2     0.00     1.70     0.76     YES
L0053681         0   0.12190E-06  544502.7 3753934.7   259.2     0.00     1.70     0.76     YES
L0053682         0   0.12190E-06  544506.3 3753934.7   259.1     0.00     1.70     0.76     YES
L0053683         0   0.12190E-06  544510.0 3753934.7   259.1     0.00     1.70     0.76     YES
L0053684         0   0.12190E-06  544513.6 3753934.7   259.1     0.00     1.70     0.76     YES
L0053685         0   0.12190E-06  544517.3 3753934.7   259.1     0.00     1.70     0.76     YES
L0053686         0   0.12190E-06  544521.0 3753934.7   259.1     0.00     1.70     0.76     YES
L0053687         0   0.12190E-06  544524.6 3753934.7   259.0     0.00     1.70     0.76     YES
L0053688         0   0.12190E-06  544528.3 3753934.7   259.0     0.00     1.70     0.76     YES
L0053689         0   0.12190E-06  544531.9 3753934.7   259.0     0.00     1.70     0.76     YES
L0053690         0   0.12190E-06  544535.6 3753934.8   259.0     0.00     1.70     0.76     YES
L0053691         0   0.12190E-06  544539.2 3753934.8   259.0     0.00     1.70     0.76     YES
L0053692         0   0.12190E-06  544542.9 3753934.8   258.9     0.00     1.70     0.76     YES
L0053693         0   0.12190E-06  544546.6 3753934.8   258.9     0.00     1.70     0.76     YES
L0053694         0   0.12190E-06  544550.2 3753934.8   258.9     0.00     1.70     0.76     YES
L0053695         0   0.12190E-06  544553.9 3753934.8   258.9     0.00     1.70     0.76     YES
L0053696         0   0.12190E-06  544557.5 3753934.8   258.9     0.00     1.70     0.76     YES
L0053697         0   0.12190E-06  544561.2 3753934.8   258.9     0.00     1.70     0.76     YES
L0053698         0   0.12190E-06  544564.8 3753934.8   258.8     0.00     1.70     0.76     YES
L0053699         0   0.12190E-06  544568.5 3753934.9   258.8     0.00     1.70     0.76     YES
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER	EMISSION RATE	BASE	RELEASE	INIT.	INIT.	URBAN	EMISSION RATE

SOURCE ID	PART. CATS.	(GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE	SCALAR VARY BY
L0053700	0	0.12190E-06	544572.2	3753934.9	258.8	0.00	1.70	0.76	YES	
L0053701	0	0.12190E-06	544575.8	3753934.9	258.8	0.00	1.70	0.76	YES	
L0053702	0	0.12190E-06	544579.5	3753934.9	258.8	0.00	1.70	0.76	YES	
L0053703	0	0.12190E-06	544583.1	3753934.9	258.7	0.00	1.70	0.76	YES	
L0053704	0	0.12190E-06	544586.8	3753934.9	258.7	0.00	1.70	0.76	YES	
L0053705	0	0.12190E-06	544590.4	3753934.9	258.7	0.00	1.70	0.76	YES	
L0053706	0	0.12190E-06	544594.1	3753934.9	258.7	0.00	1.70	0.76	YES	
L0053707	0	0.12190E-06	544597.8	3753934.9	258.7	0.00	1.70	0.76	YES	
L0053708	0	0.12190E-06	544601.4	3753935.0	258.7	0.00	1.70	0.76	YES	
L0053709	0	0.12190E-06	544605.1	3753935.0	258.7	0.00	1.70	0.76	YES	
L0053710	0	0.12190E-06	544608.7	3753935.0	258.7	0.00	1.70	0.76	YES	
L0053711	0	0.12190E-06	544612.4	3753935.0	258.6	0.00	1.70	0.76	YES	
L0053712	0	0.12190E-06	544616.1	3753935.0	258.6	0.00	1.70	0.76	YES	
L0053713	0	0.12190E-06	544619.7	3753935.0	258.6	0.00	1.70	0.76	YES	
L0053714	0	0.12190E-06	544623.4	3753935.0	258.6	0.00	1.70	0.76	YES	
L0053715	0	0.12190E-06	544627.0	3753935.0	258.6	0.00	1.70	0.76	YES	
L0053716	0	0.12190E-06	544630.7	3753935.0	258.6	0.00	1.70	0.76	YES	
L0053717	0	0.12190E-06	544634.3	3753935.1	258.5	0.00	1.70	0.76	YES	
L0053718	0	0.12190E-06	544638.0	3753935.1	258.5	0.00	1.70	0.76	YES	
L0053719	0	0.12190E-06	544641.7	3753935.1	258.5	0.00	1.70	0.76	YES	
L0053720	0	0.12190E-06	544645.3	3753935.1	258.5	0.00	1.70	0.76	YES	
L0053721	0	0.12190E-06	544649.0	3753935.1	258.5	0.00	1.70	0.76	YES	
L0053722	0	0.12190E-06	544652.6	3753935.1	258.5	0.00	1.70	0.76	YES	
L0053723	0	0.12190E-06	544656.3	3753935.1	258.5	0.00	1.70	0.76	YES	
L0053724	0	0.12190E-06	544659.9	3753935.1	258.5	0.00	1.70	0.76	YES	
L0053725	0	0.12190E-06	544663.6	3753935.1	258.4	0.00	1.70	0.76	YES	
L0053726	0	0.12190E-06	544667.3	3753935.1	258.4	0.00	1.70	0.76	YES	
L0053727	0	0.12190E-06	544670.9	3753935.2	258.4	0.00	1.70	0.76	YES	
L0053728	0	0.12190E-06	544674.6	3753935.2	258.4	0.00	1.70	0.76	YES	
L0053729	0	0.12190E-06	544678.2	3753935.2	258.4	0.00	1.70	0.76	YES	
L0053730	0	0.12190E-06	544681.9	3753935.2	258.4	0.00	1.70	0.76	YES	
L0053731	0	0.12190E-06	544685.5	3753935.2	258.4	0.00	1.70	0.76	YES	
L0053732	0	0.12190E-06	544689.2	3753935.2	258.3	0.00	1.70	0.76	YES	
L0053733	0	0.12190E-06	544692.9	3753935.2	258.3	0.00	1.70	0.76	YES	
L0053734	0	0.12190E-06	544696.5	3753935.2	258.3	0.00	1.70	0.76	YES	
L0053735	0	0.12190E-06	544700.2	3753935.2	258.3	0.00	1.70	0.76	YES	
L0053736	0	0.12190E-06	544703.8	3753935.3	258.3	0.00	1.70	0.76	YES	
L0053737	0	0.12190E-06	544707.5	3753935.3	258.3	0.00	1.70	0.76	YES	
L0053738	0	0.12190E-06	544711.1	3753935.3	258.3	0.00	1.70	0.76	YES	
L0053739	0	0.12190E-06	544714.8	3753935.3	258.2	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0053740	0	0.12190E-06	544718.5	3753935.3	258.2	0.00	1.70	0.76	YES	
L0053741	0	0.12190E-06	544722.1	3753935.3	258.2	0.00	1.70	0.76	YES	
L0053742	0	0.12190E-06	544725.8	3753935.3	258.2	0.00	1.70	0.76	YES	
L0053743	0	0.12190E-06	544729.4	3753935.3	258.2	0.00	1.70	0.76	YES	
L0053744	0	0.12190E-06	544733.1	3753935.3	258.2	0.00	1.70	0.76	YES	
L0053745	0	0.12190E-06	544736.8	3753935.4	258.2	0.00	1.70	0.76	YES	
L0053746	0	0.12190E-06	544740.4	3753935.4	258.2	0.00	1.70	0.76	YES	
L0053747	0	0.12190E-06	544744.1	3753935.4	258.2	0.00	1.70	0.76	YES	
L0053748	0	0.12190E-06	544747.7	3753935.4	258.2	0.00	1.70	0.76	YES	
L0053749	0	0.12190E-06	544751.4	3753935.4	258.1	0.00	1.70	0.76	YES	
L0053750	0	0.12190E-06	544755.0	3753935.4	258.1	0.00	1.70	0.76	YES	
L0053751	0	0.12190E-06	544758.7	3753935.4	258.1	0.00	1.70	0.76	YES	
L0053752	0	0.12190E-06	544762.4	3753935.4	258.1	0.00	1.70	0.76	YES	
L0053753	0	0.12190E-06	544766.0	3753935.4	258.1	0.00	1.70	0.76	YES	
L0053754	0	0.12190E-06	544769.7	3753935.5	258.1	0.00	1.70	0.76	YES	
L0053755	0	0.12190E-06	544773.3	3753935.5	258.1	0.00	1.70	0.76	YES	
L0053756	0	0.12190E-06	544777.0	3753935.5	258.1	0.00	1.70	0.76	YES	
L0053757	0	0.12190E-06	544780.6	3753935.5	258.1	0.00	1.70	0.76	YES	
L0053758	0	0.12190E-06	544784.3	3753935.5	258.1	0.00	1.70	0.76	YES	
L0053759	0	0.12190E-06	544788.0	3753935.5	258.1	0.00	1.70	0.76	YES	
L0053760	0	0.12190E-06	544791.6	3753935.5	258.1	0.00	1.70	0.76	YES	
L0053761	0	0.12190E-06	544795.3	3753935.5	258.0	0.00	1.70	0.76	YES	
L0053762	0	0.12190E-06	544798.9	3753935.5	258.0	0.00	1.70	0.76	YES	
L0053763	0	0.12190E-06	544802.6	3753935.5	258.0	0.00	1.70	0.76	YES	
L0053764	0	0.12190E-06	544806.2	3753935.6	258.0	0.00	1.70	0.76	YES	
L0053765	0	0.12190E-06	544809.9	3753935.6	258.0	0.00	1.70	0.76	YES	
L0053766	0	0.12190E-06	544813.6	3753935.6	258.0	0.00	1.70	0.76	YES	
L0053767	0	0.12190E-06	544817.2	3753935.6	258.0	0.00	1.70	0.76	YES	
L0053768	0	0.12190E-06	544820.9	3753935.6	258.0	0.00	1.70	0.76	YES	
L0053769	0	0.12190E-06	544824.5	3753935.6	258.0	0.00	1.70	0.76	YES	
L0053770	0	0.12190E-06	544828.2	3753935.6	258.0	0.00	1.70	0.76	YES	
L0053771	0	0.12190E-06	544831.8	3753935.6	258.0	0.00	1.70	0.76	YES	
L0053772	0	0.12190E-06	544835.5	3753935.6	258.0	0.00	1.70	0.76	YES	
L0053773	0	0.12190E-06	544839.2	3753935.7	257.9	0.00	1.70	0.76	YES	
L0053774	0	0.12190E-06	544842.8	3753935.7	257.9	0.00	1.70	0.76	YES	
L0053775	0	0.12190E-06	544846.5	3753935.7	257.9	0.00	1.70	0.76	YES	
L0053776	0	0.12190E-06	544850.1	3753935.7	257.9	0.00	1.70	0.76	YES	
L0053777	0	0.12190E-06	544853.8	3753935.7	257.9	0.00	1.70	0.76	YES	
L0053778	0	0.12190E-06	544857.5	3753935.7	257.9	0.00	1.70	0.76	YES	
L0053779	0	0.12190E-06	544861.1	3753935.7	257.9	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0053780	0	0.12190E-06	544864.8	3753935.7	257.9	0.00	1.70	0.76	YES	
L0053781	0	0.12190E-06	544868.4	3753935.7	257.9	0.00	1.70	0.76	YES	
L0053782	0	0.12190E-06	544872.1	3753935.8	257.9	0.00	1.70	0.76	YES	
L0053783	0	0.12190E-06	544875.7	3753935.8	257.9	0.00	1.70	0.76	YES	
L0053784	0	0.12190E-06	544879.4	3753935.8	257.9	0.00	1.70	0.76	YES	
L0053785	0	0.12190E-06	544883.1	3753935.8	257.9	0.00	1.70	0.76	YES	
L0053786	0	0.12190E-06	544886.7	3753935.8	257.9	0.00	1.70	0.76	YES	
L0053787	0	0.12190E-06	544890.4	3753935.8	257.9	0.00	1.70	0.76	YES	
L0053788	0	0.12190E-06	544894.0	3753935.8	257.9	0.00	1.70	0.76	YES	
L0053789	0	0.12190E-06	544897.7	3753935.8	257.9	0.00	1.70	0.76	YES	
L0053790	0	0.12190E-06	544901.3	3753935.8	257.8	0.00	1.70	0.76	YES	
L0053791	0	0.12190E-06	544905.0	3753935.9	257.8	0.00	1.70	0.76	YES	
L0053792	0	0.12190E-06	544908.7	3753935.9	257.8	0.00	1.70	0.76	YES	
L0053793	0	0.12190E-06	544912.3	3753935.9	257.8	0.00	1.70	0.76	YES	
L0053794	0	0.12190E-06	544916.0	3753935.9	257.8	0.00	1.70	0.76	YES	
L0053795	0	0.12190E-06	544919.6	3753935.9	257.8	0.00	1.70	0.76	YES	
L0053796	0	0.12190E-06	544923.3	3753935.9	257.8	0.00	1.70	0.76	YES	
L0053797	0	0.12190E-06	544926.9	3753935.9	257.8	0.00	1.70	0.76	YES	
L0053798	0	0.12190E-06	544930.6	3753935.9	257.8	0.00	1.70	0.76	YES	
L0053799	0	0.12190E-06	544934.3	3753935.9	257.8	0.00	1.70	0.76	YES	
L0053800	0	0.12190E-06	544937.9	3753935.9	257.8	0.00	1.70	0.76	YES	
L0053801	0	0.12190E-06	544941.6	3753936.0	257.8	0.00	1.70	0.76	YES	
L0053802	0	0.12190E-06	544945.2	3753936.0	257.8	0.00	1.70	0.76	YES	
L0053803	0	0.12190E-06	544948.9	3753936.0	257.8	0.00	1.70	0.76	YES	
L0053804	0	0.12190E-06	544952.6	3753936.0	257.8	0.00	1.70	0.76	YES	
L0053805	0	0.12190E-06	544956.2	3753936.0	257.7	0.00	1.70	0.76	YES	
L0053806	0	0.12190E-06	544959.9	3753936.0	257.7	0.00	1.70	0.76	YES	
L0053807	0	0.12190E-06	544963.5	3753936.0	257.7	0.00	1.70	0.76	YES	
L0053808	0	0.12190E-06	544967.2	3753936.0	257.7	0.00	1.70	0.76	YES	
L0053809	0	0.12190E-06	544970.8	3753936.0	257.7	0.00	1.70	0.76	YES	
L0053810	0	0.12190E-06	544974.5	3753936.1	257.7	0.00	1.70	0.76	YES	
L0053811	0	0.12190E-06	544978.2	3753936.1	257.7	0.00	1.70	0.76	YES	
L0053812	0	0.12190E-06	544981.8	3753936.1	257.7	0.00	1.70	0.76	YES	
L0053813	0	0.12190E-06	544985.5	3753936.1	257.7	0.00	1.70	0.76	YES	
L0053814	0	0.12190E-06	544989.1	3753936.1	257.7	0.00	1.70	0.76	YES	
L0053815	0	0.12190E-06	544992.8	3753936.1	257.7	0.00	1.70	0.76	YES	
L0053816	0	0.12190E-06	544996.4	3753936.1	257.7	0.00	1.70	0.76	YES	
L0053817	0	0.12190E-06	545000.1	3753936.1	257.7	0.00	1.70	0.76	YES	
L0053818	0	0.12190E-06	545003.8	3753936.1	257.7	0.00	1.70	0.76	YES	
L0053819	0	0.12190E-06	545007.4	3753936.2	257.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0053820	0	0.12190E-06	545011.1	3753936.2	257.7	0.00	1.70	0.76	YES	
L0053821	0	0.12190E-06	545014.7	3753936.2	257.7	0.00	1.70	0.76	YES	
L0053822	0	0.12190E-06	545018.4	3753936.2	257.7	0.00	1.70	0.76	YES	
L0053823	0	0.12190E-06	545022.0	3753936.2	257.7	0.00	1.70	0.76	YES	
L0053824	0	0.12190E-06	545025.7	3753936.2	257.7	0.00	1.70	0.76	YES	
L0053825	0	0.12190E-06	545029.4	3753936.2	257.7	0.00	1.70	0.76	YES	
L0053826	0	0.12190E-06	545033.0	3753936.2	257.7	0.00	1.70	0.76	YES	
L0053827	0	0.12190E-06	545036.7	3753936.2	257.6	0.00	1.70	0.76	YES	
L0053828	0	0.12190E-06	545040.3	3753936.3	257.6	0.00	1.70	0.76	YES	
L0053829	0	0.12190E-06	545044.0	3753936.3	257.6	0.00	1.70	0.76	YES	
L0053830	0	0.12190E-06	545047.6	3753936.3	257.6	0.00	1.70	0.76	YES	
L0053831	0	0.12190E-06	545051.3	3753936.3	257.6	0.00	1.70	0.76	YES	
L0053832	0	0.12190E-06	545055.0	3753936.3	257.6	0.00	1.70	0.76	YES	
L0053833	0	0.12190E-06	545058.6	3753936.3	257.6	0.00	1.70	0.76	YES	
L0053834	0	0.12190E-06	545062.3	3753936.3	257.6	0.00	1.70	0.76	YES	
L0053835	0	0.12190E-06	545065.9	3753936.3	257.6	0.00	1.70	0.76	YES	
L0053836	0	0.12190E-06	545069.6	3753936.3	257.6	0.00	1.70	0.76	YES	
L0053837	0	0.12190E-06	545073.2	3753936.3	257.6	0.00	1.70	0.76	YES	
L0053838	0	0.12190E-06	545076.9	3753936.4	257.6	0.00	1.70	0.76	YES	
L0053839	0	0.12190E-06	545080.6	3753936.4	257.6	0.00	1.70	0.76	YES	
L0053840	0	0.12190E-06	545084.2	3753936.4	257.6	0.00	1.70	0.76	YES	
L0053841	0	0.12190E-06	545087.9	3753936.4	257.6	0.00	1.70	0.76	YES	
L0053842	0	0.12190E-06	545091.5	3753936.4	257.5	0.00	1.70	0.76	YES	
L0053843	0	0.12190E-06	545095.2	3753936.4	257.5	0.00	1.70	0.76	YES	
L0053844	0	0.12190E-06	545098.9	3753936.4	257.5	0.00	1.70	0.76	YES	
L0053845	0	0.12190E-06	545102.5	3753936.4	257.5	0.00	1.70	0.76	YES	
L0053846	0	0.12190E-06	545106.2	3753936.4	257.5	0.00	1.70	0.76	YES	
L0053847	0	0.12190E-06	545109.8	3753936.5	257.5	0.00	1.70	0.76	YES	
L0053848	0	0.12190E-06	545113.5	3753936.5	257.5	0.00	1.70	0.76	YES	
L0053849	0	0.12190E-06	545117.1	3753936.5	257.5	0.00	1.70	0.76	YES	
L0053850	0	0.12190E-06	545120.8	3753936.5	257.5	0.00	1.70	0.76	YES	
L0053851	0	0.12190E-06	545124.5	3753936.5	257.5	0.00	1.70	0.76	YES	
L0053852	0	0.12190E-06	545128.1	3753936.5	257.5	0.00	1.70	0.76	YES	
L0053853	0	0.12190E-06	545131.8	3753936.5	257.5	0.00	1.70	0.76	YES	
L0053854	0	0.12190E-06	545135.4	3753936.5	257.4	0.00	1.70	0.76	YES	
L0053855	0	0.12190E-06	545139.1	3753936.5	257.4	0.00	1.70	0.76	YES	
L0053856	0	0.12190E-06	545142.7	3753936.6	257.4	0.00	1.70	0.76	YES	
L0053857	0	0.12190E-06	545146.4	3753936.6	257.4	0.00	1.70	0.76	YES	

L0053858	0	0.12190E-06	545150.1	3753936.6	257.4	0.00	1.70	0.76	YES	
L0053859	0	0.12190E-06	545153.7	3753936.6	257.4	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0053860	0	0.12190E-06	545157.4	3753936.6	257.4	0.00	1.70	0.76	YES	
L0053861	0	0.12190E-06	545161.0	3753936.6	257.4	0.00	1.70	0.76	YES	
L0053862	0	0.12190E-06	545164.7	3753936.6	257.3	0.00	1.70	0.76	YES	
L0053863	0	0.12190E-06	545168.3	3753936.6	257.3	0.00	1.70	0.76	YES	
L0053864	0	0.12190E-06	545172.0	3753936.6	257.3	0.00	1.70	0.76	YES	
L0053865	0	0.12190E-06	545175.7	3753936.7	257.3	0.00	1.70	0.76	YES	
L0053866	0	0.12190E-06	545179.3	3753936.7	257.3	0.00	1.70	0.76	YES	
L0053867	0	0.12190E-06	545183.0	3753936.7	257.2	0.00	1.70	0.76	YES	
L0053868	0	0.12190E-06	545186.6	3753936.7	257.2	0.00	1.70	0.76	YES	
L0053869	0	0.12190E-06	545190.3	3753936.7	257.2	0.00	1.70	0.76	YES	
L0053870	0	0.12190E-06	545194.0	3753936.7	257.2	0.00	1.70	0.76	YES	
L0053871	0	0.12190E-06	545197.6	3753936.7	257.2	0.00	1.70	0.76	YES	
L0053872	0	0.12190E-06	545201.3	3753936.7	257.2	0.00	1.70	0.76	YES	
L0053873	0	0.12190E-06	545204.9	3753936.7	257.1	0.00	1.70	0.76	YES	
L0053874	0	0.12190E-06	545208.6	3753936.8	257.1	0.00	1.70	0.76	YES	
L0053875	0	0.12190E-06	545212.2	3753936.8	257.0	0.00	1.70	0.76	YES	
L0053876	0	0.12190E-06	545215.9	3753936.8	257.0	0.00	1.70	0.76	YES	
L0053877	0	0.12190E-06	545219.6	3753936.8	257.0	0.00	1.70	0.76	YES	
L0053878	0	0.12190E-06	545223.2	3753936.8	256.9	0.00	1.70	0.76	YES	
L0053879	0	0.12190E-06	545226.9	3753936.8	256.9	0.00	1.70	0.76	YES	
L0053880	0	0.12190E-06	545230.5	3753936.8	256.9	0.00	1.70	0.76	YES	
L0053881	0	0.12190E-06	545234.2	3753936.8	256.8	0.00	1.70	0.76	YES	
L0053882	0	0.12190E-06	545237.8	3753936.8	256.8	0.00	1.70	0.76	YES	
L0053883	0	0.12190E-06	545241.5	3753936.8	256.7	0.00	1.70	0.76	YES	
L0053884	0	0.12190E-06	545245.2	3753936.9	256.7	0.00	1.70	0.76	YES	
L0053885	0	0.12190E-06	545248.8	3753936.9	256.6	0.00	1.70	0.76	YES	
L0053886	0	0.12190E-06	545252.5	3753936.9	256.6	0.00	1.70	0.76	YES	
L0053887	0	0.12190E-06	545256.1	3753936.9	256.6	0.00	1.70	0.76	YES	
L0053888	0	0.12190E-06	545259.8	3753936.9	256.5	0.00	1.70	0.76	YES	
L0053889	0	0.12190E-06	545263.4	3753936.9	256.5	0.00	1.70	0.76	YES	
L0053890	0	0.12190E-06	545267.1	3753936.9	256.4	0.00	1.70	0.76	YES	
L0053891	0	0.12190E-06	545270.8	3753936.9	256.4	0.00	1.70	0.76	YES	
L0053892	0	0.12190E-06	545274.4	3753936.9	256.4	0.00	1.70	0.76	YES	
L0053893	0	0.12190E-06	545278.1	3753937.0	256.3	0.00	1.70	0.76	YES	
L0053894	0	0.12190E-06	545281.7	3753937.0	256.3	0.00	1.70	0.76	YES	

L0053895	0	0.12190E-06	545285.4	3753937.0	256.2	0.00	1.70	0.76	YES	
L0053896	0	0.12190E-06	545289.0	3753937.0	256.2	0.00	1.70	0.76	YES	
L0053897	0	0.12190E-06	545292.7	3753937.0	256.2	0.00	1.70	0.76	YES	
L0053898	0	0.12190E-06	545296.4	3753937.0	256.1	0.00	1.70	0.76	YES	
L0053899	0	0.12190E-06	545300.0	3753937.0	256.1	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0053900	0	0.12190E-06	545303.7	3753937.0	256.1	0.00	1.70	0.76	YES	
L0053901	0	0.12190E-06	545307.3	3753937.0	256.0	0.00	1.70	0.76	YES	
L0053902	0	0.12190E-06	545311.0	3753937.1	256.0	0.00	1.70	0.76	YES	
L0053903	0	0.12190E-06	545314.7	3753937.1	256.0	0.00	1.70	0.76	YES	
L0053904	0	0.12190E-06	545318.3	3753937.1	255.9	0.00	1.70	0.76	YES	
L0053905	0	0.12190E-06	545322.0	3753937.1	255.9	0.00	1.70	0.76	YES	
L0053906	0	0.12190E-06	545325.6	3753937.1	255.9	0.00	1.70	0.76	YES	
L0053907	0	0.12190E-06	545329.3	3753937.1	255.8	0.00	1.70	0.76	YES	
L0053908	0	0.12190E-06	545332.9	3753937.1	255.8	0.00	1.70	0.76	YES	
L0053909	0	0.12190E-06	545336.6	3753937.1	255.8	0.00	1.70	0.76	YES	
L0053910	0	0.12190E-06	545340.3	3753937.1	255.8	0.00	1.70	0.76	YES	
L0053911	0	0.12190E-06	545343.9	3753937.2	255.8	0.00	1.70	0.76	YES	
L0053912	0	0.12190E-06	545347.6	3753937.2	255.8	0.00	1.70	0.76	YES	
L0053913	0	0.12190E-06	545351.2	3753937.2	255.8	0.00	1.70	0.76	YES	
L0053914	0	0.12190E-06	545354.9	3753937.2	255.8	0.00	1.70	0.76	YES	
L0053915	0	0.12190E-06	545358.5	3753937.2	255.8	0.00	1.70	0.76	YES	
L0053916	0	0.12190E-06	545362.2	3753937.2	255.8	0.00	1.70	0.76	YES	
L0053917	0	0.12190E-06	545365.9	3753937.2	255.8	0.00	1.70	0.76	YES	
L0053918	0	0.12190E-06	545369.5	3753937.2	255.8	0.00	1.70	0.76	YES	
L0053919	0	0.12190E-06	545373.2	3753937.2	255.8	0.00	1.70	0.76	YES	
L0053920	0	0.12190E-06	545376.8	3753937.2	255.8	0.00	1.70	0.76	YES	
L0053921	0	0.12190E-06	545380.5	3753937.3	255.8	0.00	1.70	0.76	YES	
L0053922	0	0.12190E-06	545384.1	3753937.3	255.8	0.00	1.70	0.76	YES	
L0053923	0	0.12190E-06	545387.8	3753937.3	255.8	0.00	1.70	0.76	YES	
L0053924	0	0.12190E-06	545391.5	3753937.3	255.8	0.00	1.70	0.76	YES	
L0053925	0	0.12190E-06	545395.1	3753937.3	255.8	0.00	1.70	0.76	YES	
L0053926	0	0.12190E-06	545398.8	3753937.3	255.8	0.00	1.70	0.76	YES	
L0053927	0	0.12190E-06	545402.4	3753937.3	255.8	0.00	1.70	0.76	YES	
L0053928	0	0.12190E-06	545406.1	3753937.3	255.8	0.00	1.70	0.76	YES	
L0053929	0	0.12190E-06	545409.7	3753937.3	255.8	0.00	1.70	0.76	YES	
L0053930	0	0.12190E-06	545413.4	3753937.4	255.7	0.00	1.70	0.76	YES	
L0053931	0	0.12190E-06	545417.1	3753937.4	255.7	0.00	1.70	0.76	YES	

L0053932	0	0.12190E-06	545420.7	3753937.4	255.7	0.00	1.70	0.76	YES	
L0053933	0	0.12190E-06	545424.4	3753937.4	255.7	0.00	1.70	0.76	YES	
L0053934	0	0.12190E-06	545428.0	3753937.4	255.7	0.00	1.70	0.76	YES	
L0053935	0	0.12190E-06	545431.7	3753937.4	255.7	0.00	1.70	0.76	YES	
L0053936	0	0.12190E-06	545435.4	3753937.4	255.7	0.00	1.70	0.76	YES	
L0053937	0	0.12190E-06	545439.0	3753937.4	255.7	0.00	1.70	0.76	YES	
L0053938	0	0.12190E-06	545442.7	3753937.4	255.7	0.00	1.70	0.76	YES	
L0053939	0	0.12190E-06	545446.3	3753937.5	255.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0053940	0	0.12190E-06	545450.0	3753937.5	255.7	0.00	1.70	0.76	YES	
L0053941	0	0.12190E-06	545453.6	3753937.5	255.7	0.00	1.70	0.76	YES	
L0053942	0	0.12190E-06	545457.3	3753937.5	255.7	0.00	1.70	0.76	YES	
L0053943	0	0.12190E-06	545461.0	3753937.5	255.7	0.00	1.70	0.76	YES	
L0053944	0	0.12190E-06	545464.6	3753937.5	255.6	0.00	1.70	0.76	YES	
L0053945	0	0.12190E-06	545468.3	3753937.5	255.6	0.00	1.70	0.76	YES	
L0053946	0	0.12190E-06	545471.9	3753937.5	255.6	0.00	1.70	0.76	YES	
L0053947	0	0.12190E-06	545475.6	3753937.5	255.6	0.00	1.70	0.76	YES	
L0053948	0	0.12190E-06	545479.2	3753937.6	255.6	0.00	1.70	0.76	YES	
L0053949	0	0.12190E-06	545482.9	3753937.6	255.6	0.00	1.70	0.76	YES	
L0053950	0	0.12190E-06	545486.6	3753937.6	255.6	0.00	1.70	0.76	YES	
L0053951	0	0.12190E-06	545490.2	3753937.6	255.6	0.00	1.70	0.76	YES	
L0053952	0	0.12190E-06	545493.9	3753937.6	255.6	0.00	1.70	0.76	YES	
L0053953	0	0.12190E-06	545497.5	3753937.6	255.6	0.00	1.70	0.76	YES	
L0053954	0	0.12190E-06	545501.2	3753937.6	255.5	0.00	1.70	0.76	YES	
L0053955	0	0.12190E-06	545504.8	3753937.6	255.5	0.00	1.70	0.76	YES	
L0053956	0	0.12190E-06	545508.5	3753937.6	255.5	0.00	1.70	0.76	YES	
L0053957	0	0.12190E-06	545512.2	3753937.6	255.5	0.00	1.70	0.76	YES	
L0053958	0	0.12190E-06	545515.8	3753937.7	255.5	0.00	1.70	0.76	YES	
L0053959	0	0.12190E-06	545519.5	3753937.7	255.5	0.00	1.70	0.76	YES	
L0053960	0	0.12190E-06	545523.1	3753937.7	255.5	0.00	1.70	0.76	YES	
L0053961	0	0.12190E-06	545526.8	3753937.7	255.4	0.00	1.70	0.76	YES	
L0053962	0	0.12190E-06	545530.4	3753937.7	255.4	0.00	1.70	0.76	YES	
L0053963	0	0.12190E-06	545534.1	3753937.7	255.4	0.00	1.70	0.76	YES	
L0053964	0	0.12190E-06	545537.8	3753937.7	255.4	0.00	1.70	0.76	YES	
L0053965	0	0.12190E-06	545541.4	3753937.7	255.4	0.00	1.70	0.76	YES	
L0053966	0	0.12190E-06	545545.1	3753937.7	255.4	0.00	1.70	0.76	YES	
L0053967	0	0.12190E-06	545548.7	3753937.8	255.4	0.00	1.70	0.76	YES	
L0053968	0	0.12190E-06	545552.4	3753937.8	255.4	0.00	1.70	0.76	YES	

L0053969	0	0.12190E-06	545556.1	3753937.8	255.3	0.00	1.70	0.76	YES
L0053970	0	0.12190E-06	545559.7	3753937.8	255.3	0.00	1.70	0.76	YES
L0053971	0	0.12190E-06	545563.4	3753937.8	255.3	0.00	1.70	0.76	YES
L0053972	0	0.12190E-06	545567.0	3753937.8	255.3	0.00	1.70	0.76	YES
L0053973	0	0.12190E-06	545570.7	3753937.8	255.3	0.00	1.70	0.76	YES
L0053974	0	0.12190E-06	545574.3	3753937.8	255.3	0.00	1.70	0.76	YES
L0053975	0	0.12190E-06	545578.0	3753937.8	255.2	0.00	1.70	0.76	YES
L0053976	0	0.12190E-06	545581.7	3753937.9	255.2	0.00	1.70	0.76	YES
L0053977	0	0.12190E-06	545585.3	3753937.9	255.2	0.00	1.70	0.76	YES
L0053978	0	0.12190E-06	545589.0	3753937.9	255.2	0.00	1.70	0.76	YES
L0053979	0	0.12190E-06	545592.6	3753937.9	255.2	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0053980	0	0.12190E-06	545596.3	3753937.9	255.2	0.00	1.70	0.76	YES	
L0053981	0	0.12190E-06	545599.9	3753937.9	255.2	0.00	1.70	0.76	YES	
L0053982	0	0.12190E-06	545603.6	3753937.9	255.2	0.00	1.70	0.76	YES	
L0053983	0	0.12190E-06	545607.3	3753937.9	255.1	0.00	1.70	0.76	YES	
L0053984	0	0.12190E-06	545610.9	3753937.9	255.1	0.00	1.70	0.76	YES	
L0053985	0	0.12190E-06	545614.6	3753938.0	255.1	0.00	1.70	0.76	YES	
L0053986	0	0.12190E-06	545618.2	3753938.0	255.1	0.00	1.70	0.76	YES	
L0053987	0	0.12190E-06	545621.9	3753938.0	255.1	0.00	1.70	0.76	YES	
L0053988	0	0.12190E-06	545625.5	3753938.0	255.1	0.00	1.70	0.76	YES	
L0053989	0	0.12190E-06	545629.2	3753938.0	255.1	0.00	1.70	0.76	YES	
L0053990	0	0.12190E-06	545632.9	3753938.0	255.0	0.00	1.70	0.76	YES	
L0053991	0	0.12190E-06	545636.5	3753938.0	255.0	0.00	1.70	0.76	YES	
L0053992	0	0.12190E-06	545640.2	3753938.0	255.0	0.00	1.70	0.76	YES	
L0053993	0	0.12190E-06	545643.8	3753938.0	255.0	0.00	1.70	0.76	YES	
L0053994	0	0.12190E-06	545647.5	3753938.1	254.9	0.00	1.70	0.76	YES	
L0053995	0	0.12190E-06	545651.1	3753938.1	254.9	0.00	1.70	0.76	YES	
L0053996	0	0.12190E-06	545654.8	3753938.1	254.9	0.00	1.70	0.76	YES	
L0053997	0	0.12190E-06	545658.5	3753938.1	254.9	0.00	1.70	0.76	YES	
L0053998	0	0.12190E-06	545662.1	3753938.1	254.8	0.00	1.70	0.76	YES	
L0053999	0	0.12190E-06	545665.8	3753938.1	254.8	0.00	1.70	0.76	YES	
L0054000	0	0.12190E-06	545669.4	3753938.1	254.8	0.00	1.70	0.76	YES	
L0054001	0	0.12190E-06	545673.1	3753938.1	254.8	0.00	1.70	0.76	YES	
L0054002	0	0.12190E-06	545676.8	3753938.1	254.7	0.00	1.70	0.76	YES	
L0054003	0	0.12190E-06	545680.4	3753938.1	254.7	0.00	1.70	0.76	YES	
L0054004	0	0.12190E-06	545684.1	3753938.2	254.7	0.00	1.70	0.76	YES	
L0054005	0	0.12190E-06	545687.7	3753938.2	254.7	0.00	1.70	0.76	YES	

L0054006	0	0.12190E-06	545691.4	3753938.2	254.6	0.00	1.70	0.76	YES
L0054007	0	0.12190E-06	545695.0	3753938.2	254.6	0.00	1.70	0.76	YES
L0054008	0	0.12190E-06	545698.7	3753938.2	254.6	0.00	1.70	0.76	YES
L0054009	0	0.12190E-06	545702.4	3753938.2	254.6	0.00	1.70	0.76	YES
L0054010	0	0.12190E-06	545706.0	3753938.2	254.5	0.00	1.70	0.76	YES
L0054011	0	0.12190E-06	545709.7	3753938.2	254.5	0.00	1.70	0.76	YES
L0054012	0	0.12190E-06	545713.3	3753938.2	254.5	0.00	1.70	0.76	YES
L0054013	0	0.12190E-06	545717.0	3753938.3	254.5	0.00	1.70	0.76	YES
L0054014	0	0.12190E-06	545720.6	3753938.3	254.5	0.00	1.70	0.76	YES
L0054015	0	0.12190E-06	545724.3	3753938.3	254.4	0.00	1.70	0.76	YES
L0054016	0	0.12190E-06	545728.0	3753938.3	254.4	0.00	1.70	0.76	YES
L0054017	0	0.12190E-06	545731.6	3753938.3	254.4	0.00	1.70	0.76	YES
L0054018	0	0.12190E-06	545735.3	3753938.3	254.4	0.00	1.70	0.76	YES
L0054019	0	0.12190E-06	545738.9	3753938.3	254.3	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0054020	0	0.12190E-06	545742.6	3753938.3	254.3	0.00	1.70	0.76	YES	
L0054021	0	0.12190E-06	545746.2	3753938.3	254.3	0.00	1.70	0.76	YES	
L0054022	0	0.12190E-06	545749.9	3753938.4	254.2	0.00	1.70	0.76	YES	
L0054023	0	0.12190E-06	545753.6	3753938.4	254.2	0.00	1.70	0.76	YES	
L0054024	0	0.12190E-06	545757.2	3753938.4	254.2	0.00	1.70	0.76	YES	
L0054025	0	0.12190E-06	545760.9	3753938.4	254.2	0.00	1.70	0.76	YES	
L0054026	0	0.12190E-06	545764.5	3753938.4	254.1	0.00	1.70	0.76	YES	
L0054027	0	0.12190E-06	545768.2	3753938.4	254.1	0.00	1.70	0.76	YES	
L0054028	0	0.12190E-06	545771.8	3753938.4	254.1	0.00	1.70	0.76	YES	
L0054029	0	0.12190E-06	545775.5	3753938.4	254.0	0.00	1.70	0.76	YES	
L0054030	0	0.12190E-06	545779.2	3753938.4	254.0	0.00	1.70	0.76	YES	
L0054031	0	0.12190E-06	545782.8	3753938.5	254.0	0.00	1.70	0.76	YES	
L0054032	0	0.12190E-06	545786.5	3753938.5	254.0	0.00	1.70	0.76	YES	
L0054033	0	0.12190E-06	545790.1	3753938.5	253.9	0.00	1.70	0.76	YES	
L0054034	0	0.12190E-06	545793.8	3753938.5	253.9	0.00	1.70	0.76	YES	
L0054035	0	0.12190E-06	545797.5	3753938.5	253.9	0.00	1.70	0.76	YES	
L0054036	0	0.12190E-06	545801.1	3753938.5	253.8	0.00	1.70	0.76	YES	
L0054037	0	0.12190E-06	545804.8	3753938.5	253.8	0.00	1.70	0.76	YES	
L0054038	0	0.12190E-06	545808.4	3753938.5	253.8	0.00	1.70	0.76	YES	
L0054039	0	0.12190E-06	545812.1	3753938.5	253.7	0.00	1.70	0.76	YES	
L0054040	0	0.12190E-06	545815.7	3753938.5	253.7	0.00	1.70	0.76	YES	
L0054041	0	0.12190E-06	545819.4	3753938.6	253.6	0.00	1.70	0.76	YES	
L0054042	0	0.12190E-06	545823.1	3753938.6	253.6	0.00	1.70	0.76	YES	

L0054043	0	0.12190E-06	545826.7	3753938.6	253.5	0.00	1.70	0.76	YES	
L0054044	0	0.12190E-06	545830.4	3753938.6	253.5	0.00	1.70	0.76	YES	
L0054045	0	0.12190E-06	545834.0	3753938.6	253.4	0.00	1.70	0.76	YES	
L0054046	0	0.12190E-06	545837.7	3753938.6	253.4	0.00	1.70	0.76	YES	
L0054047	0	0.12190E-06	545841.3	3753938.6	253.3	0.00	1.70	0.76	YES	
L0054048	0	0.12190E-06	545845.0	3753938.6	253.3	0.00	1.70	0.76	YES	
L0054049	0	0.12190E-06	545848.7	3753938.6	253.3	0.00	1.70	0.76	YES	
L0054050	0	0.12190E-06	545852.3	3753938.7	253.3	0.00	1.70	0.76	YES	
L0054051	0	0.12190E-06	545856.0	3753938.7	253.3	0.00	1.70	0.76	YES	
L0054052	0	0.12190E-06	545859.6	3753938.7	253.3	0.00	1.70	0.76	YES	
L0054053	0	0.12190E-06	545863.3	3753938.7	253.3	0.00	1.70	0.76	YES	
L0054054	0	0.12190E-06	545866.9	3753938.7	253.2	0.00	1.70	0.76	YES	
L0054055	0	0.12190E-06	545870.6	3753938.7	253.2	0.00	1.70	0.76	YES	
L0054056	0	0.12190E-06	545874.3	3753938.7	253.2	0.00	1.70	0.76	YES	
L0054057	0	0.12190E-06	545877.9	3753938.7	253.2	0.00	1.70	0.76	YES	
L0054058	0	0.12190E-06	545881.6	3753938.7	253.2	0.00	1.70	0.76	YES	
L0054059	0	0.12190E-06	545885.2	3753938.8	253.2	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0054060	0	0.12190E-06	545888.9	3753938.8	253.1	0.00	1.70	0.76	YES	
L0054061	0	0.12190E-06	545892.5	3753938.8	253.1	0.00	1.70	0.76	YES	
L0054062	0	0.12190E-06	545896.2	3753938.8	253.1	0.00	1.70	0.76	YES	
L0054063	0	0.12190E-06	545899.9	3753938.8	253.0	0.00	1.70	0.76	YES	
L0054064	0	0.12190E-06	545903.5	3753938.8	253.0	0.00	1.70	0.76	YES	
L0054065	0	0.12190E-06	545907.2	3753938.8	252.9	0.00	1.70	0.76	YES	
L0054066	0	0.12190E-06	545910.8	3753938.8	252.9	0.00	1.70	0.76	YES	
L0054067	0	0.12190E-06	545914.5	3753938.8	252.8	0.00	1.70	0.76	YES	
L0054068	0	0.12190E-06	545918.2	3753938.9	252.8	0.00	1.70	0.76	YES	
L0054069	0	0.12190E-06	545921.8	3753938.9	252.7	0.00	1.70	0.76	YES	
L0054070	0	0.12190E-06	545925.5	3753938.9	252.7	0.00	1.70	0.76	YES	
L0054071	0	0.12190E-06	545929.1	3753938.9	252.7	0.00	1.70	0.76	YES	
L0054072	0	0.12190E-06	545932.8	3753938.9	252.6	0.00	1.70	0.76	YES	
L0054073	0	0.12190E-06	545936.4	3753938.9	252.6	0.00	1.70	0.76	YES	
L0054074	0	0.12190E-06	545940.1	3753938.9	252.6	0.00	1.70	0.76	YES	
L0054075	0	0.12190E-06	545943.8	3753938.9	252.5	0.00	1.70	0.76	YES	
L0054076	0	0.12190E-06	545947.4	3753938.9	252.5	0.00	1.70	0.76	YES	
L0054077	0	0.12190E-06	545951.1	3753938.9	252.5	0.00	1.70	0.76	YES	
L0054078	0	0.12190E-06	545954.7	3753939.0	252.4	0.00	1.70	0.76	YES	
L0054079	0	0.12190E-06	545958.4	3753939.0	252.4	0.00	1.70	0.76	YES	

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L0054080         0   0.12190E-06  545962.0 3753939.0   252.4     0.00     1.70     0.76     YES
L0054081         0   0.12190E-06  545965.7 3753939.0   252.4     0.00     1.70     0.76     YES
L0054082         0   0.12190E-06  545969.4 3753939.0   252.4     0.00     1.70     0.76     YES
L0054083         0   0.12190E-06  545973.0 3753939.0   252.3     0.00     1.70     0.76     YES
L0054084         0   0.12190E-06  545976.7 3753939.0   252.3     0.00     1.70     0.76     YES
L0054085         0   0.12190E-06  545980.3 3753939.0   252.2     0.00     1.70     0.76     YES
L0054086         0   0.12190E-06  545984.0 3753939.0   252.2     0.00     1.70     0.76     YES
L0054087         0   0.12190E-06  545987.6 3753939.1   252.2     0.00     1.70     0.76     YES
L0054088         0   0.12190E-06  545991.3 3753939.1   252.1     0.00     1.70     0.76     YES
L0054089         0   0.12190E-06  545995.0 3753939.1   252.1     0.00     1.70     0.76     YES
L0054090         0   0.12190E-06  545998.6 3753939.1   252.1     0.00     1.70     0.76     YES
L0054091         0   0.12190E-06  546002.3 3753939.1   252.1     0.00     1.70     0.76     YES
L0054092         0   0.12190E-06  546005.9 3753939.1   252.0     0.00     1.70     0.76     YES
L0054093         0   0.12190E-06  546009.6 3753939.1   252.0     0.00     1.70     0.76     YES
L0054094         0   0.12190E-06  546013.2 3753939.1   252.0     0.00     1.70     0.76     YES
L0054095         0   0.12190E-06  546016.9 3753939.1   252.0     0.00     1.70     0.76     YES
L0054096         0   0.12190E-06  546020.6 3753939.2   252.0     0.00     1.70     0.76     YES
L0054097         0   0.12190E-06  546024.2 3753939.2   252.0     0.00     1.70     0.76     YES
L0054098         0   0.12190E-06  546027.9 3753939.2   252.0     0.00     1.70     0.76     YES
L0054099         0   0.12190E-06  546031.5 3753939.2   252.0     0.00     1.70     0.76     YES

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 1 yr                          ***        05/23/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 1 yr                                ***        16:16:28
                                                                                                                PAGE  99
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** VOLUME SOURCE DATA ***

             NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.   URBAN  EMISSION RATE
  SOURCE      PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT     SY       SZ     SOURCE  SCALAR VARY
    ID        CATS.              (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)             BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

L0054100         0   0.12190E-06  546035.2 3753939.2   251.9     0.00     1.70     0.76     YES
L0054101         0   0.12190E-06  546038.9 3753939.2   251.9     0.00     1.70     0.76     YES
L0054102         0   0.12190E-06  546042.5 3753939.2   251.9     0.00     1.70     0.76     YES
L0054103         0   0.12190E-06  546046.2 3753939.2   251.9     0.00     1.70     0.76     YES
L0054104         0   0.12190E-06  546049.8 3753939.2   251.9     0.00     1.70     0.76     YES
L0054105         0   0.12190E-06  546053.5 3753939.3   251.9     0.00     1.70     0.76     YES
L0054106         0   0.12190E-06  546057.1 3753939.3   251.9     0.00     1.70     0.76     YES

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 1 yr                          ***        05/23/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 1 yr                                ***        16:16:28
                                                                                                                PAGE 100
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                     *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID                                          SOURCE IDs
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*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 1 yr                          ***        05/23/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 1 yr                                 ***        16:16:28
                                                                                                                 PAGE 101
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                  *** SOURCE IDs DEFINING SOURCE GROUPS ***
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SRCGROUP ID

SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID

SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID — SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID — SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID   SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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                                    *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID                                          SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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            L0050888    , L0050889    , L0050890    , L0050891    , L0050892    , L0050893    , L0050894    , L0050895    ,
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

-------- ---------   ----------

L0050896 , L0050897 , L0050898 , L0050899 , L0050900 , L0050901 , L0050902 , L0050903 ,
L0050904 , L0050905 , L0050906 , L0050907 , L0050908 , L0050909 , L0050910 , L0050911 ,
L0050912 , L0050913 , L0050914 , L0050915 , L0050916 , L0050917 , L0050918 , L0050919 ,
L0050920 , L0050921 , L0050922 , L0050923 , L0050924 , L0050925 , L0050926 , L0050927 ,
L0050928 , L0050929 , L0050930 , L0050931 , L0050932 , L0050933 , L0050934 , L0050935 ,
L0050936 , L0050937 , L0050938 , L0050939 , L0050940 , L0050941 , L0050942 , L0050943 ,
L0050944 , L0050945 , L0050946 , L0050947 , L0050948 , L0050949 , L0050950 , L0050951 ,
L0050952 , L0050953 , L0050954 , L0050955 , L0050956 , L0050957 , L0050958 , L0050959 ,
L0050960 , L0050961 , L0050962 , L0050963 , L0050964 , L0050965 , L0050966 , L0050967 ,
L0050968 , L0050969 , L0050970 , L0050971 , L0050972 , L0050973 , L0050974 , L0050975 ,
L0050976 , L0050977 , L0050978 , L0050979 , L0050980 , L0050981 , L0050982 , L0050983 ,
L0050984 , L0050985 , L0050986 , L0050987 , L0050988 , L0050989 , L0050990 , L0050991 ,
L0050992 , L0050993 , L0050994 , L0050995 , L0050996 , L0050997 , L0050998 , L0050999 ,
L0051000 , L0051001 , L0051002 , L0051003 , L0051004 , L0051005 , L0051006 , L0051007 ,
L0051008 , L0051009 , L0051010 , L0051011 , L0051012 , L0051013 , L0051014 , L0051015 ,
L0051016 , L0051017 , L0051018 , L0051019 , L0051020 , L0051021 , L0051022 , L0051023 ,
L0051024 , L0051025 , L0051026 , L0051027 , L0051028 , L0051029 , L0051030 , L0051031 ,
L0051032 , L0051033 , L0051034 , L0051035 , L0051036 , L0051037 , L0051038 , L0051039 ,
L0051040 , L0051041 , L0051042 , L0051043 , L0051044 , L0051045 , L0051046 , L0051047 ,
L0051048 , L0051049 , L0051050 , L0051051 , L0051052 , L0051053 , L0051054 , L0051055 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID   URBAN POP   SOURCE IDs
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L0051056 , L0051057 , L0051058 , L0051059 , L0051060 , L0051061 , L0051062 , L0051063 ,
L0051064 , L0051065 , L0051066 , L0051067 , L0051068 , L0051069 , L0051070 , L0051071 ,
L0051072 , L0051073 , L0051074 , L0051075 , L0051076 , L0051077 , L0051078 , L0051079 ,
L0051080 , L0051081 , L0051082 , L0051083 , L0051084 , L0051085 , L0051086 , L0051087 ,
L0051088 , L0051089 , L0051090 , L0051091 , L0051092 , L0051093 , L0051094 , L0051095 ,
L0051096 , L0051097 , L0051098 , L0051099 , L0051100 , L0051101 , L0051102 , L0051103 ,
L0051104 , L0051105 , L0051106 , L0051107 , L0051108 , L0051109 , L0051110 , L0051111 ,
L0051112 , L0051113 , L0051114 , L0051115 , L0051116 , L0051117 , L0051118 , L0051119 ,
L0051120 , L0051121 , L0051122 , L0051123 , L0051124 , L0051125 , L0051126 , L0051127 ,
L0051128 , L0051129 , L0051130 , L0051131 , L0051132 , L0051133 , L0051134 , L0051135 ,
L0051136 , L0051137 , L0051138 , L0051139 , L0051140 , L0051141 , L0051142 , L0051143 ,
L0051144 , L0051145 , L0051146 , L0051147 , L0051148 , L0051149 , L0051150 , L0051151 ,
L0051152 , L0051153 , L0051154 , L0051155 , L0051156 , L0051157 , L0051158 , L0051159 ,
L0051160 , L0051161 , L0051162 , L0051163 , L0051164 , L0051165 , L0051166 , L0051167 ,
L0051168 , L0051169 , L0051170 , L0051171 , L0051172 , L0051173 , L0051174 , L0051175 ,
L0051176 , L0051177 , L0051178 , L0051179 , L0051180 , L0051181 , L0051182 , L0051183 ,
L0051184 , L0051185 , L0051186 , L0051187 , L0051188 , L0051189 , L0051190 , L0051191 ,
L0051192 , L0051193 , L0051194 , L0051195 , L0051196 , L0051197 , L0051198 , L0051199 ,
L0051200 , L0051201 , L0051202 , L0051203 , L0051204 , L0051205 , L0051206 , L0051207 ,
L0051208 , L0051209 , L0051210 , L0051211 , L0051212 , L0051213 , L0051214 , L0051215 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

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 URBAN ID   URBAN POP                                    SOURCE IDs
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            L0051216    , L0051217    , L0051218    , L0051219    , L0051220    , L0051221    , L0051222    , L0051223    ,
            L0051224    , L0051225    , L0051226    , L0051227    , L0051228    , L0051229    , L0051230    , L0051231    ,
            L0051232    , L0051233    , L0051234    , L0051235    , L0051236    , L0051237    , L0051238    , L0051239    ,
            L0051240    , L0051241    , L0051242    , L0051243    , L0051244    , L0051245    , L0051246    , L0051247    ,
            L0051248    , L0051249    , L0051250    , L0051251    , L0051252    , L0051253    , L0051254    , L0051255    ,
            L0051256    , L0051257    , L0051258    , L0051259    , L0051260    , L0051261    , L0051262    , L0051263    ,
            L0051264    , L0051265    , L0051266    , L0051267    , L0051268    , L0051269    , L0051270    , L0051271    ,
            L0051272    , L0051273    , L0051274    , L0051275    , L0051276    , L0051277    , L0051278    , L0051279    ,
            L0051280    , L0051281    , L0051282    , L0051283    , L0051284    , L0051285    , L0051286    , L0051287    ,
            L0051288    , L0051289    , L0051290    , L0051291    , L0051292    , L0051293    , L0051294    , L0051295    ,
            L0051296    , L0051297    , L0051298    , L0051299    , L0051300    , L0051301    , L0051302    , L0051303    ,
            L0051304    , L0051305    , L0051306    , L0051307    , L0051308    , L0051309    , L0051310    , L0051311    ,
            L0051312    , L0051313    , L0051314    , L0051315    , L0051316    , L0051317    , L0051318    , L0051319    ,
            L0051320    , L0051321    , L0051322    , L0051323    , L0051324    , L0051325    , L0051326    , L0051327    ,
            L0051328    , L0051329    , L0051330    , L0051331    , L0051332    , L0051333    , L0051334    , L0051335    ,
            L0051336    , L0051337    , L0051338    , L0051339    , L0051340    , L0051341    , L0051342    , L0051343    ,
            L0051344    , L0051345    , L0051346    , L0051347    , L0051348    , L0051349    , L0051350    , L0051351    ,
            L0051352    , L0051353    , L0051354    , L0051355    , L0051356    , L0051357    , L0051358    , L0051359    ,
            L0051360    , L0051361    , L0051362    , L0051363    , L0051364    , L0051365    , L0051366    , L0051367    ,
            L0051368    , L0051369    , L0051370    , L0051371    , L0051372    , L0051373    , L0051374    , L0051375    ,

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 1 yr                    ***        05/23/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 1 yr                           ***        16:16:28
                                                                                                            PAGE 132
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0051376 , L0051377 , L0051378 , L0051379 , L0051380 , L0051381 , L0051382 , L0051383 ,
		L0051384 , L0051385 , L0051386 , L0051387 , L0051388 , L0051389 , L0051390 , L0051391 ,
		L0051392 , L0051393 , L0051394 , L0051395 , L0051396 , L0051397 , L0051398 , L0051399 ,
		L0051400 , L0051401 , L0051402 , L0051403 , L0051404 , L0051405 , L0051406 , L0051407 ,
		L0051408 , L0051409 , L0051410 , L0051411 , L0051412 , L0051413 , L0051414 , L0051415 ,
		L0051416 , L0051417 , L0051418 , L0051419 , L0051420 , L0051421 , L0051422 , L0051423 ,
		L0051424 , L0051425 , L0051426 , L0051427 , L0051428 , L0051429 , L0051430 , L0051431 ,
		L0051432 , L0051433 , L0051434 , L0051435 , L0051436 , L0051437 , L0051438 , L0051439 ,
		L0051440 , L0051441 , L0051442 , L0051443 , L0051444 , L0051445 , L0051446 , L0051447 ,
		L0051448 , L0051449 , L0051450 , L0051451 , L0051452 , L0051453 , L0051454 , L0051455 ,
		L0051456 , L0051457 , L0051458 , L0051459 , L0051460 , L0051461 , L0051462 , L0051463 ,
		L0051464 , L0051465 , L0051466 , L0051467 , L0051468 , L0051469 , L0051470 , L0051471 ,
		L0051472 , L0051473 , L0051474 , L0051475 , L0051476 , L0051477 , L0051478 , L0051479 ,
		L0051480 , L0051481 , L0051482 , L0051483 , L0051484 , L0051485 , L0051486 , L0051487 ,
		L0051488 , L0051489 , L0051490 , L0051491 , L0051492 , L0051493 , L0051494 , L0051495 ,
		L0051496 , L0051497 , L0051498 , L0051499 , L0051500 , L0051501 , L0051502 , L0051503 ,
		L0051504 , L0051505 , L0051506 , L0051507 , L0051508 , L0051509 , L0051510 , L0051511 ,
		L0051512 , L0051513 , L0051514 , L0051515 , L0051516 , L0051517 , L0051518 , L0051519 ,
		L0051520 , L0051521 , L0051522 , L0051523 , L0051524 , L0051525 , L0051526 , L0051527 ,
		L0051528 , L0051529 , L0051530 , L0051531 , L0051532 , L0051533 , L0051534 , L0051535 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0051536 , L0051537 , L0051538 , L0051539 , L0051540 , L0051541 , L0051542 , L0051543 ,
		L0051544 , L0051545 , L0051546 , L0051547 , L0051548 , L0051549 , L0051550 , L0051551 ,
		L0051552 , L0051553 , L0051554 , L0051555 , L0051556 , L0051557 , L0051558 , L0051559 ,
		L0051560 , L0051561 , L0051562 , L0051563 , L0051564 , L0051565 , L0051566 , L0051567 ,
		L0051568 , L0051569 , L0051570 , L0051571 , L0051572 , L0051573 , L0051574 , L0051575 ,
		L0051576 , L0051577 , L0051578 , L0051579 , L0051580 , L0051581 , L0051582 , L0051583 ,
		L0051584 , L0051585 , L0051586 , L0051587 , L0051588 , L0051589 , L0051590 , L0051591 ,
		L0051592 , L0051593 , L0051594 , L0051595 , L0051596 , L0051597 , L0051598 , L0051599 ,
		L0051600 , L0051601 , L0051602 , L0051603 , L0051604 , L0051605 , L0051606 , L0051607 ,
		L0051608 , L0051609 , L0051610 , L0051611 , L0051612 , L0051613 , L0051614 , L0051615 ,
		L0051616 , L0051617 , L0051618 , L0051619 , L0051620 , L0051621 , L0051622 , L0051623 ,
		L0051624 , L0051625 , L0051626 , L0051627 , L0051628 , L0051629 , L0051630 , L0051631 ,
		L0051632 , L0051633 , L0051634 , L0051635 , L0051636 , L0051637 , L0051638 , L0051639 ,
		L0051640 , L0051641 , L0051642 , L0051643 , L0051644 , L0051645 , L0051646 , L0051647 ,
		L0051648 , L0051649 , L0051650 , L0051651 , L0051652 , L0051653 , L0051654 , L0051655 ,
		L0051656 , L0051657 , L0051658 , L0051659 , L0051660 , L0051661 , L0051662 , L0051663 ,
		L0051664 , L0051665 , L0051666 , L0051667 , L0051668 , L0051669 , L0051670 , L0051671 ,
		L0051672 , L0051673 , L0051674 , L0051675 , L0051676 , L0051677 , L0051678 , L0051679 ,
		L0051680 , L0051681 , L0051682 , L0051683 , L0051684 , L0051685 , L0051686 , L0051687 ,
		L0051688 , L0051689 , L0051690 , L0051691 , L0051692 , L0051693 , L0051694 , L0051695 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0051696 , L0051697 , L0051698 , L0051699 , L0051700 , L0051701 , L0051702 , L0051703 ,
		L0051704 , L0051705 , L0051706 , L0051707 , L0051708 , L0051709 , L0051710 , L0051711 ,
		L0051712 , L0051713 , L0051714 , L0051715 , L0051716 , L0051717 , L0051718 , L0051719 ,
		L0051720 , L0051721 , L0051722 , L0051723 , L0051724 , L0051725 , L0051726 , L0051727 ,
		L0051728 , L0051729 , L0051730 , L0051731 , L0051732 , L0051733 , L0051734 , L0051735 ,
		L0051736 , L0051737 , L0051738 , L0051739 , L0051740 , L0051741 , L0051742 , L0051743 ,
		L0051744 , L0051745 , L0051746 , L0051747 , L0051748 , L0051749 , L0051750 , L0051751 ,
		L0051752 , L0051753 , L0051754 , L0051755 , L0051756 , L0051757 , L0051758 , L0051759 ,
		L0051760 , L0051761 , L0051762 , L0051763 , L0051764 , L0051765 , L0051766 , L0051767 ,
		L0051768 , L0051769 , L0051770 , L0051771 , L0051772 , L0051773 , L0051774 , L0051775 ,
		L0051776 , L0051777 , L0051778 , L0051779 , L0051780 , L0051781 , L0051782 , L0051783 ,
		L0051784 , L0051785 , L0051786 , L0051787 , L0051788 , L0051789 , L0051790 , L0051791 ,
		L0051792 , L0051793 , L0051794 , L0051795 , L0051796 , L0051797 , L0051798 , L0051799 ,
		L0051800 , L0051801 , L0051802 , L0051803 , L0051804 , L0051805 , L0051806 , L0051807 ,
		L0051808 , L0051809 , L0051810 , L0051811 , L0051812 , L0051813 , L0051814 , L0051815 ,
		L0051816 , L0051817 , L0051818 , L0051819 , L0051820 , L0051821 , L0051822 , L0051823 ,
		L0051824 , L0051825 , L0051826 , L0051827 , L0051828 , L0051829 , L0051830 , L0051831 ,
		L0051832 , L0051833 , L0051834 , L0051835 , L0051836 , L0051837 , L0051838 , L0051839 ,
		L0051840 , L0051841 , L0051842 , L0051843 , L0051844 , L0051845 , L0051846 , L0051847 ,
		L0051848 , L0051849 , L0051850 , L0051851 , L0051852 , L0051853 , L0051854 , L0051855 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0051856 , L0051857 , L0051858 , L0051859 , L0051860 , L0051861 , L0051862 , L0051863 ,
		L0051864 , L0051865 , L0051866 , L0051867 , L0051868 , L0051869 , L0051870 , L0051871 ,
		L0051872 , L0051873 , L0051874 , L0051875 , L0051876 , L0051877 , L0051878 , L0051879 ,
		L0051880 , L0051881 , L0051882 , L0051883 , L0051884 , L0051885 , L0051886 , L0051887 ,
		L0051888 , L0051889 , L0051890 , L0051891 , L0051892 , L0051893 , L0051894 , L0051895 ,
		L0051896 , L0051897 , L0051898 , L0051899 , L0051900 , L0051901 , L0051902 , L0051903 ,
		L0051904 , L0051905 , L0051906 , L0051907 , L0051908 , L0051909 , L0051910 , L0051911 ,
		L0051912 , L0051913 , L0051914 , L0051915 , L0051916 , L0051917 , L0051918 , L0051919 ,
		L0051920 , L0051921 , L0051922 , L0051923 , L0051924 , L0051925 , L0051926 , L0051927 ,
		L0051928 , L0051929 , L0051930 , L0051931 , L0051932 , L0051933 , L0051934 , L0051935 ,
		L0051936 , L0051937 , L0051938 , L0051939 , L0051940 , L0051941 , L0051942 , L0051943 ,
		L0051944 , L0051945 , L0051946 , L0051947 , L0051948 , L0051949 , L0051950 , L0051951 ,
		L0051952 , L0051953 , L0051954 , L0051955 , L0051956 , L0051957 , L0051958 , L0051959 ,
		L0051960 , L0051961 , L0051962 , L0051963 , L0051964 , L0051965 , L0051966 , L0051967 ,
		L0051968 , L0051969 , L0051970 , L0051971 , L0051972 , L0051973 , L0051974 , L0051975 ,
		L0051976 , L0051977 , L0051978 , L0051979 , L0051980 , L0051981 , L0051982 , L0051983 ,
		L0051984 , L0051985 , L0051986 , L0051987 , L0051988 , L0051989 , L0051990 , L0051991 ,
		L0051992 , L0051993 , L0051994 , L0051995 , L0051996 , L0051997 , L0051998 , L0051999 ,
		L0052000 , L0052001 , L0052002 , L0052003 , L0052004 , L0052005 , L0052006 , L0052007 ,
		L0052008 , L0052009 , L0052010 , L0052011 , L0052012 , L0052013 , L0052014 , L0052015 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0052016 , L0052017 , L0052018 , L0052019 , L0052020 , L0052021 , L0052022 , L0052023 ,
		L0052024 , L0052025 , L0052026 , L0052027 , L0052028 , L0052029 , L0052030 , L0052031 ,
		L0052032 , L0052033 , L0052034 , L0052035 , L0052036 , L0052037 , L0052038 , L0052039 ,
		L0052040 , L0052041 , L0052042 , L0052043 , L0052044 , L0052045 , L0052046 , L0052047 ,
		L0052048 , L0052049 , L0052050 , L0052051 , STCK5 , STCK6 , STCK7 , STCK8 ,
		STCK9 , STCK10 , STCK11 , STCK12 , STCK13 , STCK14 , STCK15 , STCK16 ,
		STCK18 , STCK19 , STCK20 , STCK21 , STCK22 , STCK23 , STCK24 , STCK25 ,
		STCK26 , STCK27 , STCK28 , STCK29 , STCK30 , STCK31 , STCK32 , STCK33 ,
		STCK34 , L0052052 , L0052053 , L0052054 , L0052055 , L0052056 , L0052057 , L0052058 ,
		L0052059 , L0052060 , L0052061 , L0052062 , L0052063 , L0052064 , L0052065 , L0052066 ,
		L0052067 , L0052068 , L0052069 , L0052070 , L0052071 , L0052072 , L0052073 , L0052074 ,
		L0052075 , L0052076 , L0052077 , L0052078 , L0052079 , L0052080 , L0052081 , L0052082 ,
		L0052083 , L0052084 , L0052085 , L0052086 , L0052087 , L0052088 , L0052089 , L0052090 ,
		L0052091 , L0052092 , L0052093 , L0052094 , L0052095 , L0052096 , L0052097 , L0052098 ,
		L0052099 , L0052100 , L0052101 , L0052102 , L0052103 , L0052104 , L0052105 , L0052106 ,
		L0052107 , L0052108 , L0052109 , L0052110 , L0052111 , L0052112 , L0052113 , L0052114 ,
		L0052115 , L0052116 , L0052117 , L0052118 , L0052119 , L0052120 , L0052121 , L0052122 ,
		L0052123 , L0052124 , L0052125 , L0052126 , L0052127 , L0052128 , L0052129 , L0052130 ,
		L0052131 , L0052132 , L0052133 , L0052134 , L0052135 , L0052136 , L0052137 , L0052138 ,
		L0052139 , L0052140 , L0052141 , L0052142 , L0052143 , L0052144 , L0052145 , L0052146 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0052147 , L0052148 , L0052149 , L0052150 , L0052151 , L0052152 , L0052153 , L0052154 ,
		L0052155 , L0052156 , L0052157 , L0052158 , L0052159 , L0052160 , L0052161 , L0052162 ,
		L0052163 , L0052164 , L0052165 , L0052166 , L0052167 , L0052168 , L0052169 , L0052170 ,
		L0052171 , L0052172 , L0052173 , L0052174 , L0052175 , L0052176 , L0052177 , L0052178 ,
		L0052179 , L0052180 , L0052181 , L0052182 , L0052183 , L0052184 , L0052185 , L0052186 ,
		L0052187 , L0052188 , L0052189 , L0052190 , L0052191 , L0052192 , L0052193 , L0052194 ,
		L0052195 , L0052196 , L0052197 , L0052198 , L0052199 , L0052200 , L0052201 , L0052202 ,
		L0052203 , L0052204 , L0052205 , L0052206 , L0052207 , L0052208 , L0052209 , L0052210 ,
		L0052211 , L0052212 , L0052213 , L0052214 , L0052215 , L0052216 , L0052217 , L0052218 ,
		L0052219 , L0052220 , L0052221 , L0052222 , L0052223 , L0052224 , L0052225 , L0052226 ,
		L0052227 , L0052228 , L0052229 , L0052230 , L0052231 , L0052232 , L0052233 , L0052234 ,
		L0052235 , L0052236 , L0052237 , L0052238 , L0052239 , L0052240 , L0052241 , L0052242 ,
		L0052243 , L0052244 , L0052245 , L0052246 , L0052247 , L0052248 , L0052249 , L0052250 ,
		L0052251 , L0052252 , L0052253 , L0052254 , L0052255 , L0052256 , L0052257 , L0052258 ,
		L0052259 , L0052260 , L0052261 , L0052262 , L0052263 , L0052264 , L0052265 , L0052266 ,
		L0052267 , L0052268 , L0052269 , L0052270 , L0052271 , L0052272 , L0052273 , L0052274 ,
		L0052275 , L0052276 , L0052277 , L0052278 , L0052279 , L0052280 , L0052281 , L0052282 ,
		L0052283 , L0052284 , L0052285 , L0052286 , L0052287 , L0052288 , L0052289 , L0052290 ,
		L0052291 , L0052292 , L0052293 , L0052294 , L0052295 , L0052296 , L0052297 , L0052298 ,
		L0052299 , L0052300 , L0052301 , L0052302 , L0052303 , L0052304 , L0052305 , L0052306 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
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		L0052315 , L0052316 , L0052317 , L0052318 , L0052319 , L0052320 , L0052321 , L0052322 ,
		L0052323 , L0052324 , L0052325 , L0052326 , L0052327 , L0052328 , L0052329 , L0052330 ,
		L0052331 , L0052332 , L0052333 , L0052334 , L0052335 , L0052336 , L0052337 , L0052338 ,
		L0052339 , L0052340 , L0052341 , L0052342 , L0052343 , L0052344 , L0052345 , L0052346 ,
		L0052347 , L0052348 , L0052349 , L0052350 , L0052351 , L0052352 , L0052353 , L0052354 ,
		L0052355 , L0052356 , L0052357 , L0052358 , L0052359 , L0052360 , L0052361 , L0052362 ,
		L0052363 , L0052364 , L0052365 , L0052366 , L0052367 , L0052368 , L0052369 , L0052370 ,
		L0052371 , L0052372 , L0052373 , L0052374 , L0052375 , L0052376 , L0052377 , L0052378 ,
		L0052379 , L0052380 , L0052381 , L0052382 , L0052383 , L0052384 , L0052385 , L0052386 ,
		L0052387 , L0052388 , L0052389 , L0052390 , L0052391 , L0052392 , L0052393 , L0052394 ,
		L0052395 , L0052396 , L0052397 , L0052398 , L0052399 , L0052400 , L0052401 , L0052402 ,
		L0052403 , L0052404 , L0052405 , L0052406 , L0052407 , L0052408 , L0052409 , L0052410 ,
		L0052411 , L0052412 , L0052413 , L0052414 , L0052415 , L0052416 , L0052417 , L0052418 ,
		L0052419 , L0052420 , L0052421 , L0052422 , L0052423 , L0052424 , L0052425 , L0052426 ,
		L0052427 , L0052428 , L0052429 , L0052430 , L0052431 , L0052432 , L0052433 , L0052434 ,
		L0052435 , L0052436 , L0052437 , L0052438 , L0052439 , L0052440 , L0052441 , L0052442 ,
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		L0052451 , L0052452 , L0052453 , L0052454 , L0052455 , L0052456 , L0052457 , L0052458 ,
		L0052459 , L0052460 , L0052461 , L0052462 , L0052463 , L0052464 , L0052465 , L0052466 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
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		L0052483 , L0052484 , L0052485 , L0052486 , L0052487 , L0052488 , L0052489 , L0052490 ,
		L0052491 , L0052492 , L0052493 , L0052494 , L0052495 , L0052496 , L0052497 , L0052498 ,
		L0052499 , L0052500 , L0052501 , L0052502 , L0052503 , L0052504 , L0052505 , L0052506 ,
		L0052507 , L0052508 , L0052509 , L0052510 , L0052511 , L0052512 , L0052513 , L0052514 ,
		L0052515 , L0052516 , L0052517 , L0052518 , L0052519 , L0052520 , L0052521 , L0052522 ,
		L0052523 , L0052524 , L0052525 , L0052526 , L0052527 , L0052528 , L0052529 , L0052530 ,
		L0052531 , L0052532 , L0052533 , L0052534 , L0052535 , L0052536 , L0052537 , L0052538 ,
		L0052539 , L0052540 , L0052541 , L0052542 , L0052543 , L0052544 , L0052545 , L0052546 ,
		L0052547 , L0052548 , L0052549 , L0052550 , L0052551 , L0052552 , L0052553 , L0052554 ,
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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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L0052995 , L0052996 , L0052997 , L0052998 , L0052999 , L0053000 , L0053001 , L0053002 ,

L0053003 , L0053004 , L0053005 , L0053006 , L0053007 , L0053008 , L0053009 , L0053010 ,

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0053107 , L0053108 , L0053109 , L0053110 , L0053111 , L0053112 , L0053113 , L0053114 ,

L0053115 , L0053116 , L0053117 , L0053118 , L0053119 , L0053120 , L0053121 , L0053122 ,

L0053123 , L0053124 , L0053125 , L0053126 , L0053127 , L0053128 , L0053129 , L0053130 ,

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L0053139 , L0053140 , L0053141 , L0053142 , L0053143 , L0053144 , L0053145 , L0053146 ,

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L0053155 , L0053156 , L0053157 , L0053158 , L0053159 , L0053160 , L0053161 , L0053162 ,

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0053267 , L0053268 , L0053269 , L0053270 , L0053271 , L0053272 , L0053273 , L0053274 ,

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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L0053715 , L0053716 , L0053717 , L0053718 , L0053719 , L0053720 , L0053721 , L0053722 ,

L0053723 , L0053724 , L0053725 , L0053726 , L0053727 , L0053728 , L0053729 , L0053730 ,

L0053731 , L0053732 , L0053733 , L0053734 , L0053735 , L0053736 , L0053737 , L0053738 ,

L0053739 , L0053740 , L0053741 , L0053742 , L0053743 , L0053744 , L0053745 , L0053746 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0053747 , L0053748 , L0053749 , L0053750 , L0053751 , L0053752 , L0053753 , L0053754 ,

L0053755 , L0053756 , L0053757 , L0053758 , L0053759 , L0053760 , L0053761 , L0053762 ,

L0053763 , L0053764 , L0053765 , L0053766 , L0053767 , L0053768 , L0053769 , L0053770 ,

L0053771 , L0053772 , L0053773 , L0053774 , L0053775 , L0053776 , L0053777 , L0053778 ,

L0053779 , L0053780 , L0053781 , L0053782 , L0053783 , L0053784 , L0053785 , L0053786 ,

L0053787 , L0053788 , L0053789 , L0053790 , L0053791 , L0053792 , L0053793 , L0053794 ,

L0053795 , L0053796 , L0053797 , L0053798 , L0053799 , L0053800 , L0053801 , L0053802 ,

L0053803 , L0053804 , L0053805 , L0053806 , L0053807 , L0053808 , L0053809 , L0053810 ,

L0053811 , L0053812 , L0053813 , L0053814 , L0053815 , L0053816 , L0053817 , L0053818 ,

L0053819 , L0053820 , L0053821 , L0053822 , L0053823 , L0053824 , L0053825 , L0053826 ,

L0053827 , L0053828 , L0053829 , L0053830 , L0053831 , L0053832 , L0053833 , L0053834 ,

L0053835 , L0053836 , L0053837 , L0053838 , L0053839 , L0053840 , L0053841 , L0053842 ,

L0053843 , L0053844 , L0053845 , L0053846 , L0053847 , L0053848 , L0053849 , L0053850 ,

L0053851 , L0053852 , L0053853 , L0053854 , L0053855 , L0053856 , L0053857 , L0053858 ,

L0053859 , L0053860 , L0053861 , L0053862 , L0053863 , L0053864 , L0053865 , L0053866 ,

L0053867 , L0053868 , L0053869 , L0053870 , L0053871 , L0053872 , L0053873 , L0053874 ,

L0053875 , L0053876 , L0053877 , L0053878 , L0053879 , L0053880 , L0053881 , L0053882 ,

L0053883 , L0053884 , L0053885 , L0053886 , L0053887 , L0053888 , L0053889 , L0053890 ,

L0053891 , L0053892 , L0053893 , L0053894 , L0053895 , L0053896 , L0053897 , L0053898 ,

L0053899 , L0053900 , L0053901 , L0053902 , L0053903 , L0053904 , L0053905 , L0053906 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0053907 , L0053908 , L0053909 , L0053910 , L0053911 , L0053912 , L0053913 , L0053914 ,

L0053915 , L0053916 , L0053917 , L0053918 , L0053919 , L0053920 , L0053921 , L0053922 ,

L0053923 , L0053924 , L0053925 , L0053926 , L0053927 , L0053928 , L0053929 , L0053930 ,

L0053931 , L0053932 , L0053933 , L0053934 , L0053935 , L0053936 , L0053937 , L0053938 ,

L0053939 , L0053940 , L0053941 , L0053942 , L0053943 , L0053944 , L0053945 , L0053946 ,

L0053947 , L0053948 , L0053949 , L0053950 , L0053951 , L0053952 , L0053953 , L0053954 ,

L0053955 , L0053956 , L0053957 , L0053958 , L0053959 , L0053960 , L0053961 , L0053962 ,

L0053963 , L0053964 , L0053965 , L0053966 , L0053967 , L0053968 , L0053969 , L0053970 ,

L0053971 , L0053972 , L0053973 , L0053974 , L0053975 , L0053976 , L0053977 , L0053978 ,

L0053979 , L0053980 , L0053981 , L0053982 , L0053983 , L0053984 , L0053985 , L0053986 ,

L0053987 , L0053988 , L0053989 , L0053990 , L0053991 , L0053992 , L0053993 , L0053994 ,

L0053995 , L0053996 , L0053997 , L0053998 , L0053999 , L0054000 , L0054001 , L0054002 ,

L0054003 , L0054004 , L0054005 , L0054006 , L0054007 , L0054008 , L0054009 , L0054010 ,

L0054011 , L0054012 , L0054013 , L0054014 , L0054015 , L0054016 , L0054017 , L0054018 ,

L0054019 , L0054020 , L0054021 , L0054022 , L0054023 , L0054024 , L0054025 , L0054026 ,

L0054027 , L0054028 , L0054029 , L0054030 , L0054031 , L0054032 , L0054033 , L0054034 ,

L0054035 , L0054036 , L0054037 , L0054038 , L0054039 , L0054040 , L0054041 , L0054042 ,

L0054043 , L0054044 , L0054045 , L0054046 , L0054047 , L0054048 , L0054049 , L0054050 ,

L0054051 , L0054052 , L0054053 , L0054054 , L0054055 , L0054056 , L0054057 , L0054058 ,

L0054059 , L0054060 , L0054061 , L0054062 , L0054063 , L0054064 , L0054065 , L0054066 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0054067 , L0054068 , L0054069 , L0054070 , L0054071 , L0054072 , L0054073 , L0054074 ,

L0054075 , L0054076 , L0054077 , L0054078 , L0054079 , L0054080 , L0054081 , L0054082 ,

L0054083 , L0054084 , L0054085 , L0054086 , L0054087 , L0054088 , L0054089 , L0054090 ,

L0054091 , L0054092 , L0054093 , L0054094 , L0054095 , L0054096 , L0054097 , L0054098 ,

L0054099 , L0054100 , L0054101 , L0054102 , L0054103 , L0054104 , L0054105 , L0054106 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK1

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	142.7,	83.5,	-3.6,	-26.8,	2	9.1,	146.8,	103.3,	-9.4,	-19.7,
3	9.1,	146.5,	119.9,	-15.0,	-11.9,	4	9.1,	141.6,	132.9,	-20.1,	-3.9,
5	9.1,	132.5,	141.9,	-24.6,	4.3,	6	9.1,	119.3,	146.5,	-28.3,	12.4,
7	9.1,	102.6,	146.7,	-31.2,	20.1,	8	9.1,	82.7,	142.5,	-33.1,	27.2,
9	9.1,	61.2,	134.3,	-34.1,	33.0,	10	9.1,	83.5,	142.7,	-44.6,	38.2,
11	9.1,	103.3,	146.8,	-53.8,	42.2,	12	9.1,	119.9,	146.5,	-61.3,	45.0,
13	9.1,	132.9,	141.6,	-67.0,	46.4,	14	9.1,	141.9,	132.5,	-70.6,	46.4,
15	9.1,	146.5,	119.3,	-72.1,	44.9,	16	9.1,	146.7,	102.6,	-71.4,	42.1,

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  17    9.1,  142.5,   82.7,  -68.5,   38.1,     18    9.1,  134.3,   61.2,  -63.6,   33.1,
  19    9.1,  142.7,   83.5,  -79.9,   26.8,     20    9.1,  146.8,  103.3,  -93.9,   19.7,
  21    9.1,  146.5,  119.9, -104.9,   11.9,     22    9.1,  141.6,  132.9, -112.8,    3.9,
  23    9.1,  132.5,  141.9, -117.3,   -4.3,     24    9.1,  119.3,  146.5, -118.2,  -12.4,
  25    9.1,  102.6,  146.7, -115.5,  -20.1,     26    9.1,   82.7,  142.5, -109.3,  -27.2,
  27    9.1,   61.2,  134.3, -100.2,  -33.0,     28    9.1,   83.5,  142.7,  -98.1,  -38.2,
  29    9.1,  103.3,  146.8,  -93.1,  -42.2,     30    9.1,  119.9,  146.5,  -85.2,  -45.0,
  31    9.1,  132.9,  141.6,  -74.7,  -46.4,     32    9.1,  141.9,  132.5,  -61.9,  -46.4,
  33    9.1,  146.5,  119.3,  -47.3,  -44.9,     34    9.1,  146.7,  102.6,  -31.2,  -42.1,
  35    9.1,  142.5,   82.7,  -14.2,  -38.1,     36    9.1,  134.3,   61.2,    2.4,  -33.1,


SOURCE ID: STCK2
 IFV    BH      BW      BL     XADJ    YADJ      IFV    BH      BW      BL     XADJ    YADJ
   1    9.1,   46.0,   67.3,  -32.5,   21.5,      2    9.1,   55.1,   71.0,  -38.2,   21.3,
   3    9.1,   62.6,   72.5,  -42.7,   20.4,      4    9.1,   68.2,   71.8,  -45.9,   18.9,
   5    9.1,   71.8,   68.9,  -47.8,   16.8,      6    9.1,   73.1,   63.9,  -48.1,   14.2,
   7    9.1,   72.2,   57.0,  -47.0,   11.2,      8    9.1,   69.1,   48.3,  -44.5,    7.9,
   9    9.1,   63.9,   38.2,  -40.6,    4.3,     10    9.1,   67.3,   46.0,  -44.5,    1.1,
  11    9.1,   71.0,   55.1,  -48.8,   -2.7,     12    9.1,   72.5,   62.6,  -51.7,   -6.5,
  13    9.1,   71.8,   68.2,  -53.0,  -10.1,     14    9.1,   68.9,   71.8,  -52.7,  -13.3,
  15    9.1,   63.9,   73.1,  -50.8,  -16.2,     16    9.1,   57.0,   72.2,  -47.3,  -18.6,
  17    9.1,   48.3,   69.1,  -42.4,  -20.4,     18    9.1,   38.2,   63.9,  -36.2,  -21.5,
  19    9.1,   46.0,   67.3,  -34.8,  -21.5,     20    9.1,   55.1,   71.0,  -32.8,  -21.3,
  21    9.1,   62.6,   72.5,  -29.8,  -20.4,     22    9.1,   68.2,   71.8,  -25.8,  -18.9,
  23    9.1,   71.8,   68.9,  -21.1,  -16.8,     24    9.1,   73.1,   63.9,  -15.8,  -14.2,
  25    9.1,   72.2,   57.0,   -9.9,  -11.2,     26    9.1,   69.1,   48.3,   -3.8,   -7.9,
  27    9.1,   63.9,   38.2,    2.4,   -4.3,     28    9.1,   67.3,   46.0,   -1.5,   -1.1,
  29    9.1,   71.0,   55.1,   -6.3,    2.7,     30    9.1,   72.5,   62.6,  -10.9,    6.5,
  31    9.1,   71.8,   68.2,  -15.2,   10.1,     32    9.1,   68.9,   71.8,  -19.1,   13.3,
  33    9.1,   63.9,   73.1,  -22.3,   16.2,     34    9.1,   57.0,   72.2,  -24.9,   18.6,
  35    9.1,   48.3,   69.1,  -26.7,   20.4,     36    9.1,   38.2,   63.9,  -27.7,   21.5,


SOURCE ID: STCK3
 IFV    BH      BW      BL     XADJ    YADJ      IFV    BH      BW      BL     XADJ    YADJ
   1    9.1,   74.7,   54.0,  -53.7,   -6.4,      2    9.1,   78.7,   63.6,  -56.9,  -10.9,
   3    9.1,   80.4,   71.2,  -58.4,  -15.1,      4    9.1,  150.5,  143.5,   10.8,   15.8,
   5    9.1,  142.5,  151.6,    2.7,   29.8,      6    9.1,  130.2,  155.1,   -5.4,   42.8,
   7    9.1,  113.9,  153.8,  -13.4,   54.6,      8    9.1,   53.6,   74.7,  -40.4,  -27.1,
   9    0.0,    0.0,    0.0,    0.0,    0.0,     10    9.1,   54.0,   74.7,  -30.9,  -26.7,
  11    9.1,   63.6,   78.7,  -28.4,  -25.2,     12    9.1,   71.2,   80.4,  -25.1,  -22.9,
  13    9.1,   76.7,   79.6,  -21.0,  -19.9,     14    9.1,  151.6,  142.5, -101.0,   78.5,
  15    9.1,  155.1,  130.2, -107.9,   72.1,     16    9.1,  153.8,  113.9, -111.6,   63.5,
  17    9.1,  147.9,   94.2, -111.8,   53.0,     18    9.1,  137.5,   72.4, -109.5,   40.8,
  19    9.1,  146.8,   94.8, -126.9,   27.3,     20    9.1,  152.7,  114.7, -140.4,   13.2,
  21    9.1,  153.9,  131.1, -149.6,   -1.3,     22    9.1,  150.5,  143.5, -154.3,  -15.8,
  23    9.1,  142.5,  151.6, -154.3,  -29.8,     24    9.1,  130.2,  155.1, -149.7,  -42.8,
  25    9.1,  113.9,  153.8, -140.4,  -54.6,     26    9.1,   53.6,   74.7,  -34.3,   27.1,
  27    0.0,    0.0,    0.0,    0.0,    0.0,     28    9.1,   54.0,   74.7,  -43.7,   26.7,
  29    9.1,   63.6,   78.7,  -50.3,   25.2,     30    9.1,   71.2,   80.4,  -55.3,   22.9,
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31	9.1,	76.7,	79.6,	-58.6,	19.9,	32	9.1,	151.6,	142.5,	-41.5,	-78.5,
33	9.1,	155.1,	130.2,	-22.3,	-72.1,	34	9.1,	153.8,	113.9,	-2.3,	-63.5,
35	9.1,	147.9,	94.2,	17.7,	-53.0,	36	9.1,	68.3,	42.8,	-48.8,	-1.7,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	146.8,	94.8,	16.8,	59.6,	2	9.1,	152.7,	114.7,	-4.5,	69.7,
3	9.1,	153.9,	131.1,	-25.6,	77.7,	4	9.1,	83.6,	79.5,	-59.4,	-19.5,
5	9.1,	80.2,	83.1,	-57.5,	-22.7,	6	9.1,	74.3,	84.1,	-53.8,	-25.1,
7	9.1,	66.1,	82.6,	-48.5,	-26.7,	8	9.1,	56.0,	78.6,	-41.8,	-27.6,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	55.1,	78.8,	-32.3,	-26.8,
11	9.1,	114.7,	152.7,	-146.0,	52.9,	12	9.1,	131.1,	153.9,	-154.7,	40.0,
13	9.1,	143.5,	150.5,	-158.6,	25.9,	14	9.1,	151.6,	142.5,	-157.7,	10.9,
15	9.1,	155.1,	130.2,	-152.1,	-4.3,	16	9.1,	153.8,	113.9,	-141.8,	-19.4,
17	9.1,	147.9,	94.2,	-127.2,	-33.9,	18	9.1,	137.5,	72.4,	-109.5,	-47.4,
19	9.1,	146.8,	94.8,	-111.5,	-59.6,	20	9.1,	152.7,	114.7,	-110.2,	-69.7,
21	9.1,	153.9,	131.1,	-105.5,	-77.7,	22	9.1,	83.6,	79.5,	-20.1,	19.5,
23	9.1,	80.2,	83.1,	-25.6,	22.7,	24	9.1,	74.3,	84.1,	-30.3,	25.1,
25	9.1,	66.1,	82.6,	-34.1,	26.7,	26	9.1,	56.0,	78.6,	-36.8,	27.6,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	55.1,	78.8,	-46.5,	26.8,
29	9.1,	114.7,	152.7,	-6.6,	-52.9,	30	9.1,	131.1,	153.9,	0.8,	-40.0,
31	9.1,	143.5,	150.5,	8.1,	-25.9,	32	9.1,	151.6,	142.5,	15.2,	-10.9,
33	9.1,	84.1,	74.3,	-62.2,	11.8,	34	9.1,	82.6,	66.1,	-59.8,	7.2,
35	9.1,	78.6,	56.0,	-55.6,	2.5,	36	9.1,	72.2,	44.1,	-49.6,	-2.3,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK5

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	142.7,	83.5,	-13.4,	31.6,	2	9.1,	146.8,	103.3,	-29.2,	36.2,
3	9.1,	146.5,	119.9,	-44.2,	39.6,	4	9.1,	141.6,	132.9,	-57.8,	41.8,
5	9.1,	132.5,	141.9,	-69.6,	42.8,	6	9.1,	119.3,	146.5,	-79.4,	42.4,
7	9.1,	102.6,	146.7,	-86.7,	40.8,	8	9.1,	82.7,	142.5,	-91.4,	37.9,
9	9.1,	61.2,	134.3,	-93.3,	33.5,	10	9.1,	83.5,	142.7,	-103.0,	28.4,
11	9.1,	103.3,	146.8,	-109.6,	22.4,	12	9.1,	119.9,	146.5,	-112.8,	15.8,
13	9.1,	132.9,	141.6,	-112.6,	8.7,	14	9.1,	141.9,	132.5,	-109.0,	1.3,
15	9.1,	146.5,	119.3,	-102.1,	-6.1,	16	9.1,	146.7,	102.6,	-92.1,	-13.4,
17	9.1,	142.5,	82.7,	-79.3,	-20.2,	18	9.1,	134.3,	61.2,	-64.0,	-26.2,
19	9.1,	142.7,	83.5,	-70.1,	-31.6,	20	9.1,	146.8,	103.3,	-74.1,	-36.2,
21	9.1,	146.5,	119.9,	-75.7,	-39.6,	22	9.1,	141.6,	132.9,	-75.1,	-41.8,
23	9.1,	132.5,	141.9,	-72.2,	-42.8,	24	9.1,	119.3,	146.5,	-67.1,	-42.4,
25	9.1,	102.6,	146.7,	-60.0,	-40.8,	26	9.1,	82.7,	142.5,	-51.1,	-37.9,
27	9.1,	61.2,	134.3,	-41.0,	-33.5,	28	9.1,	83.5,	142.7,	-39.7,	-28.4,

29	9.1,	103.3,	146.8,	-37.2,	-22.4,	30	9.1,	119.9,	146.5,	-33.6,	-15.8,
31	9.1,	132.9,	141.6,	-29.0,	-8.7,	32	9.1,	141.9,	132.5,	-23.5,	-1.3,
33	9.1,	146.5,	119.3,	-17.2,	6.1,	34	9.1,	146.7,	102.6,	-10.5,	13.4,
35	9.1,	142.5,	82.7,	-3.4,	20.2,	36	9.1,	134.3,	61.2,	2.9,	26.2,

SOURCE ID: STCK6

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	145.1,	85.7,	-3.0,	-22.9,	2	9.1,	149.4,	105.4,	-9.6,	-15.9,
3	9.1,	149.2,	121.9,	-15.9,	-8.3,	4	9.1,	144.5,	134.8,	-21.8,	-0.5,
5	9.1,	135.3,	143.5,	-26.9,	7.4,	6	9.1,	122.1,	147.9,	-31.3,	15.0,
7	9.1,	105.1,	147.8,	-34.7,	22.2,	8	9.1,	85.0,	143.2,	-37.1,	28.7,
9	9.1,	63.9,	136.4,	-38.8,	35.1,	10	9.1,	85.7,	145.1,	-49.6,	39.8,
11	9.1,	105.4,	149.4,	-58.9,	43.1,	12	9.1,	121.9,	149.2,	-66.3,	45.0,
13	9.1,	134.8,	144.5,	-71.8,	45.6,	14	9.1,	143.5,	135.3,	-75.1,	44.8,
15	9.1,	147.9,	122.1,	-76.1,	42.6,	16	9.1,	147.8,	105.1,	-74.8,	39.2,
17	9.1,	143.2,	85.0,	-71.2,	34.5,	18	9.1,	136.4,	63.9,	-67.0,	29.4,
19	9.1,	145.1,	85.7,	-82.7,	22.9,	20	9.1,	149.4,	105.4,	-95.8,	15.9,
21	9.1,	149.2,	121.9,	-106.0,	8.3,	22	9.1,	144.5,	134.8,	-113.0,	0.5,
23	9.1,	135.3,	143.5,	-116.6,	-7.4,	24	9.1,	122.1,	147.9,	-116.6,	-15.0,
25	9.1,	105.1,	147.8,	-113.1,	-22.2,	26	9.1,	85.0,	143.2,	-106.1,	-28.7,
27	9.1,	63.9,	136.4,	-97.5,	-35.1,	28	9.1,	85.7,	145.1,	-95.5,	-39.8,
29	9.1,	105.4,	149.4,	-90.6,	-43.1,	30	9.1,	121.9,	149.2,	-82.9,	-45.0,
31	9.1,	134.8,	144.5,	-72.7,	-45.6,	32	9.1,	143.5,	135.3,	-60.3,	-44.8,
33	9.1,	147.9,	122.1,	-46.0,	-42.6,	34	9.1,	147.8,	105.1,	-30.4,	-39.2,
35	9.1,	143.2,	85.0,	-13.8,	-34.5,	36	9.1,	136.4,	63.9,	3.2,	-29.4,

SOURCE ID: STCK7

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	145.1,	85.7,	-13.2,	36.7,	2	9.1,	149.4,	105.4,	-30.1,	41.1,
3	9.1,	149.2,	121.9,	-46.0,	44.3,	4	9.1,	144.5,	134.8,	-60.5,	46.1,
5	9.1,	135.3,	143.5,	-73.1,	46.5,	6	9.1,	122.1,	147.9,	-83.6,	45.5,
7	9.1,	105.1,	147.8,	-91.5,	43.1,	8	9.1,	85.0,	143.2,	-96.6,	39.4,
9	9.1,	63.9,	136.4,	-99.3,	35.4,	10	9.1,	85.7,	145.1,	-109.2,	29.6,
11	9.1,	105.4,	149.4,	-115.8,	22.7,	12	9.1,	121.9,	149.2,	-118.9,	15.0,
13	9.1,	134.8,	144.5,	-118.3,	6.9,	14	9.1,	143.5,	135.3,	-114.2,	-1.4,
15	9.1,	147.9,	122.1,	-106.6,	-9.6,	16	9.1,	147.8,	105.1,	-95.7,	-17.6,
17	9.1,	143.2,	85.0,	-81.9,	-25.0,	18	9.1,	136.4,	63.9,	-67.3,	-31.2,
19	9.1,	145.1,	85.7,	-72.4,	-36.7,	20	9.1,	149.4,	105.4,	-75.3,	-41.1,
21	9.1,	149.2,	121.9,	-76.0,	-44.3,	22	9.1,	144.5,	134.8,	-74.3,	-46.1,
23	9.1,	135.3,	143.5,	-70.4,	-46.5,	24	9.1,	122.1,	147.9,	-64.3,	-45.5,
25	9.1,	105.1,	147.8,	-56.3,	-43.1,	26	9.1,	85.0,	143.2,	-46.5,	-39.4,
27	9.1,	63.9,	136.4,	-37.0,	-35.4,	28	9.1,	85.7,	145.1,	-35.9,	-29.6,
29	9.1,	105.4,	149.4,	-33.6,	-22.7,	30	9.1,	121.9,	149.2,	-30.3,	-15.0,
31	9.1,	134.8,	144.5,	-26.2,	-6.9,	32	9.1,	143.5,	135.3,	-21.2,	1.4,
33	9.1,	147.9,	122.1,	-15.5,	9.6,	34	9.1,	147.8,	105.1,	-9.4,	17.6,
35	9.1,	143.2,	85.0,	-3.0,	25.0,	36	9.1,	136.4,	63.9,	3.4,	31.2,

SOURCE ID: STCK8

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	44.9,	68.0,	-36.7,	20.3,	2	9.1,	53.9,	70.9,	-41.7,	19.5,
3	9.1,	61.3,	71.8,	-45.4,	18.2,	4	9.1,	66.8,	70.4,	-47.7,	16.2,
5	9.1,	70.2,	66.9,	-48.6,	13.8,	6	9.1,	71.6,	61.4,	-48.0,	11.0,
7	9.1,	70.7,	54.0,	-45.9,	7.9,	8	9.1,	67.7,	45.0,	-42.5,	4.5,
9	9.1,	62.9,	34.6,	-37.7,	0.8,	10	9.1,	68.0,	44.9,	-42.7,	-2.7,
11	9.1,	70.9,	53.9,	-46.5,	-6.2,	12	9.1,	71.8,	61.3,	-48.8,	-9.5,
13	9.1,	70.4,	66.8,	-49.6,	-12.5,	14	9.1,	66.9,	70.2,	-49.0,	-15.1,
15	9.1,	61.4,	71.6,	-46.8,	-17.3,	16	9.1,	54.0,	70.7,	-43.2,	-18.9,
17	9.1,	45.0,	67.7,	-38.3,	-20.0,	18	9.1,	34.6,	62.9,	-32.3,	-20.4,
19	9.1,	44.9,	68.0,	-31.2,	-20.3,	20	9.1,	53.9,	70.9,	-29.2,	-19.5,
21	9.1,	61.3,	71.8,	-26.4,	-18.2,	22	9.1,	66.8,	70.4,	-22.7,	-16.2,
23	9.1,	70.2,	66.9,	-18.4,	-13.8,	24	9.1,	71.6,	61.4,	-13.4,	-11.0,
25	9.1,	70.7,	54.0,	-8.1,	-7.9,	26	9.1,	67.7,	45.0,	-2.5,	-4.5,
27	9.1,	62.9,	34.6,	3.1,	-0.8,	28	9.1,	68.0,	44.9,	-2.2,	2.7,
29	9.1,	70.9,	53.9,	-7.5,	6.2,	30	9.1,	71.8,	61.3,	-12.5,	9.5,
31	9.1,	70.4,	66.8,	-17.1,	12.5,	32	9.1,	66.9,	70.2,	-21.3,	15.1,
33	9.1,	61.4,	71.6,	-24.8,	17.3,	34	9.1,	54.0,	70.7,	-27.5,	18.9,
35	9.1,	45.0,	67.7,	-29.4,	20.0,	36	9.1,	34.6,	62.9,	-30.6,	20.4,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK9

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	145.4,	85.7,	-1.2,	-26.4,	2	9.1,	149.7,	105.7,	-7.3,	-18.7,
3	9.1,	149.6,	122.5,	-13.1,	-10.5,	4	9.1,	144.8,	135.6,	-18.6,	-2.0,
5	9.1,	135.7,	144.5,	-23.5,	6.6,	6	9.1,	122.4,	149.0,	-27.7,	15.0,
7	9.1,	105.4,	149.0,	-31.0,	22.9,	8	9.1,	85.3,	144.5,	-33.4,	30.2,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	85.7,	145.4,	-46.3,	41.7,
11	9.1,	105.7,	149.7,	-56.2,	45.6,	12	9.1,	122.5,	149.6,	-64.3,	48.1,
13	9.1,	135.6,	144.8,	-70.4,	49.2,	14	9.1,	144.5,	135.7,	-74.5,	48.8,
15	9.1,	149.0,	122.4,	-76.2,	46.9,	16	9.1,	149.0,	105.4,	-75.7,	43.5,
17	9.1,	144.5,	85.3,	-72.8,	38.9,	18	9.1,	136.6,	63.5,	-68.1,	33.2,
19	9.1,	145.4,	85.7,	-84.6,	26.4,	20	9.1,	149.7,	105.7,	-98.5,	18.7,
21	9.1,	149.6,	122.5,	-109.4,	10.5,	22	9.1,	144.8,	135.6,	-117.0,	2.0,
23	9.1,	135.7,	144.5,	-121.0,	-6.6,	24	9.1,	122.4,	149.0,	-121.4,	-15.0,
25	9.1,	105.4,	149.0,	-118.0,	-22.9,	26	9.1,	85.3,	144.5,	-111.1,	-30.2,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	85.7,	145.4,	-99.0,	-41.7,
29	9.1,	105.7,	149.7,	-93.6,	-45.6,	30	9.1,	122.5,	149.6,	-85.3,	-48.1,
31	9.1,	135.6,	144.8,	-74.4,	-49.2,	32	9.1,	144.5,	135.7,	-61.2,	-48.8,
33	9.1,	149.0,	122.4,	-46.2,	-46.9,	34	9.1,	149.0,	105.4,	-29.8,	-43.5,
35	9.1,	144.5,	85.3,	-12.5,	-38.9,	36	9.1,	136.6,	63.5,	4.6,	-33.2,

SOURCE ID: STCK10

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	145.4,	85.7,	-12.6,	29.9,	2	9.1,	149.7,	105.7,	-28.3,	34.7,
3	9.1,	149.6,	122.5,	-43.1,	38.5,	4	9.1,	144.8,	135.6,	-56.6,	41.0,
5	9.1,	135.7,	144.5,	-68.4,	42.4,	6	9.1,	122.4,	149.0,	-78.1,	42.4,
7	9.1,	105.4,	149.0,	-85.5,	41.2,	8	9.1,	85.3,	144.5,	-90.2,	38.7,
9	9.1,	63.5,	136.6,	-92.5,	34.8,	10	9.1,	85.7,	145.4,	-102.6,	30.2,
11	9.1,	105.7,	149.7,	-109.6,	24.5,	12	9.1,	122.5,	149.6,	-113.2,	18.1,
13	9.1,	135.6,	144.8,	-113.5,	11.1,	14	9.1,	144.5,	135.7,	-110.2,	3.8,
15	9.1,	149.0,	122.4,	-103.6,	-3.6,	16	9.1,	149.0,	105.4,	-93.9,	-11.0,
17	9.1,	144.5,	85.3,	-81.3,	-17.9,	18	9.1,	136.6,	63.5,	-66.6,	-24.2,
19	9.1,	145.4,	85.7,	-73.1,	-29.9,	20	9.1,	149.7,	105.7,	-77.4,	-34.7,
21	9.1,	149.6,	122.5,	-79.4,	-38.5,	22	9.1,	144.8,	135.6,	-78.9,	-41.0,
23	9.1,	135.7,	144.5,	-76.0,	-42.4,	24	9.1,	122.4,	149.0,	-70.9,	-42.4,
25	9.1,	105.4,	149.0,	-63.6,	-41.2,	26	9.1,	85.3,	144.5,	-54.3,	-38.7,
27	9.1,	63.5,	136.6,	-44.1,	-34.8,	28	9.1,	85.7,	145.4,	-42.8,	-30.2,
29	9.1,	105.7,	149.7,	-40.1,	-24.5,	30	9.1,	122.5,	149.6,	-36.3,	-18.1,
31	9.1,	135.6,	144.8,	-31.4,	-11.1,	32	9.1,	144.5,	135.7,	-25.5,	-3.8,
33	9.1,	149.0,	122.4,	-18.8,	3.6,	34	9.1,	149.0,	105.4,	-11.6,	11.0,
35	9.1,	144.5,	85.3,	-4.0,	17.9,	36	9.1,	136.6,	63.5,	3.1,	24.2,

SOURCE ID: STCK11

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	147.8,	86.1,	-0.5,	-27.9,	2	9.1,	151.9,	107.0,	-6.9,	-20.0,
3	9.1,	151.4,	124.8,	-13.0,	-11.4,	4	9.1,	146.2,	138.7,	-18.8,	-2.5,
5	9.1,	136.6,	148.4,	-24.0,	6.5,	6	9.1,	122.9,	153.6,	-28.4,	15.3,
7	9.1,	105.4,	154.1,	-32.0,	23.7,	8	9.1,	84.8,	150.0,	-34.7,	31.3,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	86.1,	147.8,	-46.0,	42.5,
11	9.1,	107.0,	151.9,	-56.0,	46.6,	12	9.1,	124.8,	151.4,	-64.3,	49.3,
13	9.1,	138.7,	146.2,	-70.6,	50.5,	14	9.1,	148.4,	136.6,	-74.8,	50.2,
15	9.1,	153.6,	122.9,	-76.8,	48.3,	16	9.1,	154.1,	105.4,	-76.4,	45.0,
17	9.1,	150.0,	84.8,	-73.6,	40.3,	18	9.1,	141.3,	63.2,	-68.7,	34.4,
19	9.1,	147.8,	86.1,	-85.5,	27.9,	20	9.1,	151.9,	107.0,	-100.1,	20.0,
21	9.1,	151.4,	124.8,	-111.7,	11.4,	22	9.1,	146.2,	138.7,	-119.9,	2.5,
23	9.1,	136.6,	148.4,	-124.4,	-6.5,	24	9.1,	122.9,	153.6,	-125.1,	-15.3,
25	9.1,	105.4,	154.1,	-122.1,	-23.7,	26	9.1,	84.8,	150.0,	-115.3,	-31.3,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	86.1,	147.8,	-101.9,	-42.5,
29	9.1,	107.0,	151.9,	-95.9,	-46.6,	30	9.1,	124.8,	151.4,	-87.1,	-49.3,
31	9.1,	138.7,	146.2,	-75.6,	-50.5,	32	9.1,	148.4,	136.6,	-61.8,	-50.2,
33	9.1,	153.6,	122.9,	-46.1,	-48.3,	34	9.1,	154.1,	105.4,	-29.1,	-45.0,
35	9.1,	150.0,	84.8,	-11.1,	-40.3,	36	9.1,	141.3,	63.2,	5.5,	-34.4,

SOURCE ID: STCK12

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	147.8,	86.1,	-12.8,	35.7,	2	9.1,	151.9,	107.0,	-30.1,	40.6,
3	9.1,	151.4,	124.8,	-46.4,	44.2,	4	9.1,	146.2,	138.7,	-61.3,	46.5,
5	9.1,	136.6,	148.4,	-74.3,	47.4,	6	9.1,	122.9,	153.6,	-85.1,	46.8,
7	9.1,	105.4,	154.1,	-93.3,	44.8,	8	9.1,	84.8,	150.0,	-98.7,	41.5,
9	9.1,	63.2,	141.3,	-101.1,	36.1,	10	9.1,	86.1,	147.8,	-109.6,	30.2,

11	9.1,	107.0,	151.9,	-116.5,	23.5,	12	9.1,	124.8,	151.4,	-119.9,	16.0,
13	9.1,	138.7,	146.2,	-119.6,	8.1,	14	9.1,	148.4,	136.6,	-115.7,	-0.1,
15	9.1,	153.6,	122.9,	-108.3,	-8.3,	16	9.1,	154.1,	105.4,	-97.6,	-16.3,
17	9.1,	150.0,	84.8,	-83.9,	-23.7,	18	9.1,	141.3,	63.2,	-67.6,	-30.4,
19	9.1,	147.8,	86.1,	-73.3,	-35.7,	20	9.1,	151.9,	107.0,	-77.0,	-40.6,
21	9.1,	151.4,	124.8,	-78.4,	-44.2,	22	9.1,	146.2,	138.7,	-77.4,	-46.5,
23	9.1,	136.6,	148.4,	-74.0,	-47.4,	24	9.1,	122.9,	153.6,	-68.5,	-46.8,
25	9.1,	105.4,	154.1,	-60.8,	-44.8,	26	9.1,	84.8,	150.0,	-51.3,	-41.5,
27	9.1,	63.2,	141.3,	-40.2,	-36.1,	28	9.1,	86.1,	147.8,	-38.2,	-30.2,
29	9.1,	107.0,	151.9,	-35.4,	-23.5,	30	9.1,	124.8,	151.4,	-31.5,	-16.0,
31	9.1,	138.7,	146.2,	-26.6,	-8.1,	32	9.1,	148.4,	136.6,	-20.9,	0.1,
33	9.1,	153.6,	122.9,	-14.6,	8.3,	34	9.1,	154.1,	105.4,	-7.9,	16.3,
35	9.1,	150.0,	84.8,	-0.9,	23.7,	36	9.1,	141.3,	63.2,	4.5,	30.4,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK13

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	86.3,	131.2,	-92.7,	-47.5,	2	9.1,	103.6,	136.9,	-87.0,	-51.6,
3	9.1,	117.9,	138.3,	-78.5,	-54.1,	4	9.1,	128.5,	135.6,	-67.7,	-55.0,
5	9.1,	135.3,	128.7,	-54.9,	-54.2,	6	9.1,	137.9,	118.0,	-40.3,	-51.8,
7	9.1,	136.4,	103.6,	-24.6,	-47.8,	8	9.1,	130.7,	86.1,	-8.1,	-42.3,
9	9.1,	121.9,	66.5,	8.7,	-35.0,	10	9.1,	131.2,	86.3,	4.4,	-27.1,
11	9.1,	136.9,	103.6,	-0.2,	-18.5,	12	9.1,	138.3,	117.9,	-4.8,	-9.4,
13	9.1,	135.6,	128.5,	-9.2,	0.1,	14	9.1,	128.7,	135.3,	-13.4,	9.5,
15	9.1,	118.0,	137.9,	-17.2,	18.7,	16	9.1,	103.6,	136.4,	-20.4,	27.2,
17	9.1,	86.1,	130.7,	-23.1,	35.0,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	86.3,	131.2,	-38.5,	47.5,	20	9.1,	103.6,	136.9,	-49.9,	51.6,
21	9.1,	117.9,	138.3,	-59.8,	54.1,	22	9.1,	128.5,	135.6,	-67.9,	55.0,
23	9.1,	135.3,	128.7,	-73.9,	54.2,	24	9.1,	137.9,	118.0,	-77.6,	51.8,
25	9.1,	136.4,	103.6,	-79.0,	47.8,	26	9.1,	130.7,	86.1,	-78.0,	42.3,
27	9.1,	121.9,	66.5,	-75.1,	35.0,	28	9.1,	131.2,	86.3,	-90.7,	27.1,
29	9.1,	136.9,	103.6,	-103.5,	18.5,	30	9.1,	138.3,	117.9,	-113.1,	9.4,
31	9.1,	135.6,	128.5,	-119.3,	-0.1,	32	9.1,	128.7,	135.3,	-121.9,	-9.5,
33	9.1,	118.0,	137.9,	-120.7,	-18.7,	34	9.1,	103.6,	136.4,	-115.9,	-27.2,
35	9.1,	86.1,	130.7,	-107.6,	-35.0,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK14

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	86.3,	131.2,	-29.3,	-34.6,	2	9.1,	103.6,	136.9,	-26.7,	-27.9,
3	9.1,	117.9,	138.3,	-23.4,	-20.3,	4	9.1,	128.5,	135.6,	-19.2,	-12.1,
5	9.1,	135.3,	128.7,	-14.6,	-3.6,	6	9.1,	137.9,	118.0,	-9.5,	5.1,
7	9.1,	136.4,	103.6,	-4.0,	13.6,	8	9.1,	130.7,	86.1,	1.5,	21.8,

9	9.1,	121.9,	66.5,	7.0,	29.7,	10	9.1,	131.2,	86.3,	-8.5,	36.3,
11	9.1,	136.9,	103.6,	-23.9,	41.7,	12	9.1,	138.3,	117.9,	-38.6,	45.8,
13	9.1,	135.6,	128.5,	-52.1,	48.5,	14	9.1,	128.7,	135.3,	-64.1,	49.8,
15	9.1,	118.0,	137.9,	-74.1,	49.5,	16	9.1,	103.6,	136.4,	-81.8,	47.8,
17	9.1,	86.1,	130.7,	-87.1,	44.5,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	86.3,	131.2,	-101.9,	34.6,	20	9.1,	103.6,	136.9,	-110.1,	27.9,
21	9.1,	117.9,	138.3,	-115.0,	20.3,	22	9.1,	128.5,	135.6,	-116.3,	12.1,
23	9.1,	135.3,	128.7,	-114.2,	3.6,	24	9.1,	137.9,	118.0,	-108.5,	-5.1,
25	9.1,	136.4,	103.6,	-99.6,	-13.6,	26	9.1,	130.7,	86.1,	-87.6,	-21.8,
27	9.1,	121.9,	66.5,	-73.5,	-29.7,	28	9.1,	131.2,	86.3,	-77.8,	-36.3,
29	9.1,	136.9,	103.6,	-79.7,	-41.7,	30	9.1,	138.3,	117.9,	-79.3,	-45.8,
31	9.1,	135.6,	128.5,	-76.4,	-48.5,	32	9.1,	128.7,	135.3,	-71.2,	-49.8,
33	9.1,	118.0,	137.9,	-63.8,	-49.5,	34	9.1,	103.6,	136.4,	-54.5,	-47.8,
35	9.1,	86.1,	130.7,	-43.6,	-44.5,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK15

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	144.3,	83.7,	-0.4,	-26.7,	2	9.1,	148.5,	104.0,	-6.6,	-19.1,
3	9.1,	148.2,	121.2,	-12.7,	-10.9,	4	9.1,	143.4,	134.7,	-18.4,	-2.4,
5	9.1,	134.3,	144.0,	-23.6,	6.1,	6	9.1,	121.1,	149.0,	-28.0,	14.5,
7	9.1,	104.2,	149.5,	-31.6,	22.4,	8	9.1,	84.1,	145.5,	-34.2,	29.7,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	83.7,	144.3,	-45.5,	41.5,
11	9.1,	104.0,	148.5,	-55.2,	45.4,	12	9.1,	121.2,	148.2,	-63.2,	47.9,
13	9.1,	134.7,	143.4,	-69.3,	48.9,	14	9.1,	144.0,	134.3,	-73.3,	48.5,
15	9.1,	149.0,	121.1,	-75.0,	46.5,	16	9.1,	149.5,	104.2,	-74.5,	43.2,
17	9.1,	145.5,	84.1,	-71.7,	38.6,	18	9.1,	137.0,	61.5,	-66.8,	32.8,
19	9.1,	144.3,	83.7,	-83.3,	26.7,	20	9.1,	148.5,	104.0,	-97.4,	19.1,
21	9.1,	148.2,	121.2,	-108.4,	10.9,	22	9.1,	143.4,	134.7,	-116.2,	2.4,
23	9.1,	134.3,	144.0,	-120.5,	-6.1,	24	9.1,	121.1,	149.0,	-121.1,	-14.5,
25	9.1,	104.2,	149.5,	-118.0,	-22.4,	26	9.1,	84.1,	145.5,	-111.3,	-29.7,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	83.7,	144.3,	-98.8,	-41.5,
29	9.1,	104.0,	148.5,	-93.3,	-45.4,	30	9.1,	121.2,	148.2,	-85.0,	-47.9,
31	9.1,	134.7,	143.4,	-74.2,	-48.9,	32	9.1,	144.0,	134.3,	-61.0,	-48.5,
33	9.1,	149.0,	121.1,	-46.1,	-46.5,	34	9.1,	149.5,	104.2,	-29.7,	-43.2,
35	9.1,	145.5,	84.1,	-12.4,	-38.6,	36	9.1,	137.0,	61.5,	5.3,	-32.8,

SOURCE ID: STCK16

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	144.3,	83.7,	-9.6,	35.7,	2	9.1,	148.5,	104.0,	-26.6,	40.7,
3	9.1,	148.2,	121.2,	-42.8,	44.5,	4	9.1,	143.4,	134.7,	-57.6,	46.9,
5	9.1,	134.3,	144.0,	-70.7,	47.9,	6	9.1,	121.1,	149.0,	-81.7,	47.5,
7	9.1,	104.2,	149.5,	-90.2,	45.6,	8	9.1,	84.1,	145.5,	-95.9,	42.3,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	83.7,	144.3,	-107.8,	32.2,
11	9.1,	104.0,	148.5,	-114.9,	25.4,	12	9.1,	121.2,	148.2,	-118.6,	17.8,
13	9.1,	134.7,	143.4,	-118.6,	9.7,	14	9.1,	144.0,	134.3,	-115.1,	1.3,
15	9.1,	149.0,	121.1,	-108.0,	-7.2,	16	9.1,	149.5,	104.2,	-97.6,	-15.4,
17	9.1,	145.5,	84.1,	-84.3,	-23.2,	18	9.1,	137.0,	61.5,	-68.5,	-30.2,
19	9.1,	144.3,	83.7,	-74.1,	-35.7,	20	9.1,	148.5,	104.0,	-77.4,	-40.7,
21	9.1,	148.2,	121.2,	-78.4,	-44.5,	22	9.1,	143.4,	134.7,	-77.0,	-46.9,

23	9.1,	134.3,	144.0,	-73.3,	-47.9,	24	9.1,	121.1,	149.0,	-67.3,	-47.5,
25	9.1,	104.2,	149.5,	-59.3,	-45.6,	26	9.1,	84.1,	145.5,	-49.5,	-42.3,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	83.7,	144.3,	-36.4,	-32.2,
29	9.1,	104.0,	148.5,	-33.5,	-25.4,	30	9.1,	121.2,	148.2,	-29.6,	-17.8,
31	9.1,	134.7,	143.4,	-24.8,	-9.7,	32	9.1,	144.0,	134.3,	-19.2,	-1.3,
33	9.1,	149.0,	121.1,	-13.1,	7.2,	34	9.1,	149.5,	104.2,	-6.5,	15.4,
35	9.1,	145.5,	84.1,	0.2,	23.2,	36	9.1,	137.0,	61.5,	7.0,	30.2,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK18

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	145.4,	85.4,	1.1,	-24.1,	2	9.1,	150.0,	105.4,	-5.4,	-16.2,
3	9.1,	150.0,	122.2,	-11.6,	-7.7,	4	9.1,	145.5,	135.3,	-17.5,	1.0,
5	9.1,	136.6,	144.3,	-22.9,	9.7,	6	9.1,	123.5,	148.9,	-27.6,	18.1,
7	9.1,	106.6,	149.0,	-31.4,	25.9,	8	9.1,	86.5,	144.5,	-34.3,	32.9,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	85.4,	145.4,	-48.6,	43.7,
11	9.1,	105.4,	150.0,	-58.8,	47.3,	12	9.1,	122.2,	150.0,	-67.3,	49.5,
13	9.1,	135.3,	145.5,	-73.8,	50.1,	14	9.1,	144.3,	136.6,	-78.0,	49.3,
15	9.1,	148.9,	123.5,	-79.8,	46.9,	16	9.1,	149.0,	106.6,	-79.2,	43.1,
17	9.1,	144.5,	86.5,	-76.2,	38.0,	18	9.1,	136.4,	63.8,	-70.9,	31.4,
19	9.1,	145.4,	85.4,	-86.4,	24.1,	20	9.1,	150.0,	105.4,	-100.0,	16.2,
21	9.1,	150.0,	122.2,	-110.6,	7.7,	22	9.1,	145.5,	135.3,	-117.8,	-1.0,
23	9.1,	136.6,	144.3,	-121.4,	-9.7,	24	9.1,	123.5,	148.9,	-121.3,	-18.1,
25	9.1,	106.6,	149.0,	-117.6,	-25.9,	26	9.1,	86.5,	144.5,	-110.2,	-32.9,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	85.4,	145.4,	-96.8,	-43.7,
29	9.1,	105.4,	150.0,	-91.1,	-47.3,	30	9.1,	122.2,	150.0,	-82.7,	-49.5,
31	9.1,	135.3,	145.5,	-71.7,	-50.1,	32	9.1,	144.3,	136.6,	-58.6,	-49.3,
33	9.1,	148.9,	123.5,	-43.7,	-46.9,	34	9.1,	149.0,	106.6,	-27.4,	-43.1,
35	9.1,	144.5,	86.5,	-10.4,	-38.0,	36	9.1,	136.4,	63.8,	7.0,	-31.4,

SOURCE ID: STCK19

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	145.4,	85.4,	-11.9,	39.3,	2	9.1,	150.0,	105.4,	-29.1,	44.1,
3	9.1,	150.0,	122.2,	-45.4,	47.5,	4	9.1,	145.5,	135.3,	-60.4,	49.5,
5	9.1,	136.6,	144.3,	-73.5,	50.0,	6	9.1,	123.5,	148.9,	-84.4,	48.9,
7	9.1,	106.6,	149.0,	-92.8,	46.4,	8	9.1,	86.5,	144.5,	-98.3,	42.5,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	85.4,	145.4,	-112.0,	30.8,
11	9.1,	105.4,	150.0,	-119.1,	23.6,	12	9.1,	122.2,	150.0,	-122.5,	15.7,
13	9.1,	135.3,	145.5,	-122.2,	7.2,	14	9.1,	144.3,	136.6,	-118.2,	-1.4,
15	9.1,	148.9,	123.5,	-110.7,	-10.0,	16	9.1,	149.0,	106.6,	-99.7,	-18.3,
17	9.1,	144.5,	86.5,	-85.7,	-26.0,	18	9.1,	136.4,	63.8,	-69.2,	-33.3,
19	9.1,	145.4,	85.4,	-73.5,	-39.3,	20	9.1,	150.0,	105.4,	-76.3,	-44.1,

21	9.1,	150.0,	122.2,	-76.8,	-47.5,	22	9.1,	145.5,	135.3,	-74.9,	-49.5,
23	9.1,	136.6,	144.3,	-70.7,	-50.0,	24	9.1,	123.5,	148.9,	-64.4,	-48.9,
25	9.1,	106.6,	149.0,	-56.2,	-46.4,	26	9.1,	86.5,	144.5,	-46.2,	-42.5,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	85.4,	145.4,	-33.4,	-30.8,
29	9.1,	105.4,	150.0,	-30.9,	-23.6,	30	9.1,	122.2,	150.0,	-27.5,	-15.7,
31	9.1,	135.3,	145.5,	-23.3,	-7.2,	32	9.1,	144.3,	136.6,	-18.3,	1.4,
33	9.1,	148.9,	123.5,	-12.8,	10.0,	34	9.1,	149.0,	106.6,	-6.9,	18.3,
35	9.1,	144.5,	86.5,	-0.8,	26.0,	36	9.1,	136.4,	63.8,	5.3,	33.3,

SOURCE ID: STCK20

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	147.0,	85.4,	-73.6,	-40.5,	2	9.1,	151.3,	106.0,	-76.3,	-45.1,
3	9.1,	150.9,	123.3,	-76.7,	-48.3,	4	9.1,	145.9,	137.0,	-74.8,	-50.1,
5	9.1,	136.6,	146.5,	-70.6,	-50.3,	6	9.1,	123.0,	151.5,	-64.2,	-49.0,
7	9.1,	105.8,	151.9,	-55.9,	-46.2,	8	9.1,	85.3,	147.7,	-45.9,	-42.1,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	85.4,	147.0,	-33.0,	-30.9,
11	9.1,	106.0,	151.3,	-30.5,	-23.4,	12	9.1,	123.3,	150.9,	-27.1,	-15.0,
13	9.1,	137.0,	145.9,	-22.9,	-6.3,	14	9.1,	146.5,	136.6,	-17.9,	2.7,
15	9.1,	151.5,	123.0,	-12.5,	11.5,	16	9.1,	151.9,	105.8,	-6.6,	20.1,
17	9.1,	147.7,	85.3,	-0.6,	28.0,	18	9.1,	139.0,	63.2,	5.5,	35.0,
19	9.1,	147.0,	85.4,	-11.8,	40.5,	20	9.1,	151.3,	106.0,	-29.6,	45.1,
21	9.1,	150.9,	123.3,	-46.6,	48.3,	22	9.1,	145.9,	137.0,	-62.2,	50.1,
23	9.1,	136.6,	146.5,	-75.9,	50.3,	24	9.1,	123.0,	151.5,	-87.3,	49.0,
25	9.1,	105.8,	151.9,	-96.0,	46.2,	26	9.1,	85.3,	147.7,	-101.8,	42.1,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	85.4,	147.0,	-114.0,	30.9,
29	9.1,	106.0,	151.3,	-120.7,	23.4,	30	9.1,	123.3,	150.9,	-123.8,	15.0,
31	9.1,	137.0,	145.9,	-123.1,	6.3,	32	9.1,	146.5,	136.6,	-118.6,	-2.7,
33	9.1,	151.5,	123.0,	-110.5,	-11.5,	34	9.1,	151.9,	105.8,	-99.1,	-20.1,
35	9.1,	147.7,	85.3,	-84.7,	-28.0,	36	9.1,	139.0,	63.2,	-68.7,	-35.0,

SOURCE ID: STCK21

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	147.0,	85.4,	-87.0,	30.6,	2	9.1,	151.3,	106.0,	-101.9,	22.6,
3	9.1,	150.9,	123.3,	-113.6,	13.9,	4	9.1,	145.9,	137.0,	-121.9,	4.8,
5	9.1,	136.6,	146.5,	-126.5,	-4.5,	6	9.1,	123.0,	151.5,	-127.3,	-13.6,
7	9.1,	105.8,	151.9,	-124.2,	-22.3,	8	9.1,	85.3,	147.7,	-117.3,	-30.3,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	85.4,	147.0,	-104.1,	-44.3,
11	9.1,	106.0,	151.3,	-98.2,	-48.9,	12	9.1,	123.3,	150.9,	-89.4,	-52.0,
13	9.1,	137.0,	145.9,	-77.8,	-53.4,	14	9.1,	146.5,	136.6,	-63.8,	-53.3,
15	9.1,	151.5,	123.0,	-47.9,	-51.6,	16	9.1,	151.9,	105.8,	-30.6,	-48.2,
17	9.1,	147.7,	85.3,	-12.3,	-43.5,	18	9.1,	139.0,	63.2,	6.3,	-37.3,
19	9.1,	147.0,	85.4,	1.7,	-30.6,	20	9.1,	151.3,	106.0,	-4.1,	-22.6,
21	9.1,	150.9,	123.3,	-9.7,	-13.9,	22	9.1,	145.9,	137.0,	-15.0,	-4.8,
23	9.1,	136.6,	146.5,	-19.9,	4.5,	24	9.1,	123.0,	151.5,	-24.2,	13.6,
25	9.1,	105.8,	151.9,	-27.7,	22.3,	26	9.1,	85.3,	147.7,	-30.4,	30.3,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	85.4,	147.0,	-42.9,	44.3,
29	9.1,	106.0,	151.3,	-53.0,	48.9,	30	9.1,	123.3,	150.9,	-61.5,	52.0,
31	9.1,	137.0,	145.9,	-68.2,	53.4,	32	9.1,	146.5,	136.6,	-72.7,	53.3,
33	9.1,	151.5,	123.0,	-75.1,	51.6,	34	9.1,	151.9,	105.8,	-75.2,	48.2,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK22

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	49.7,	70.3,	-44.7,	24.0,	2	9.1,	59.0,	73.7,	-50.3,	22.0,
3	9.1,	66.4,	74.8,	-54.4,	19.4,	4	9.1,	71.8,	73.8,	-56.9,	16.2,
5	9.1,	75.1,	70.4,	-57.6,	12.5,	6	9.1,	76.0,	64.9,	-56.6,	8.5,
7	9.1,	74.7,	57.5,	-53.8,	4.1,	8	9.1,	71.1,	48.3,	-49.4,	-0.3,
9	9.1,	65.6,	39.0,	-44.7,	-4.9,	10	9.1,	70.3,	49.8,	-48.8,	-9.5,
11	9.1,	73.7,	59.0,	-51.5,	-13.5,	12	9.1,	74.8,	66.4,	-52.6,	-17.0,
13	9.1,	73.8,	71.8,	-52.2,	-20.0,	14	9.1,	70.4,	75.1,	-50.1,	-22.4,
15	9.1,	64.9,	76.0,	-46.5,	-24.1,	16	9.1,	57.5,	74.7,	-41.5,	-25.1,
17	9.1,	48.3,	71.1,	-35.2,	-25.3,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	49.8,	70.3,	-25.6,	-24.0,	20	9.1,	59.0,	73.7,	-23.4,	-22.0,
21	9.1,	66.4,	74.8,	-20.4,	-19.4,	22	9.1,	71.8,	73.8,	-16.9,	-16.2,
23	9.1,	75.1,	70.4,	-12.8,	-12.5,	24	9.1,	76.0,	64.9,	-8.4,	-8.5,
25	9.1,	74.7,	57.5,	-3.6,	-4.1,	26	9.1,	71.1,	48.3,	1.2,	0.3,
27	9.1,	65.6,	39.0,	5.7,	4.9,	28	9.1,	70.3,	49.8,	-0.9,	9.5,
29	9.1,	73.7,	59.0,	-7.5,	13.5,	30	9.1,	74.8,	66.4,	-13.8,	17.0,
31	9.1,	73.8,	71.8,	-19.7,	20.0,	32	9.1,	70.4,	75.1,	-25.0,	22.4,
33	9.1,	64.9,	76.0,	-29.6,	24.1,	34	9.1,	57.5,	74.7,	-33.2,	25.1,
35	9.1,	48.3,	71.1,	-35.8,	25.3,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK23

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	44.6,	69.9,	-32.1,	-23.6,	2	9.1,	54.0,	72.6,	-29.5,	-22.7,
3	9.1,	61.8,	73.0,	-26.0,	-21.1,	4	9.1,	145.9,	137.0,	-131.2,	71.5,
5	9.1,	136.6,	146.5,	-147.2,	59.6,	6	9.1,	123.0,	151.5,	-158.8,	45.9,
7	9.1,	105.8,	151.9,	-165.6,	30.8,	8	9.1,	85.3,	147.7,	-167.3,	14.8,
9	9.1,	63.2,	139.0,	-163.9,	-2.2,	10	9.1,	85.4,	147.0,	-166.5,	-19.0,
11	9.1,	106.0,	151.3,	-164.1,	-34.8,	12	9.1,	123.3,	150.9,	-156.6,	-49.5,
13	9.1,	137.0,	145.9,	-144.5,	-62.7,	14	9.1,	146.5,	136.6,	-127.9,	-74.0,
15	9.1,	61.3,	73.1,	-23.6,	19.4,	16	9.1,	53.4,	72.5,	-27.0,	21.4,
17	9.1,	43.9,	69.7,	-29.5,	22.6,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	44.6,	69.9,	-37.8,	23.6,	20	9.1,	54.0,	72.6,	-43.1,	22.7,
21	9.1,	61.8,	73.0,	-47.0,	21.1,	22	9.1,	145.9,	137.0,	-5.8,	-71.5,
23	9.1,	136.6,	146.5,	0.8,	-59.6,	24	9.1,	123.0,	151.5,	7.3,	-45.9,
25	9.1,	105.8,	151.9,	13.7,	-30.8,	26	9.1,	69.7,	43.9,	-44.6,	5.3,
27	9.1,	65.2,	34.1,	-40.6,	1.2,	28	9.1,	69.9,	44.6,	-45.9,	-2.8,
29	9.1,	106.0,	151.3,	12.8,	34.8,	30	9.1,	123.3,	150.9,	5.8,	49.5,
31	9.1,	137.0,	145.9,	-1.5,	62.7,	32	9.1,	146.5,	136.6,	-8.7,	74.0,

33	9.1,	61.3,	73.1,	-49.4,	-19.4,	34	9.1,	53.4,	72.5,	-45.5,	-21.4,
35	9.1,	43.9,	69.7,	-40.2,	-22.6,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK24

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	92.2,	143.7,	-99.8,	-46.4,	2	9.1,	111.7,	148.7,	-93.6,	-50.5,
3	9.1,	127.9,	149.2,	-84.6,	-53.0,	4	9.1,	140.2,	145.2,	-73.0,	-53.9,
5	9.1,	148.2,	136.8,	-59.2,	-53.2,	6	9.1,	151.7,	124.2,	-43.6,	-50.9,
7	9.1,	150.6,	107.8,	-26.7,	-47.1,	8	9.1,	144.9,	88.2,	-9.0,	-41.8,
9	9.1,	135.1,	69.8,	6.0,	-35.3,	10	9.1,	143.7,	92.2,	0.3,	-27.9,
11	9.1,	148.7,	111.7,	-5.4,	-19.2,	12	9.1,	149.2,	127.9,	-10.9,	-10.0,
13	9.1,	145.2,	140.2,	-16.1,	-0.4,	14	9.1,	136.8,	148.2,	-20.8,	9.2,
15	9.1,	124.2,	151.7,	-24.9,	18.5,	16	9.1,	107.8,	150.6,	-28.2,	27.2,
17	9.1,	88.2,	144.9,	-30.7,	35.1,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	92.2,	143.7,	-43.9,	46.4,	20	9.1,	111.7,	148.7,	-55.1,	50.5,
21	9.1,	127.9,	149.2,	-64.6,	53.0,	22	9.1,	140.2,	145.2,	-72.2,	53.9,
23	9.1,	148.2,	136.8,	-77.6,	53.2,	24	9.1,	151.7,	124.2,	-80.6,	50.9,
25	9.1,	150.6,	107.8,	-81.1,	47.1,	26	9.1,	144.9,	88.2,	-79.2,	41.8,
27	9.1,	135.1,	69.8,	-75.8,	35.3,	28	9.1,	143.7,	92.2,	-92.5,	27.9,
29	9.1,	148.7,	111.7,	-106.3,	19.2,	30	9.1,	149.2,	127.9,	-117.0,	10.0,
31	9.1,	145.2,	140.2,	-124.0,	0.4,	32	9.1,	136.8,	148.2,	-127.3,	-9.2,
33	9.1,	124.2,	151.7,	-126.8,	-18.5,	34	9.1,	107.8,	150.6,	-122.4,	-27.2,
35	9.1,	88.2,	144.9,	-114.2,	-35.1,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK25

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	92.2,	143.7,	-28.4,	-34.6,	2	9.1,	111.7,	148.7,	-25.3,	-26.5,
3	9.1,	127.9,	149.2,	-21.5,	-17.6,	4	9.1,	140.2,	145.2,	-17.0,	-8.1,
5	9.1,	148.2,	136.8,	-12.0,	1.7,	6	9.1,	151.7,	124.2,	-6.7,	11.3,
7	9.1,	150.6,	107.8,	-1.1,	20.7,	8	9.1,	144.9,	88.2,	4.5,	29.4,
9	9.1,	135.1,	69.8,	6.8,	37.0,	10	9.1,	143.7,	92.2,	-11.5,	43.5,
11	9.1,	148.7,	111.7,	-29.4,	49.0,	12	9.1,	149.2,	127.9,	-46.4,	53.1,
13	9.1,	145.2,	140.2,	-62.0,	55.6,	14	9.1,	136.8,	148.2,	-75.7,	56.3,
15	9.1,	124.2,	151.7,	-87.2,	55.4,	16	9.1,	107.8,	150.6,	-96.0,	52.8,
17	9.1,	88.2,	144.9,	-101.8,	48.5,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	92.2,	143.7,	-115.3,	34.6,	20	9.1,	111.7,	148.7,	-123.4,	26.5,
21	9.1,	127.9,	149.2,	-127.7,	17.6,	22	9.1,	140.2,	145.2,	-128.2,	8.1,
23	9.1,	148.2,	136.8,	-124.7,	-1.7,	24	9.1,	151.7,	124.2,	-117.5,	-11.3,
25	9.1,	150.6,	107.8,	-106.7,	-20.7,	26	9.1,	144.9,	88.2,	-92.6,	-29.4,
27	9.1,	135.1,	69.8,	-76.6,	-37.0,	28	9.1,	143.7,	92.2,	-80.7,	-43.5,
29	9.1,	148.7,	111.7,	-82.4,	-49.0,	30	9.1,	149.2,	127.9,	-81.5,	-53.1,
31	9.1,	145.2,	140.2,	-78.2,	-55.6,	32	9.1,	136.8,	148.2,	-72.4,	-56.3,
33	9.1,	124.2,	151.7,	-64.5,	-55.4,	34	9.1,	107.8,	150.6,	-54.6,	-52.8,
35	9.1,	88.2,	144.9,	-43.1,	-48.5,	36	0.0,	0.0,	0.0,	0.0,	0.0,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK26

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	146.6,	97.9,	-1.7,	-20.8,	2	9.1,	153.0,	117.4,	-8.7,	-12.3,
3	9.1,	154.8,	133.4,	-15.4,	-3.5,	4	9.1,	151.8,	145.3,	-21.6,	5.5,
5	9.1,	144.3,	152.9,	-27.2,	14.2,	6	9.1,	132.4,	155.7,	-31.9,	22.6,
7	9.1,	116.4,	153.9,	-35.7,	30.2,	8	9.1,	96.9,	147.3,	-38.4,	36.9,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	97.9,	146.6,	-52.5,	47.2,
11	9.1,	117.4,	153.0,	-64.2,	50.0,	12	9.1,	133.4,	154.8,	-73.9,	51.3,
13	9.1,	145.3,	151.8,	-81.4,	51.1,	14	9.1,	152.9,	144.3,	-86.4,	49.3,
15	9.1,	155.7,	132.4,	-88.8,	45.9,	16	9.1,	153.9,	116.4,	-88.4,	41.2,
17	9.1,	147.3,	96.9,	-85.4,	35.3,	18	9.1,	136.3,	75.3,	-80.6,	28.3,
19	9.1,	146.6,	97.9,	-96.2,	20.8,	20	9.1,	153.0,	117.4,	-108.8,	12.3,
21	9.1,	154.8,	133.4,	-118.0,	3.5,	22	9.1,	151.8,	145.3,	-123.8,	-5.5,
23	9.1,	144.3,	152.9,	-125.7,	-14.2,	24	9.1,	132.4,	155.7,	-123.8,	-22.6,
25	9.1,	116.4,	153.9,	-118.2,	-30.2,	26	9.1,	96.9,	147.3,	-109.0,	-36.9,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	97.9,	146.6,	-94.0,	-47.2,
29	9.1,	117.4,	153.0,	-88.8,	-50.0,	30	9.1,	133.4,	154.8,	-80.9,	-51.3,
31	9.1,	145.3,	151.8,	-70.5,	-51.1,	32	9.1,	152.9,	144.3,	-57.9,	-49.3,
33	9.1,	155.7,	132.4,	-43.6,	-45.9,	34	9.1,	153.9,	116.4,	-28.0,	-41.2,
35	9.1,	147.3,	96.9,	-11.5,	-35.3,	36	9.1,	136.3,	75.3,	5.3,	-28.3,

SOURCE ID: STCK27

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	146.6,	97.9,	-10.3,	33.7,	2	9.1,	153.0,	117.4,	-26.6,	39.8,
3	9.1,	154.8,	133.4,	-42.0,	44.7,	4	9.1,	151.8,	145.3,	-56.2,	48.3,
5	9.1,	144.3,	152.9,	-68.7,	50.4,	6	9.1,	132.4,	155.7,	-79.1,	51.0,
7	9.1,	116.4,	153.9,	-87.1,	50.0,	8	9.1,	96.9,	147.3,	-92.5,	47.5,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	97.9,	146.6,	-107.0,	38.6,
11	9.1,	117.4,	153.0,	-116.3,	32.1,	12	9.1,	133.4,	154.8,	-122.1,	24.7,
13	9.1,	145.3,	151.8,	-124.2,	16.4,	14	9.1,	152.9,	144.3,	-122.6,	7.7,
15	9.1,	155.7,	132.4,	-117.2,	-1.3,	16	9.1,	153.9,	116.4,	-108.2,	-10.2,
17	9.1,	147.3,	96.9,	-96.0,	-18.8,	18	9.1,	136.3,	75.3,	-81.6,	-26.8,
19	9.1,	146.6,	97.9,	-87.6,	-33.7,	20	9.1,	153.0,	117.4,	-90.8,	-39.8,
21	9.1,	154.8,	133.4,	-91.4,	-44.7,	22	9.1,	151.8,	145.3,	-89.1,	-48.3,
23	9.1,	144.3,	152.9,	-84.1,	-50.4,	24	9.1,	132.4,	155.7,	-76.6,	-51.0,
25	9.1,	116.4,	153.9,	-66.7,	-50.0,	26	9.1,	96.9,	147.3,	-54.9,	-47.5,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	97.9,	146.6,	-39.6,	-38.6,
29	9.1,	117.4,	153.0,	-36.7,	-32.1,	30	9.1,	133.4,	154.8,	-32.6,	-24.7,
31	9.1,	145.3,	151.8,	-27.6,	-16.4,	32	9.1,	152.9,	144.3,	-21.7,	-7.7,
33	9.1,	155.7,	132.4,	-15.2,	1.3,	34	9.1,	153.9,	116.4,	-8.2,	10.2,
35	9.1,	147.3,	96.9,	-1.0,	18.8,	36	9.1,	136.3,	75.3,	6.3,	26.8,

SOURCE ID: STCK28

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ

1	9.1,	49.3,	82.2,	-36.8,	-22.8,	2	9.1,	60.6,	84.5,	-34.0,	-21.6,
3	9.1,	70.1,	84.2,	-30.3,	-19.8,	4	9.1,	151.8,	145.3,	-133.3,	77.8,
5	9.1,	144.3,	152.9,	-149.7,	66.1,	6	9.1,	132.4,	155.7,	-161.6,	52.3,
7	9.1,	116.4,	153.9,	-168.6,	37.0,	8	9.1,	96.9,	147.3,	-170.5,	20.6,
9	9.1,	75.3,	136.3,	-167.1,	3.9,	10	9.1,	97.9,	146.6,	-171.0,	-13.4,
11	9.1,	117.4,	153.0,	-170.4,	-30.2,	12	9.1,	133.4,	154.8,	-164.6,	-46.1,
13	9.1,	145.3,	151.8,	-153.7,	-60.6,	14	9.1,	152.9,	144.3,	-138.2,	-73.3,
15	9.1,	68.5,	84.9,	-31.3,	20.2,	16	9.1,	58.8,	84.8,	-35.0,	21.8,
17	9.1,	47.3,	82.1,	-37.6,	22.8,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	49.3,	82.2,	-45.4,	22.8,	20	9.1,	60.6,	84.5,	-50.4,	21.6,
21	9.1,	70.1,	84.2,	-53.9,	19.8,	22	9.1,	151.8,	145.3,	-12.0,	-77.8,
23	9.1,	144.3,	152.9,	-3.1,	-66.1,	24	9.1,	132.4,	155.7,	5.9,	-52.3,
25	9.1,	116.4,	153.9,	14.7,	-37.0,	26	9.1,	82.1,	47.3,	-46.4,	3.5,
27	9.1,	77.4,	36.5,	-41.5,	-0.3,	28	9.1,	82.2,	49.3,	-47.4,	-4.3,
29	9.1,	117.4,	153.0,	17.4,	30.2,	30	9.1,	133.4,	154.8,	9.8,	46.1,
31	9.1,	145.3,	151.8,	1.9,	60.6,	32	9.1,	152.9,	144.3,	-6.1,	73.3,
33	9.1,	68.5,	84.9,	-53.5,	-20.2,	34	9.1,	58.8,	84.8,	-49.8,	-21.8,
35	9.1,	47.3,	82.1,	-44.5,	-22.8,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK29

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	93.5,	159.3,	-108.7,	-51.0,	2	9.1,	115.9,	163.6,	-101.5,	-55.1,
3	9.1,	134.7,	163.0,	-91.3,	-57.6,	4	9.1,	149.5,	157.3,	-78.2,	-58.3,
5	9.1,	159.8,	146.9,	-62.9,	-57.3,	6	9.1,	165.2,	132.1,	-45.6,	-54.5,
7	9.1,	165.6,	113.2,	-26.9,	-50.1,	8	9.1,	160.9,	90.9,	-7.4,	-44.1,
9	9.1,	77.4,	36.5,	-80.2,	40.4,	10	9.1,	82.2,	49.3,	-92.7,	29.0,
11	9.1,	84.5,	60.6,	-102.4,	16.8,	12	9.1,	84.2,	70.1,	-109.0,	4.0,
13	9.1,	81.4,	77.4,	-112.3,	-8.9,	14	9.1,	76.1,	82.4,	-112.1,	-21.6,
15	9.1,	68.5,	84.9,	-108.6,	-33.5,	16	9.1,	113.2,	165.6,	-32.7,	29.7,
17	9.1,	90.9,	160.9,	-36.3,	38.1,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	93.5,	159.3,	-50.6,	51.0,	20	9.1,	115.9,	163.6,	-62.1,	55.1,
21	9.1,	134.7,	163.0,	-71.7,	57.6,	22	9.1,	149.5,	157.3,	-79.1,	58.3,
23	9.1,	159.8,	146.9,	-84.1,	57.3,	24	9.1,	165.2,	132.1,	-86.5,	54.5,
25	9.1,	165.6,	113.2,	-86.3,	50.1,	26	9.1,	160.9,	90.9,	-83.5,	44.1,
27	9.1,	151.4,	68.2,	-79.4,	36.8,	28	9.1,	159.3,	93.5,	-97.7,	29.0,
29	9.1,	163.6,	115.9,	-113.0,	19.7,	30	9.1,	163.0,	134.7,	-125.0,	9.8,
31	9.1,	157.3,	149.5,	-133.1,	-0.4,	32	9.1,	146.9,	159.8,	-137.2,	-10.6,
33	9.1,	132.1,	165.2,	-137.1,	-20.5,	34	9.1,	113.2,	165.6,	-132.9,	-29.7,
35	9.1,	90.9,	160.9,	-124.6,	-38.1,	36	0.0,	0.0,	0.0,	0.0,	0.0,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK30

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	93.5,	159.3,	-44.0,	-39.4,	2	9.1,	115.9,	163.6,	-39.9,	-32.5,
3	9.1,	134.7,	163.0,	-34.5,	-24.6,	4	9.1,	149.5,	157.3,	-28.1,	-16.0,
5	9.1,	159.8,	146.9,	-20.8,	-6.9,	6	9.1,	165.2,	132.1,	-12.9,	2.4,
7	9.1,	165.6,	113.2,	-4.6,	11.7,	8	9.1,	160.9,	90.9,	3.8,	20.6,
9	9.1,	151.4,	68.2,	11.0,	28.8,	10	9.1,	159.3,	93.5,	-7.3,	35.6,
11	9.1,	163.6,	115.9,	-25.4,	41.9,	12	9.1,	163.0,	134.7,	-42.8,	47.0,
13	9.1,	157.3,	149.5,	-58.8,	50.6,	14	9.1,	146.9,	159.8,	-73.0,	52.7,
15	9.1,	132.1,	165.2,	-85.0,	53.1,	16	9.1,	113.2,	165.6,	-94.5,	52.0,
17	9.1,	90.9,	160.9,	-101.0,	49.3,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	93.5,	159.3,	-115.3,	39.4,	20	9.1,	115.9,	163.6,	-123.7,	32.5,
21	9.1,	134.7,	163.0,	-128.5,	24.6,	22	9.1,	149.5,	157.3,	-129.2,	16.0,
23	9.1,	159.8,	146.9,	-126.1,	6.9,	24	9.1,	165.2,	132.1,	-119.2,	-2.4,
25	9.1,	165.6,	113.2,	-108.6,	-11.7,	26	9.1,	160.9,	90.9,	-94.7,	-20.6,
27	9.1,	151.4,	68.2,	-79.2,	-28.8,	28	9.1,	159.3,	93.5,	-86.1,	-35.6,
29	9.1,	163.6,	115.9,	-90.4,	-41.9,	30	9.1,	163.0,	134.7,	-92.0,	-47.0,
31	9.1,	157.3,	149.5,	-90.8,	-50.6,	32	9.1,	146.9,	159.8,	-86.8,	-52.7,
33	9.1,	132.1,	165.2,	-80.1,	-53.1,	34	9.1,	113.2,	165.6,	-71.1,	-52.0,
35	9.1,	90.9,	160.9,	-59.9,	-49.3,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK31

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	49.2,	81.9,	-43.7,	-25.6,	2	9.1,	60.6,	84.2,	-40.4,	-25.6,
3	9.1,	153.9,	131.1,	-120.9,	79.1,	4	9.1,	150.5,	143.5,	-140.0,	68.2,
5	9.1,	142.5,	151.6,	-154.9,	55.2,	6	9.1,	130.2,	155.1,	-165.0,	40.5,
7	9.1,	113.9,	153.8,	-170.2,	24.6,	8	9.1,	94.2,	147.9,	-170.2,	8.0,
9	9.1,	72.4,	137.5,	-165.0,	-8.5,	10	9.1,	94.8,	146.8,	-166.8,	-24.9,
11	9.1,	114.7,	152.7,	-163.9,	-40.7,	12	9.1,	131.1,	153.9,	-156.1,	-55.3,
13	9.1,	143.5,	150.5,	-143.4,	-68.2,	14	9.1,	151.6,	142.5,	-126.5,	-79.1,
15	9.1,	68.3,	85.4,	-24.2,	17.6,	16	9.1,	58.6,	85.5,	-27.6,	20.5,
17	9.1,	47.2,	82.9,	-30.2,	22.8,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	49.2,	81.9,	-38.2,	25.6,	20	9.1,	60.6,	84.2,	-43.8,	25.6,
21	9.1,	153.9,	131.1,	-10.2,	-79.1,	22	9.1,	150.5,	143.5,	-3.5,	-68.2,
23	9.1,	142.5,	151.6,	3.3,	-55.2,	24	9.1,	130.2,	155.1,	10.0,	-40.5,
25	9.1,	113.9,	153.8,	16.4,	-24.6,	26	9.1,	82.9,	47.2,	-46.4,	11.3,
27	9.1,	77.8,	36.2,	-42.8,	7.1,	28	9.1,	81.9,	49.2,	-50.1,	2.7,
29	9.1,	114.7,	152.7,	11.3,	40.7,	30	9.1,	131.1,	153.9,	2.1,	55.3,
31	9.1,	143.5,	150.5,	-7.1,	68.2,	32	9.1,	151.6,	142.5,	-16.1,	79.1,
33	9.1,	68.3,	85.4,	-61.2,	-17.6,	34	9.1,	58.6,	85.5,	-57.8,	-20.5,
35	9.1,	47.2,	82.9,	-52.7,	-22.8,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK32

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	146.8,	94.8,	-86.2,	-36.4,	2	9.1,	152.7,	114.7,	-89.2,	-42.8,
3	9.1,	153.9,	131.1,	-89.5,	-47.8,	4	9.1,	150.5,	143.5,	-87.1,	-51.3,
5	9.1,	142.5,	151.6,	-82.0,	-53.3,	6	9.1,	130.2,	155.1,	-74.5,	-53.7,
7	9.1,	113.9,	153.8,	-64.6,	-52.4,	8	9.1,	94.2,	147.9,	-52.9,	-49.6,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	94.8,	146.8,	-36.9,	-38.8,
11	9.1,	114.7,	152.7,	-33.6,	-31.9,	12	9.1,	131.1,	153.9,	-29.2,	-24.0,

13	9.1,	143.5,	150.5,	-23.9,	-15.4,	14	9.1,	151.6,	142.5,	-18.0,	-6.2,
15	9.1,	155.1,	130.2,	-11.4,	3.1,	16	9.1,	153.8,	113.9,	-4.5,	12.3,
17	9.1,	147.9,	94.2,	2.5,	21.1,	18	9.1,	137.5,	72.4,	8.6,	29.3,
19	9.1,	146.8,	94.8,	-8.5,	36.4,	20	9.1,	152.7,	114.7,	-25.4,	42.8,
21	9.1,	153.9,	131.1,	-41.6,	47.8,	22	9.1,	150.5,	143.5,	-56.4,	51.3,
23	9.1,	142.5,	151.6,	-69.6,	53.3,	24	9.1,	130.2,	155.1,	-80.6,	53.7,
25	9.1,	113.9,	153.8,	-89.2,	52.4,	26	9.1,	94.2,	147.9,	-95.0,	49.6,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	94.8,	146.8,	-109.8,	38.8,
29	9.1,	114.7,	152.7,	-119.1,	31.9,	30	9.1,	131.1,	153.9,	-124.7,	24.0,
31	9.1,	143.5,	150.5,	-126.6,	15.4,	32	9.1,	151.6,	142.5,	-124.6,	6.2,
33	9.1,	155.1,	130.2,	-118.8,	-3.1,	34	9.1,	153.8,	113.9,	-109.4,	-12.3,
35	9.1,	147.9,	94.2,	-96.7,	-21.1,	36	9.1,	137.5,	72.4,	-81.0,	-29.3,

SOURCE ID: STCK33

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	146.8,	94.8,	-97.7,	32.1,	2	9.1,	152.7,	114.7,	-112.4,	22.8,
3	9.1,	153.9,	131.1,	-123.8,	12.8,	4	9.1,	150.5,	143.5,	-131.3,	2.3,
5	9.1,	142.5,	151.6,	-134.9,	-8.1,	6	9.1,	130.2,	155.1,	-134.4,	-18.4,
7	9.1,	113.9,	153.8,	-129.8,	-28.1,	8	9.1,	94.2,	147.9,	-121.2,	-36.9,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	94.8,	146.8,	-105.5,	-50.3,
11	9.1,	114.7,	152.7,	-99.1,	-55.1,	12	9.1,	131.1,	153.9,	-89.7,	-58.2,
13	9.1,	143.5,	150.5,	-77.6,	-59.6,	14	9.1,	151.6,	142.5,	-63.1,	-59.1,
15	9.1,	155.1,	130.2,	-46.7,	-56.8,	16	9.1,	153.8,	113.9,	-28.9,	-52.9,
17	9.1,	147.9,	94.2,	-10.2,	-47.3,	18	9.1,	137.5,	72.4,	8.0,	-40.2,
19	9.1,	146.8,	94.8,	2.9,	-32.1,	20	9.1,	152.7,	114.7,	-2.2,	-22.8,
21	9.1,	153.9,	131.1,	-7.3,	-12.8,	22	9.1,	150.5,	143.5,	-12.2,	-2.3,
23	9.1,	142.5,	151.6,	-16.7,	8.1,	24	9.1,	130.2,	155.1,	-20.7,	18.4,
25	9.1,	113.9,	153.8,	-24.1,	28.1,	26	9.1,	94.2,	147.9,	-26.7,	36.9,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	94.8,	146.8,	-41.2,	50.3,
29	9.1,	114.7,	152.7,	-53.5,	55.1,	30	9.1,	131.1,	153.9,	-64.2,	58.2,
31	9.1,	143.5,	150.5,	-72.9,	59.6,	32	9.1,	151.6,	142.5,	-79.4,	59.1,
33	9.1,	155.1,	130.2,	-83.5,	56.8,	34	9.1,	153.8,	113.9,	-85.0,	52.9,
35	9.1,	147.9,	94.2,	-84.0,	47.3,	36	9.1,	137.5,	72.4,	-80.4,	40.2,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK34

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	47.7,	51.1,	-54.0,	-7.5,	2	9.1,	53.4,	55.7,	-54.7,	-12.2,
3	9.1,	57.4,	58.6,	-53.7,	-16.7,	4	9.1,	83.6,	79.5,	-108.7,	37.4,
5	9.1,	80.2,	83.1,	-116.0,	24.8,	6	9.1,	74.3,	84.1,	-119.6,	11.5,
7	9.1,	66.1,	82.6,	-119.7,	-2.1,	8	9.1,	56.0,	78.6,	-116.1,	-15.7,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	51.1,	47.7,	-16.4,	-28.5,

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  11    9.1,   55.7,   53.4,  -14.5,  -26.9,     12    9.1,   58.6,   57.4,  -12.1,  -24.4,
  13    9.1,   59.7,   59.7,   -9.3,  -21.2,     14    9.1,   59.0,   60.2,   -6.3,  -17.4,
  15    9.1,   68.3,   85.4, -107.3,   35.0,     16    9.1,   58.6,   85.5, -112.4,   23.2,
  17    9.1,   47.2,   82.9, -114.1,   10.7,     18    9.1,   36.2,   77.8, -112.4,   -1.8,
  19    9.1,   49.2,   81.9, -113.0,  -14.5,     20    9.1,   60.6,   84.2, -110.5,  -26.8,
  21    9.1,   70.2,   84.0, -104.6,  -38.3,     22    9.1,   59.7,   59.7,   -8.6,   20.6,
  23    9.1,   60.2,   59.0,  -12.1,   23.8,     24    9.1,   58.9,   56.5,  -15.2,   26.4,
  25    9.1,   55.7,   52.3,  -17.9,   28.1,     26    9.1,   50.9,   46.5,  -20.0,   29.0,
  27    0.0,    0.0,    0.0,    0.0,    0.0,     28    9.1,   51.1,   47.7,  -31.4,   28.5,
  29    9.1,   55.7,   53.4,  -39.0,   26.9,     30    9.1,   58.6,   57.4,  -45.4,   24.4,
  31    9.1,   59.7,   59.7,  -50.4,   21.2,     32    9.1,   59.0,   60.2,  -53.9,   17.4,
  33    9.1,   56.5,   58.9,  -55.8,   13.0,     34    9.1,   52.3,   55.7,  -56.0,    8.3,
  35    9.1,   46.5,   50.9,  -54.5,    3.3,     36    9.1,   40.6,   44.9,  -51.7,   -2.5,


*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 1 yr                          ***        05/23/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 1 yr                                ***        16:16:28
                                                                                                                PAGE 159
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                    *** GRIDDED RECEPTOR NETWORK SUMMARY ***

                                 *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART ***

                                         *** X-COORDINATES OF GRID ***
                                                 (METERS)

     541890.5,  542097.6,  542304.7,  542511.8,  542718.9,  542926.0,  543133.1,  543340.2,  543547.3,  543754.4,
     543961.5,  544168.6,  544375.7,  544582.8,  544789.9,  544997.0,  545204.1,  545411.2,  545618.3,  545825.4,
     546032.5,

                                         *** Y-COORDINATES OF GRID ***
                                                 (METERS)

    3753173.3, 3753374.4, 3753575.4, 3753776.4, 3753977.5, 3754178.5, 3754379.5, 3754580.6, 3754781.6, 3754982.6,
    3755183.6, 3755384.7, 3755585.7, 3755786.7, 3755987.8, 3756188.8, 3756389.8, 3756590.9, 3756791.9, 3756992.9,
    3757193.9,

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 1 yr                          ***        05/23/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 1 yr                                ***        16:16:28
                                                                                                                PAGE 160
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                 *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART ***

                                        * ELEVATION HEIGHTS IN METERS *

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     541890.52    542097.62    542304.72    542511.82    542718.92    542926.02    543133.12    543340.22    543547.32
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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3757193.95	346.00	341.60	338.70	336.40	334.60	332.50	329.70	327.90	324.10
3756992.92	341.40	337.70	334.80	332.10	330.40	329.00	325.70	323.90	321.10
3756791.89	337.40	333.80	330.80	327.80	325.80	323.90	322.00	319.50	317.30
3756590.86	332.50	329.40	326.70	324.10	321.50	319.80	316.90	315.40	313.90
3756389.83	328.10	325.30	322.30	319.70	317.30	315.70	312.80	311.70	310.70
3756188.80	323.50	320.70	317.80	315.30	313.50	311.80	309.40	307.30	306.40
3755987.77	319.10	316.20	313.70	311.10	309.20	307.00	305.50	303.50	302.30
3755786.74	314.70	311.60	309.80	307.70	305.70	303.40	301.60	300.30	298.60
3755585.71	310.10	307.60	306.10	303.80	301.70	299.50	297.60	296.70	294.40
3755384.68	305.70	303.00	301.50	299.70	297.40	295.20	294.00	293.00	291.10
3755183.65	301.00	298.40	296.90	295.50	293.30	290.70	289.70	289.00	287.40
3754982.62	296.00	294.10	292.50	291.20	289.20	286.80	286.40	284.90	283.50
3754781.59	291.10	289.50	287.90	286.40	284.80	283.00	281.60	280.60	279.80
3754580.56	286.20	284.80	283.50	281.90	280.30	278.80	277.60	276.70	275.50
3754379.53	281.10	279.80	278.90	277.30	275.90	274.40	273.80	272.80	271.60
3754178.50	276.10	275.30	274.20	272.70	271.50	270.00	269.60	269.20	267.70
3753977.47	270.90	270.20	269.20	268.10	267.00	265.70	265.30	264.80	263.80
3753776.44	265.90	265.30	264.80	263.80	262.40	261.40	261.10	260.70	260.10
3753575.41	261.20	260.80	260.50	259.70	258.70	256.90	257.30	257.00	256.70
3753374.38	257.20	256.20	256.10	255.60	254.70	253.50	253.30	253.10	252.80
3753173.35	252.00	251.20	251.30	250.90	250.20	249.50	249.60	249.50	248.90

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 543754.42	543961.52	544168.62	544375.72	544582.82	544789.92	544997.02	545204.12	545411.22
3757193.95	323.90	320.00	318.60	317.60	314.80	311.80	311.80	309.60	307.50
3756992.92	318.70	317.20	315.00	313.60	312.30	308.30	307.20	305.30	303.90
3756791.89	314.80	313.50	311.10	309.60	308.20	306.50	304.20	302.40	300.50
3756590.86	310.80	309.80	307.50	305.20	304.20	302.60	300.50	299.30	297.20
3756389.83	307.90	306.00	304.40	302.00	301.20	298.90	297.30	295.50	293.80
3756188.80	304.20	302.50	300.10	299.40	298.10	295.10	294.00	291.60	290.40
3755987.77	300.60	299.10	297.10	295.10	293.60	291.90	290.40	288.70	287.00
3755786.74	296.60	295.00	293.30	291.50	290.50	289.00	287.00	285.60	283.80
3755585.71	292.70	291.00	289.80	288.20	287.40	286.00	284.10	282.10	280.40
3755384.68	288.50	287.00	286.30	285.20	283.80	282.60	281.10	278.90	277.00
3755183.65	285.40	283.50	282.70	282.00	281.00	279.20	277.50	276.00	273.60
3754982.62	281.20	279.90	279.10	278.20	276.90	275.30	273.60	272.80	270.80
3754781.59	277.70	276.30	275.60	274.40	273.30	272.20	270.80	269.30	268.20
3754580.56	273.90	272.90	272.20	270.90	269.80	268.90	268.10	266.60	265.00
3754379.53	270.30	268.90	269.00	267.40	266.20	265.20	264.80	263.20	261.80
3754178.50	266.70	265.60	264.90	263.90	262.60	261.70	261.30	260.60	258.70

3753977.47	263.10	261.90	261.20	260.40	259.40	258.70	258.30	257.50	256.50
3753776.44	258.80	257.20	258.10	257.20	256.20	255.40	254.90	254.20	253.10
3753575.41	255.40	255.00	254.70	253.90	252.70	251.50	251.10	250.80	249.80
3753374.38	252.40	251.00	251.50	250.60	249.40	248.50	247.90	247.10	246.50
3753173.35	248.70	247.70	247.50	247.20	246.20	244.90	244.90	243.20	243.20

*** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	545618.32	545825.42	546032.52
3757193.95	305.20	303.50	302.40
3756992.92	301.80	299.30	297.30
3756791.89	299.30	295.70	293.00
3756590.86	295.30	292.70	289.80
3756389.83	292.00	289.30	286.90
3756188.80	288.70	286.00	283.80
3755987.77	285.30	283.00	280.30
3755786.74	281.80	280.10	277.70
3755585.71	279.00	277.10	275.20
3755384.68	275.70	274.00	272.10
3755183.65	272.50	270.70	269.20
3754982.62	269.30	267.80	265.80
3754781.59	266.30	264.80	262.90
3754580.56	263.50	262.10	260.40
3754379.53	260.90	259.40	258.00
3754178.50	258.30	256.90	256.20
3753977.47	255.80	254.20	252.60
3753776.44	252.50	251.20	249.60
3753575.41	249.30	248.00	246.70
3753374.38	246.00	244.70	243.60
3753173.35	242.90	241.60	240.50

*** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD	X-COORD (METERS)

(METERS)	541890.52	542097.62	542304.72	542511.82	542718.92	542926.02	543133.12	543340.22	543547.32
3757193.95	346.00	341.60	338.70	336.40	334.60	332.50	329.70	327.90	324.10
3756992.92	341.40	337.70	334.80	332.10	330.40	329.00	325.70	323.90	321.10
3756791.89	337.40	333.80	330.80	327.80	325.80	323.90	322.00	319.50	317.30
3756590.86	332.50	329.40	326.70	324.10	321.50	319.80	316.90	315.40	313.90
3756389.83	328.10	325.30	322.30	319.70	317.30	315.70	312.80	311.70	310.70
3756188.80	323.50	320.70	317.80	315.30	313.50	311.80	309.40	307.30	306.40
3755987.77	319.10	316.20	313.70	311.10	309.20	307.00	305.50	303.50	302.30
3755786.74	314.70	311.60	309.80	307.70	305.70	303.40	301.60	300.30	298.60
3755585.71	310.10	307.60	306.10	303.80	301.70	299.50	297.60	296.70	294.40
3755384.68	305.70	303.00	301.50	299.70	297.40	295.20	294.00	293.00	291.10
3755183.65	301.00	298.40	296.90	295.50	293.30	290.70	289.70	289.00	287.40
3754982.62	296.00	294.10	292.50	291.20	289.20	286.80	286.40	284.90	283.50
3754781.59	291.10	289.50	287.90	286.40	284.80	283.00	281.60	280.60	279.80
3754580.56	286.20	284.80	283.50	281.90	280.30	278.80	277.60	276.70	275.50
3754379.53	281.10	279.80	278.90	277.30	275.90	274.40	273.80	272.80	271.60
3754178.50	276.10	275.30	274.20	272.70	271.50	270.00	269.60	269.20	267.70
3753977.47	270.90	270.20	269.20	268.10	267.00	265.70	265.30	264.80	263.80
3753776.44	265.90	265.30	264.80	263.80	262.40	261.40	261.10	260.70	260.10
3753575.41	261.20	260.80	260.50	259.70	258.70	256.90	257.30	257.00	256.70
3753374.38	257.20	256.20	256.10	255.60	254.70	253.50	253.30	253.10	252.80
3753173.35	252.00	251.20	251.30	250.90	250.20	249.50	249.60	249.50	248.90

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 543754.42	543961.52	544168.62	544375.72	544582.82	544789.92	544997.02	545204.12	545411.22
3757193.95	323.90	320.00	318.60	317.60	314.80	311.80	311.80	309.60	307.50
3756992.92	318.70	317.20	315.00	313.60	312.30	308.30	307.20	305.30	303.90
3756791.89	314.80	313.50	311.10	309.60	308.20	306.50	304.20	302.40	300.50
3756590.86	310.80	309.80	307.50	305.20	304.20	302.60	300.50	299.30	297.20
3756389.83	307.90	306.00	304.40	302.00	301.20	298.90	297.30	295.50	293.80
3756188.80	304.20	302.50	300.10	299.40	298.10	295.10	294.00	291.60	290.40
3755987.77	300.60	299.10	297.10	295.10	293.60	291.90	290.40	288.70	287.00
3755786.74	296.60	295.00	293.30	291.50	290.50	289.00	287.00	285.60	283.80
3755585.71	292.70	291.00	289.80	288.20	287.40	286.00	284.10	282.10	280.40
3755384.68	288.50	287.00	286.30	285.20	283.80	282.60	281.10	278.90	277.00
3755183.65	285.40	283.50	282.70	282.00	281.00	279.20	277.50	276.00	273.60
3754982.62	281.20	279.90	279.10	278.20	276.90	275.30	273.60	272.80	270.80
3754781.59	277.70	276.30	275.60	274.40	273.30	272.20	270.80	269.30	268.20

3754580.56	273.90	272.90	272.20	270.90	269.80	268.90	268.10	266.60	265.00
3754379.53	270.30	268.90	269.00	267.40	266.20	265.20	264.80	263.20	261.80
3754178.50	266.70	265.60	264.90	263.90	262.60	261.70	261.30	260.60	258.70
3753977.47	263.10	261.90	261.20	260.40	259.40	258.70	258.30	257.50	256.50
3753776.44	258.80	257.20	258.10	257.20	256.20	255.40	254.90	254.20	253.10
3753575.41	255.40	255.00	254.70	253.90	252.70	251.50	251.10	250.80	249.80
3753374.38	252.40	251.00	251.50	250.60	249.40	248.50	247.90	247.10	246.50
3753173.35	248.70	247.70	247.50	247.20	246.20	244.90	244.90	243.20	243.20

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	545618.32	545825.42	546032.52
3757193.95	305.20	303.50	302.40
3756992.92	301.80	299.30	297.30
3756791.89	299.30	295.70	293.00
3756590.86	295.30	292.70	289.80
3756389.83	292.00	289.30	286.90
3756188.80	288.70	286.00	283.80
3755987.77	285.30	283.00	280.30
3755786.74	281.80	280.10	277.70
3755585.71	279.00	277.10	275.20
3755384.68	275.70	274.00	272.10
3755183.65	272.50	270.70	269.20
3754982.62	269.30	267.80	265.80
3754781.59	266.30	264.80	262.90
3754580.56	263.50	262.10	260.40
3754379.53	260.90	259.40	258.00
3754178.50	258.30	256.90	256.20
3753977.47	255.80	254.20	252.60
3753776.44	252.50	251.20	249.60
3753575.41	249.30	248.00	246.70
3753374.38	246.00	244.70	243.60
3753173.35	242.90	241.60	240.50

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)

(METERS)

```
    ( 544500.6, 3754666.1,     271.7,     271.7,       0.0);        ( 544584.3, 3754650.7,     271.0,     271.0,       0.0);
    ( 544743.7, 3754712.4,     271.3,     271.3,       0.0);        ( 544823.4, 3754797.3,     272.3,     272.3,       0.0);
    ( 543275.5, 3754553.0,     276.5,     276.5,       0.0);        ( 542202.5, 3753909.1,     268.2,     268.2,       0.0);
    ( 542020.5, 3753897.7,     268.8,     268.8,       0.0);        ( 542046.1, 3753764.4,     265.1,     265.1,       0.0);
    ( 544597.4, 3754047.3,     260.5,     260.5,       0.0);        ( 545870.8, 3753922.6,     253.0,     253.0,       0.0);
    ( 543677.7, 3756399.9,     308.6,     308.6,       0.0);        ( 544963.5, 3756388.6,     297.5,     297.5,       0.0);
    ( 545339.0, 3756356.7,     294.1,     294.1,       0.0);
```


* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
L0050773	543961.5	3755183.6	-0.49
L0050774	543961.5	3755183.6	-1.50

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

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1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54,   3.09,   5.14,   8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

  Surface file: ..\DesertHotSpringsAirportADJU\KTRM_V9_ADJU\KTRM_v9.SFC   Met Version: 16216
  Profile file: ..\..\..\..\..\Dropbox\Kunzman\Projects\6627 DHS 109\HRA\KTRM_V9_ADJU\KTRM_v9.PF
  Surface format: FREE
  Profile format: FREE
  Surface station no.:   3104   Upper air station no.:   3190
                Name: UNKNOWN   Name: UNKNOWN
                Year: 2012   Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-7.8	0.118	-9.000	-9.000	-999.	98.	19.4	0.08	1.91	1.00	1.59	77.	10.1	278.8	2.0
12	01	01	1	02	-15.8	0.171	-9.000	-9.000	-999.	169.	32.1	0.08	1.91	1.00	2.23	288.	10.1	277.5	2.0
12	01	01	1	03	-16.9	0.177	-9.000	-9.000	-999.	178.	34.3	0.08	1.91	1.00	2.30	325.	10.1	278.8	2.0
12	01	01	1	04	-3.0	0.076	-9.000	-9.000	-999.	56.	13.4	0.08	1.91	1.00	0.94	321.	10.1	275.4	2.0
12	01	01	1	05	-4.7	0.092	-9.000	-9.000	-999.	67.	15.0	0.08	1.91	1.00	1.23	342.	10.1	274.2	2.0
12	01	01	1	06	-10.7	0.139	-9.000	-9.000	-999.	124.	22.8	0.08	1.91	1.00	1.84	309.	10.1	274.9	2.0
12	01	01	1	07	-18.8	0.186	-9.000	-9.000	-999.	193.	38.2	0.08	1.91	1.00	2.42	338.	10.1	277.0	2.0
12	01	01	1	08	-11.5	0.179	-9.000	-9.000	-999.	182.	45.7	0.08	1.91	0.49	2.30	343.	10.1	282.5	2.0
12	01	01	1	09	44.9	0.190	0.372	0.007	42.	198.	-13.9	0.08	1.91	0.30	1.86	334.	10.1	288.8	2.0
12	01	01	1	10	109.3	0.237	0.720	0.006	125.	278.	-11.2	0.08	1.91	0.23	2.27	333.	10.1	293.8	2.0
12	01	01	1	11	153.1	0.246	1.122	0.005	338.	293.	-8.9	0.08	1.91	0.21	2.28	348.	10.1	297.0	2.0
12	01	01	1	12	173.2	0.204	1.424	0.005	612.	222.	-4.5	0.08	1.91	0.20	1.72	322.	10.1	298.8	2.0
12	01	01	1	13	169.9	0.156	1.670	0.005	1005.	148.	-2.0	0.08	1.91	0.20	1.14	351.	10.1	300.4	2.0
12	01	01	1	14	142.4	0.144	1.714	0.005	1296.	131.	-1.9	0.08	1.91	0.22	1.04	329.	10.1	300.9	2.0
12	01	01	1	15	92.8	0.142	1.542	0.005	1447.	129.	-2.8	0.08	1.91	0.25	1.11	316.	10.1	301.4	2.0
12	01	01	1	16	24.5	0.122	0.995	0.005	1469.	102.	-6.8	0.08	1.91	0.35	1.09	301.	10.1	300.4	2.0
12	01	01	1	17	-3.0	0.077	-9.000	-9.000	-999.	51.	13.7	0.08	1.91	0.65	0.99	209.	10.1	292.0	2.0
12	01	01	1	18	-11.9	0.149	-9.000	-9.000	-999.	138.	25.2	0.08	1.91	1.00	1.96	149.	10.1	286.4	2.0
12	01	01	1	19	-6.4	0.107	-9.000	-9.000	-999.	85.	17.7	0.08	1.91	1.00	1.45	31.	10.1	284.9	2.0
12	01	01	1	20	-15.7	0.171	-9.000	-9.000	-999.	169.	32.1	0.08	1.91	1.00	2.23	327.	10.1	283.1	2.0
12	01	01	1	21	-8.3	0.122	-9.000	-9.000	-999.	103.	20.2	0.08	1.91	1.00	1.64	347.	10.1	282.0	2.0
12	01	01	1	22	-7.9	0.119	-9.000	-9.000	-999.	99.	19.6	0.08	1.91	1.00	1.60	316.	10.1	279.2	2.0
12	01	01	1	23	-5.3	0.097	-9.000	-9.000	-999.	73.	15.9	0.08	1.91	1.00	1.31	325.	10.1	278.1	2.0
12	01	01	1	24	-9.4	0.130	-9.000	-9.000	-999.	113.	21.5	0.08	1.91	1.00	1.74	304.	10.1	278.8	2.0

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	10.1	1	77.	1.59	278.8	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                          *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL   ***
                              INCLUDING SOURCE(S):   L0050260   , L0050261   , L0050262   , L0050263   , L0050264   ,
               L0050265   , L0050266   , L0050267   , L0050268   , L0050269   , L0050270   , L0050271   , L0050272   ,
               L0050273   , L0050274   , L0050275   , L0050276   , L0050277   , L0050278   , L0050279   , L0050280   ,
               L0050281   , L0050282   , L0050283   , L0050284   , L0050285   , L0050286   , L0050287   , . . .   ,

                               *** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART ***

                                    ** CONC OF DPM   IN MICROGRAMS/M**3   **

Y-COORD (METERS)	X-COORD (METERS)								
	541890.52	542097.62	542304.72	542511.82	542718.92	542926.02	543133.12	543340.22	543547.32
3757193.95	0.00011	0.00013	0.00015	0.00018	0.00020	0.00021	0.00023	0.00026	0.00037
3756992.92	0.00012	0.00014	0.00017	0.00019	0.00022	0.00025	0.00028	0.00032	0.00045
3756791.89	0.00012	0.00015	0.00018	0.00021	0.00025	0.00030	0.00035	0.00040	0.00055
3756590.86	0.00013	0.00015	0.00018	0.00023	0.00028	0.00034	0.00043	0.00051	0.00069
3756389.83	0.00013	0.00016	0.00019	0.00024	0.00030	0.00039	0.00051	0.00064	0.00089
3756188.80	0.00014	0.00016	0.00020	0.00025	0.00032	0.00042	0.00058	0.00080	0.00117
3755987.77	0.00014	0.00017	0.00021	0.00026	0.00034	0.00045	0.00064	0.00095	0.00153
3755786.74	0.00014	0.00017	0.00021	0.00027	0.00035	0.00047	0.00067	0.00106	0.00203
3755585.71	0.00015	0.00018	0.00022	0.00027	0.00036	0.00049	0.00071	0.00112	0.00241
3755384.68	0.00016	0.00019	0.00023	0.00029	0.00037	0.00051	0.00073	0.00116	0.00243
3755183.65	0.00017	0.00021	0.00025	0.00031	0.00040	0.00054	0.00076	0.00117	0.00236
3754982.62	0.00019	0.00023	0.00027	0.00033	0.00042	0.00056	0.00076	0.00116	0.00225
3754781.59	0.00021	0.00025	0.00030	0.00036	0.00045	0.00057	0.00077	0.00112	0.00211
3754580.56	0.00024	0.00028	0.00033	0.00039	0.00047	0.00058	0.00075	0.00107	0.00199
3754379.53	0.00028	0.00033	0.00038	0.00043	0.00050	0.00060	0.00074	0.00103	0.00191
3754178.50	0.00036	0.00045	0.00052	0.00058	0.00064	0.00072	0.00084	0.00107	0.00188
3753977.47	0.00050	0.00153	0.00165	0.00171	0.00177	0.00184	0.00195	0.00213	0.00266
3753776.44	0.00058	0.00169	0.00108	0.00109	0.00112	0.00117	0.00125	0.00137	0.00160
3753575.41	0.00058	0.00159	0.00069	0.00065	0.00067	0.00071	0.00077	0.00086	0.00101
3753374.38	0.00054	0.00151	0.00059	0.00051	0.00051	0.00054	0.00060	0.00067	0.00077
3753173.35	0.00041	0.00133	0.00052	0.00043	0.00043	0.00045	0.00049	0.00055	0.00063

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                          *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL   ***
                              INCLUDING SOURCE(S):   L0050260   , L0050261   , L0050262   , L0050263   , L0050264   ,
               L0050265   , L0050266   , L0050267   , L0050268   , L0050269   , L0050270   , L0050271   , L0050272   ,
               L0050273   , L0050274   , L0050275   , L0050276   , L0050277   , L0050278   , L0050279   , L0050280   ,
               L0050281   , L0050282   , L0050283   , L0050284   , L0050285   , L0050286   , L0050287   , . . .   ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	543754.42	543961.52	544168.62	544375.72	544582.82	544789.92	544997.02	545204.12	545411.22
3757193.95	0.00050	0.00025	0.00022	0.00020	0.00019	0.00018	0.00017	0.00015	0.00014
3756992.92	0.00080	0.00034	0.00028	0.00025	0.00023	0.00023	0.00021	0.00019	0.00018
3756791.89	0.00095	0.00046	0.00038	0.00034	0.00031	0.00028	0.00027	0.00025	0.00023
3756590.86	0.00115	0.00064	0.00054	0.00049	0.00044	0.00041	0.00038	0.00035	0.00033
3756389.83	0.00223	0.00176	0.00169	0.00166	0.00169	0.00175	0.00179	0.00163	0.00149
3756188.80	0.00215	0.00125	0.00107	0.00093	0.00082	0.00074	0.00067	0.00062	0.00058
3755987.77	0.00266	0.00171	0.00143	0.00117	0.00095	0.00078	0.00066	0.00057	0.00051
3755786.74	0.00391	0.00315	0.00272	0.00193	0.00134	0.00098	0.00077	0.00063	0.00054
3755585.71	0.01066	0.01069	0.01012	0.00576	0.00215	0.00133	0.00095	0.00073	0.00059
3755384.68	0.00670	0.01940	0.01552	0.02930	0.00359	0.00184	0.00117	0.00084	0.00065
3755183.65	0.00581	0.05279	0.02032	0.03558	0.00584	0.00252	0.00144	0.00097	0.00072
3754982.62	0.00506	0.00709	0.02564	0.03835	0.00722	0.00318	0.00172	0.00111	0.00080
3754781.59	0.00449	0.00465	0.01334	0.03890	0.00718	0.00354	0.00198	0.00127	0.00090
3754580.56	0.00405	0.00327	0.00572	0.00786	0.00609	0.00352	0.00216	0.00142	0.00101
3754379.53	0.00375	0.00258	0.00342	0.00439	0.00429	0.00317	0.00220	0.00155	0.00114
3754178.50	0.00359	0.00225	0.00252	0.00300	0.00312	0.00275	0.00218	0.00168	0.00130
3753977.47	0.00405	0.00286	0.00295	0.00321	0.00336	0.00327	0.00299	0.00265	0.00236
3753776.44	0.00211	0.00199	0.00205	0.00218	0.00228	0.00227	0.00212	0.00189	0.00165
3753575.41	0.00123	0.00139	0.00147	0.00155	0.00163	0.00164	0.00158	0.00144	0.00127
3753374.38	0.00091	0.00105	0.00116	0.00123	0.00129	0.00132	0.00129	0.00121	0.00110
3753173.35	0.00073	0.00084	0.00093	0.00101	0.00106	0.00109	0.00109	0.00104	0.00097

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0050260 , L0050261 , L0050262 , L0050263 , L0050264 ,
L0050265 , L0050266 , L0050267 , L0050268 , L0050269 , L0050270 , L0050271 , L0050272 ,
L0050273 , L0050274 , L0050275 , L0050276 , L0050277 , L0050278 , L0050279 , L0050280 ,
L0050281 , L0050282 , L0050283 , L0050284 , L0050285 , L0050286 , L0050287 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	545618.32	545825.42	546032.52
3757193.95	0.00014	0.00013	0.00012

```
 3756992.92 |       0.00017      0.00015      0.00014
 3756791.89 |       0.00021      0.00020      0.00018
 3756590.86 |       0.00031      0.00029      0.00024
 3756389.83 |       0.00137      0.00145      0.00147
 3756188.80 |       0.00054      0.00050      0.00044
 3755987.77 |       0.00046      0.00041      0.00036
 3755786.74 |       0.00046      0.00040      0.00035
 3755585.71 |       0.00049      0.00042      0.00036
 3755384.68 |       0.00052      0.00044      0.00037
 3755183.65 |       0.00057      0.00046      0.00039
 3754982.62 |       0.00062      0.00050      0.00041
 3754781.59 |       0.00068      0.00054      0.00044
 3754580.56 |       0.00076      0.00060      0.00048
 3754379.53 |       0.00087      0.00067      0.00053
 3754178.50 |       0.00103      0.00082      0.00062
 3753977.47 |       0.00213      0.00193      0.00140
 3753776.44 |       0.00144      0.00125      0.00102
 3753575.41 |       0.00111      0.00095      0.00079
 3753374.38 |       0.00097      0.00084      0.00072
 3753173.35 |       0.00087      0.00077      0.00067
```


*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL   ***
    INCLUDING SOURCE(S):   L0050260   , L0050261   , L0050262   , L0050263   , L0050264   ,
L0050265   , L0050266   , L0050267   , L0050268   , L0050269   , L0050270   , L0050271   , L0050272   ,
L0050273   , L0050274   , L0050275   , L0050276   , L0050277   , L0050278   , L0050279   , L0050280   ,
L0050281   , L0050282   , L0050283   , L0050284   , L0050285   , L0050286   , L0050287   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM   IN MICROGRAMS/M**3   **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
544500.58	3754666.10	0.00880	544584.26	3754650.71	0.00656
544743.72	3754712.43	0.00412	544823.38	3754797.27	0.00318
543275.51	3754552.99	0.00094	542202.53	3753909.06	0.00491
542020.54	3753897.71	0.00320	542046.12	3753764.40	0.00681
544597.39	3754047.31	0.00286	545870.84	3753922.64	0.00489
543677.72	3756399.86	0.00350	544963.53	3756388.62	0.00191
545339.03	3756356.66	0.00258			

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.05279 AT (543961.52, 3755183.65, 283.50, 283.50, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.03890 AT (544375.72, 3754781.59, 274.40, 274.40, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.03835 AT (544375.72, 3754982.62, 278.20, 278.20, 0.00)	GC	UCART1
	4TH HIGHEST VALUE IS	0.03558 AT (544375.72, 3755183.65, 282.00, 282.00, 0.00)	GC	UCART1
	5TH HIGHEST VALUE IS	0.02930 AT (544375.72, 3755384.68, 285.20, 285.20, 0.00)	GC	UCART1
	6TH HIGHEST VALUE IS	0.02564 AT (544168.62, 3754982.62, 279.10, 279.10, 0.00)	GC	UCART1
	7TH HIGHEST VALUE IS	0.02032 AT (544168.62, 3755183.65, 282.70, 282.70, 0.00)	GC	UCART1
	8TH HIGHEST VALUE IS	0.01940 AT (543961.52, 3755384.68, 287.00, 287.00, 0.00)	GC	UCART1
	9TH HIGHEST VALUE IS	0.01552 AT (544168.62, 3755384.68, 286.30, 286.30, 0.00)	GC	UCART1
	10TH HIGHEST VALUE IS	0.01334 AT (544168.62, 3754781.59, 275.60, 275.60, 0.00)	GC	UCART1

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 36 Warning Message(s)
A Total of 1124 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 595 Calm Hours Identified

A Total of 529 Missing Hours Identified (1.21 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********

```
SO W320    4337        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    4338        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    4339        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    4340        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5953        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5954        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5955        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5956        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5957        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5958        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5959        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5960        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5961        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5962        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5963        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5964        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5965        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5966        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5967        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5968        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5969        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5970        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5971        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5972        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5973        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5974        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5975        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5976        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5977        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5978        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5979        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5980        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5981        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
ME W340    9231       PRBASE: Possible Error in PROFBASE Input:  Value is < 0        PROFBASE
ME W186    9232       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used           0.50
ME W187    9232       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ************************************
   *** AERMOD Finishes Successfully ***
   ************************************
```

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.6.5
** Lakes Environmental Software Inc.
** Date: 5/22/2019
** File: C:\Users\Catherine Howe\Desktop\DHS\Higher Cultivation\HRA\6627b DHS 109 - 2 yr\6627b DHS 109 - 2 yr.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Lakes\AERMOD View\6627 DHS 109 - 2yr
   TITLETWO DHS 109 DPM Concentrations - 2 yr
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 2189641 Riverside_County
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "6627b DHS 109 - 2 yr.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC 15th Ave Eastern Project Driveway to Little Morongo
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000388
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 8
** 544362.703, 3755555.251, 288.03, 0.00, 1.70
** 543931.522, 3755552.148, 290.67, 0.00, 1.70
** 543892.903, 3755554.099, 290.96, 0.00, 1.70
```

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** 543862.439, 3755566.497, 291.23, 0.00, 1.70
** 543816.035, 3755601.212, 292.60, 0.00, 1.70
** 543777.753, 3755620.310, 293.07, 0.00, 1.70
** 543741.619, 3755630.849, 293.68, 0.00, 1.70
** 543688.020, 3755631.150, 294.01, 0.00, 1.70
** ------------------------------------------------------------------
   LOCATION L0037236     VOLUME   544360.874 3755555.238 288.07
   LOCATION L0037237     VOLUME   544357.217 3755555.212 288.10
   LOCATION L0037238     VOLUME   544353.559 3755555.185 288.14
   LOCATION L0037239     VOLUME   544349.902 3755555.159 288.17
   LOCATION L0037240     VOLUME   544346.244 3755555.133 288.21
   LOCATION L0037241     VOLUME   544342.587 3755555.107 288.23
   LOCATION L0037242     VOLUME   544338.929 3755555.080 288.25
   LOCATION L0037243     VOLUME   544335.272 3755555.054 288.27
   LOCATION L0037244     VOLUME   544331.614 3755555.028 288.29
   LOCATION L0037245     VOLUME   544327.957 3755555.001 288.31
   LOCATION L0037246     VOLUME   544324.299 3755554.975 288.33
   LOCATION L0037247     VOLUME   544320.642 3755554.949 288.35
   LOCATION L0037248     VOLUME   544316.984 3755554.922 288.38
   LOCATION L0037249     VOLUME   544313.327 3755554.896 288.41
   LOCATION L0037250     VOLUME   544309.669 3755554.870 288.44
   LOCATION L0037251     VOLUME   544306.012 3755554.843 288.47
   LOCATION L0037252     VOLUME   544302.354 3755554.817 288.50
   LOCATION L0037253     VOLUME   544298.697 3755554.791 288.52
   LOCATION L0037254     VOLUME   544295.039 3755554.764 288.55
   LOCATION L0037255     VOLUME   544291.382 3755554.738 288.57
   LOCATION L0037256     VOLUME   544287.724 3755554.712 288.60
   LOCATION L0037257     VOLUME   544284.067 3755554.685 288.62
   LOCATION L0037258     VOLUME   544280.409 3755554.659 288.64
   LOCATION L0037259     VOLUME   544276.752 3755554.633 288.66
   LOCATION L0037260     VOLUME   544273.094 3755554.606 288.68
   LOCATION L0037261     VOLUME   544269.437 3755554.580 288.70
   LOCATION L0037262     VOLUME   544265.779 3755554.554 288.73
   LOCATION L0037263     VOLUME   544262.122 3755554.527 288.75
   LOCATION L0037264     VOLUME   544258.464 3755554.501 288.77
   LOCATION L0037265     VOLUME   544254.807 3755554.475 288.79
   LOCATION L0037266     VOLUME   544251.149 3755554.449 288.81
   LOCATION L0037267     VOLUME   544247.492 3755554.422 288.84
   LOCATION L0037268     VOLUME   544243.834 3755554.396 288.86
   LOCATION L0037269     VOLUME   544240.177 3755554.370 288.88
   LOCATION L0037270     VOLUME   544236.519 3755554.343 288.90
   LOCATION L0037271     VOLUME   544232.862 3755554.317 288.92
   LOCATION L0037272     VOLUME   544229.204 3755554.291 288.95
   LOCATION L0037273     VOLUME   544225.547 3755554.264 288.97
   LOCATION L0037274     VOLUME   544221.889 3755554.238 288.99
   LOCATION L0037275     VOLUME   544218.232 3755554.212 289.01
   LOCATION L0037276     VOLUME   544214.574 3755554.185 289.03
   LOCATION L0037277     VOLUME   544210.917 3755554.159 289.05
   LOCATION L0037278     VOLUME   544207.259 3755554.133 289.07
   LOCATION L0037279     VOLUME   544203.602 3755554.106 289.09
   LOCATION L0037280     VOLUME   544199.944 3755554.080 289.11
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LOCATION L0037281     VOLUME   544196.287 3755554.054 289.13
LOCATION L0037282     VOLUME   544192.629 3755554.027 289.15
LOCATION L0037283     VOLUME   544188.972 3755554.001 289.17
LOCATION L0037284     VOLUME   544185.314 3755553.975 289.20
LOCATION L0037285     VOLUME   544181.656 3755553.948 289.22
LOCATION L0037286     VOLUME   544177.999 3755553.922 289.24
LOCATION L0037287     VOLUME   544174.341 3755553.896 289.26
LOCATION L0037288     VOLUME   544170.684 3755553.869 289.29
LOCATION L0037289     VOLUME   544167.026 3755553.843 289.31
LOCATION L0037290     VOLUME   544163.369 3755553.817 289.33
LOCATION L0037291     VOLUME   544159.711 3755553.791 289.35
LOCATION L0037292     VOLUME   544156.054 3755553.764 289.37
LOCATION L0037293     VOLUME   544152.396 3755553.738 289.39
LOCATION L0037294     VOLUME   544148.739 3755553.712 289.41
LOCATION L0037295     VOLUME   544145.081 3755553.685 289.43
LOCATION L0037296     VOLUME   544141.424 3755553.659 289.45
LOCATION L0037297     VOLUME   544137.766 3755553.633 289.47
LOCATION L0037298     VOLUME   544134.109 3755553.606 289.48
LOCATION L0037299     VOLUME   544130.451 3755553.580 289.49
LOCATION L0037300     VOLUME   544126.794 3755553.554 289.51
LOCATION L0037301     VOLUME   544123.136 3755553.527 289.52
LOCATION L0037302     VOLUME   544119.479 3755553.501 289.54
LOCATION L0037303     VOLUME   544115.821 3755553.475 289.55
LOCATION L0037304     VOLUME   544112.164 3755553.448 289.57
LOCATION L0037305     VOLUME   544108.506 3755553.422 289.58
LOCATION L0037306     VOLUME   544104.849 3755553.396 289.60
LOCATION L0037307     VOLUME   544101.191 3755553.369 289.62
LOCATION L0037308     VOLUME   544097.534 3755553.343 289.63
LOCATION L0037309     VOLUME   544093.876 3755553.317 289.65
LOCATION L0037310     VOLUME   544090.219 3755553.290 289.66
LOCATION L0037311     VOLUME   544086.561 3755553.264 289.68
LOCATION L0037312     VOLUME   544082.904 3755553.238 289.71
LOCATION L0037313     VOLUME   544079.246 3755553.211 289.73
LOCATION L0037314     VOLUME   544075.589 3755553.185 289.75
LOCATION L0037315     VOLUME   544071.931 3755553.159 289.77
LOCATION L0037316     VOLUME   544068.274 3755553.132 289.80
LOCATION L0037317     VOLUME   544064.616 3755553.106 289.82
LOCATION L0037318     VOLUME   544060.959 3755553.080 289.84
LOCATION L0037319     VOLUME   544057.301 3755553.054 289.85
LOCATION L0037320     VOLUME   544053.644 3755553.027 289.87
LOCATION L0037321     VOLUME   544049.986 3755553.001 289.88
LOCATION L0037322     VOLUME   544046.329 3755552.975 289.90
LOCATION L0037323     VOLUME   544042.671 3755552.948 289.91
LOCATION L0037324     VOLUME   544039.014 3755552.922 289.93
LOCATION L0037325     VOLUME   544035.356 3755552.896 289.95
LOCATION L0037326     VOLUME   544031.699 3755552.869 289.98
LOCATION L0037327     VOLUME   544028.041 3755552.843 290.00
LOCATION L0037328     VOLUME   544024.384 3755552.817 290.03
LOCATION L0037329     VOLUME   544020.726 3755552.790 290.05
LOCATION L0037330     VOLUME   544017.069 3755552.764 290.08
LOCATION L0037331     VOLUME   544013.411 3755552.738 290.10
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LOCATION L0037332     VOLUME   544009.754 3755552.711 290.12
LOCATION L0037333     VOLUME   544006.096 3755552.685 290.15
LOCATION L0037334     VOLUME   544002.439 3755552.659 290.17
LOCATION L0037335     VOLUME   543998.781 3755552.632 290.19
LOCATION L0037336     VOLUME   543995.124 3755552.606 290.21
LOCATION L0037337     VOLUME   543991.466 3755552.580 290.24
LOCATION L0037338     VOLUME   543987.809 3755552.553 290.26
LOCATION L0037339     VOLUME   543984.151 3755552.527 290.27
LOCATION L0037340     VOLUME   543980.494 3755552.501 290.29
LOCATION L0037341     VOLUME   543976.836 3755552.474 290.30
LOCATION L0037342     VOLUME   543973.179 3755552.448 290.31
LOCATION L0037343     VOLUME   543969.521 3755552.422 290.32
LOCATION L0037344     VOLUME   543965.864 3755552.396 290.33
LOCATION L0037345     VOLUME   543962.206 3755552.369 290.34
LOCATION L0037346     VOLUME   543958.549 3755552.343 290.37
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   LOCATION L0037423     VOLUME   543696.943 3755631.100 293.91
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
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** Configuration = Adjacent
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** Elevated
** Vertical Dimension = 3.28
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** End of LINE VOLUME Source ID = SLINE3
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** Line Source Represented by Adjacent Volume Sources
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** DESCRSRC On-site along Street B/Street F
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** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000575
** Elevated
** Vertical Dimension = 3.28
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** LINE VOLUME Source ID = SLINE5
** DESCRSRC Little Morongo from 15th Ave to Dillon Rd
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000654
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
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** End of LINE VOLUME Source ID = SLINE5
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC Dillon Rd from Little Morongo to Indian Canyon Dr
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000356
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
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LOCATION L0039676     VOLUME   542871.785 3753930.479 264.85
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LOCATION L0039678     VOLUME   542864.470 3753930.462 264.90
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LOCATION L0039780     VOLUME   542491.395 3753929.600 267.15
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LOCATION L0039789     VOLUME   542458.477 3753929.524 267.32
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LOCATION L0039791     VOLUME   542451.162 3753929.507 267.35
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LOCATION L0039880     VOLUME   542125.636 3753928.755 268.83
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LOCATION L0039882     VOLUME   542118.321 3753928.738 268.85
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   LOCATION L0039897     VOLUME   542063.457 3753928.611 269.16
   LOCATION L0039898     VOLUME   542059.800 3753928.603 269.19
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   LOCATION L0039901     VOLUME   542048.827 3753928.578 269.29
   LOCATION L0039902     VOLUME   542045.169 3753928.569 269.33
   LOCATION L0039903     VOLUME   542041.512 3753928.561 269.36
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** End of LINE VOLUME Source ID = SLINE6
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE7
** DESCRSRC Indian Canyon south of Dillon Rd
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000139
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
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** 542030.404, 3753120.751, 249.93, 0.00, 1.70
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LOCATION L0039971     VOLUME   542035.331 3753681.938 263.12
LOCATION L0039972     VOLUME   542035.299 3753678.281 263.03
LOCATION L0039973     VOLUME   542035.267 3753674.623 262.95
LOCATION L0039974     VOLUME   542035.235 3753670.966 262.86
LOCATION L0039975     VOLUME   542035.203 3753667.308 262.78
LOCATION L0039976     VOLUME   542035.171 3753663.651 262.70
LOCATION L0039977     VOLUME   542035.139 3753659.993 262.62
LOCATION L0039978     VOLUME   542035.107 3753656.336 262.54
LOCATION L0039979     VOLUME   542035.075 3753652.679 262.46
LOCATION L0039980     VOLUME   542035.042 3753649.021 262.38
LOCATION L0039981     VOLUME   542035.010 3753645.364 262.30
LOCATION L0039982     VOLUME   542034.978 3753641.706 262.22
LOCATION L0039983     VOLUME   542034.946 3753638.049 262.15
LOCATION L0039984     VOLUME   542034.914 3753634.391 262.07
LOCATION L0039985     VOLUME   542034.882 3753630.734 262.00
LOCATION L0039986     VOLUME   542034.850 3753627.076 261.92
LOCATION L0039987     VOLUME   542034.818 3753623.419 261.85
LOCATION L0039988     VOLUME   542034.786 3753619.761 261.77
LOCATION L0039989     VOLUME   542034.753 3753616.104 261.70
LOCATION L0039990     VOLUME   542034.721 3753612.447 261.63
LOCATION L0039991     VOLUME   542034.689 3753608.789 261.55
LOCATION L0039992     VOLUME   542034.657 3753605.132 261.47
LOCATION L0039993     VOLUME   542034.625 3753601.474 261.39
LOCATION L0039994     VOLUME   542034.593 3753597.817 261.31
LOCATION L0039995     VOLUME   542034.561 3753594.159 261.23
LOCATION L0039996     VOLUME   542034.529 3753590.502 261.15
LOCATION L0039997     VOLUME   542034.497 3753586.844 261.06
LOCATION L0039998     VOLUME   542034.464 3753583.187 260.98
LOCATION L0039999     VOLUME   542034.432 3753579.529 260.90
LOCATION L0040000     VOLUME   542034.400 3753575.872 260.83
LOCATION L0040001     VOLUME   542034.368 3753572.214 260.75
LOCATION L0040002     VOLUME   542034.336 3753568.557 260.67
LOCATION L0040003     VOLUME   542034.304 3753564.900 260.60
LOCATION L0040004     VOLUME   542034.272 3753561.242 260.52
LOCATION L0040005     VOLUME   542034.240 3753557.585 260.44
LOCATION L0040006     VOLUME   542034.208 3753553.927 260.37
LOCATION L0040007     VOLUME   542034.175 3753550.270 260.29
LOCATION L0040008     VOLUME   542034.143 3753546.612 260.21
LOCATION L0040009     VOLUME   542034.111 3753542.955 260.13
LOCATION L0040010     VOLUME   542034.079 3753539.297 260.05
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LOCATION L0040012     VOLUME   542034.015 3753531.982 259.89
LOCATION L0040013     VOLUME   542033.983 3753528.325 259.81
LOCATION L0040014     VOLUME   542033.951 3753524.667 259.73
LOCATION L0040015     VOLUME   542033.919 3753521.010 259.64
LOCATION L0040016     VOLUME   542033.886 3753517.353 259.56
LOCATION L0040017     VOLUME   542033.854 3753513.695 259.48
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LOCATION L0040019     VOLUME   542033.790 3753506.380 259.32
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LOCATION L0040023     VOLUME   542033.662 3753491.750 259.00
LOCATION L0040024     VOLUME   542033.630 3753488.093 258.92
LOCATION L0040025     VOLUME   542033.597 3753484.435 258.84
LOCATION L0040026     VOLUME   542033.565 3753480.778 258.75
LOCATION L0040027     VOLUME   542033.533 3753477.121 258.66
LOCATION L0040028     VOLUME   542033.501 3753473.463 258.58
LOCATION L0040029     VOLUME   542033.469 3753469.806 258.49
LOCATION L0040030     VOLUME   542033.437 3753466.148 258.41
LOCATION L0040031     VOLUME   542033.405 3753462.491 258.32
LOCATION L0040032     VOLUME   542033.373 3753458.833 258.24
LOCATION L0040033     VOLUME   542033.341 3753455.176 258.15
LOCATION L0040034     VOLUME   542033.308 3753451.518 258.06
LOCATION L0040035     VOLUME   542033.276 3753447.861 257.97
LOCATION L0040036     VOLUME   542033.244 3753444.203 257.89
LOCATION L0040037     VOLUME   542033.212 3753440.546 257.80
LOCATION L0040038     VOLUME   542033.180 3753436.888 257.71
LOCATION L0040039     VOLUME   542033.148 3753433.231 257.63
LOCATION L0040040     VOLUME   542033.116 3753429.574 257.54
LOCATION L0040041     VOLUME   542033.084 3753425.916 257.45
LOCATION L0040042     VOLUME   542033.052 3753422.259 257.36
LOCATION L0040043     VOLUME   542033.019 3753418.601 257.27
LOCATION L0040044     VOLUME   542032.987 3753414.944 257.17
LOCATION L0040045     VOLUME   542032.955 3753411.286 257.08
LOCATION L0040046     VOLUME   542032.923 3753407.629 256.99
LOCATION L0040047     VOLUME   542032.891 3753403.971 256.90
LOCATION L0040048     VOLUME   542032.859 3753400.314 256.80
LOCATION L0040049     VOLUME   542032.827 3753396.656 256.71
LOCATION L0040050     VOLUME   542032.795 3753392.999 256.62
LOCATION L0040051     VOLUME   542032.763 3753389.342 256.54
LOCATION L0040052     VOLUME   542032.730 3753385.684 256.46
LOCATION L0040053     VOLUME   542032.698 3753382.027 256.38
LOCATION L0040054     VOLUME   542032.666 3753378.369 256.30
LOCATION L0040055     VOLUME   542032.634 3753374.712 256.21
LOCATION L0040056     VOLUME   542032.602 3753371.054 256.13
LOCATION L0040057     VOLUME   542032.570 3753367.397 256.05
LOCATION L0040058     VOLUME   542032.538 3753363.739 255.97
LOCATION L0040059     VOLUME   542032.506 3753360.082 255.87
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LOCATION L0040061     VOLUME   542032.441 3753352.767 255.67
LOCATION L0040062     VOLUME   542032.409 3753349.109 255.57
LOCATION L0040063     VOLUME   542032.377 3753345.452 255.46
LOCATION L0040064     VOLUME   542032.345 3753341.795 255.36
LOCATION L0040065     VOLUME   542032.313 3753338.137 255.26
LOCATION L0040066     VOLUME   542032.281 3753334.480 255.16
LOCATION L0040067     VOLUME   542032.249 3753330.822 255.06
LOCATION L0040068     VOLUME   542032.217 3753327.165 254.96
LOCATION L0040069     VOLUME   542032.185 3753323.507 254.86
LOCATION L0040070     VOLUME   542032.152 3753319.850 254.76
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LOCATION L0040072     VOLUME   542032.088 3753312.535 254.56
LOCATION L0040073     VOLUME   542032.056 3753308.877 254.46
LOCATION L0040074     VOLUME   542032.024 3753305.220 254.35
LOCATION L0040075     VOLUME   542031.992 3753301.562 254.25
LOCATION L0040076     VOLUME   542031.960 3753297.905 254.17
LOCATION L0040077     VOLUME   542031.928 3753294.248 254.08
LOCATION L0040078     VOLUME   542031.896 3753290.590 253.99
LOCATION L0040079     VOLUME   542031.863 3753286.933 253.90
LOCATION L0040080     VOLUME   542031.831 3753283.275 253.81
LOCATION L0040081     VOLUME   542031.799 3753279.618 253.72
LOCATION L0040082     VOLUME   542031.767 3753275.960 253.63
LOCATION L0040083     VOLUME   542031.735 3753272.303 253.54
LOCATION L0040084     VOLUME   542031.703 3753268.645 253.46
LOCATION L0040085     VOLUME   542031.671 3753264.988 253.38
LOCATION L0040086     VOLUME   542031.639 3753261.330 253.29
LOCATION L0040087     VOLUME   542031.607 3753257.673 253.21
LOCATION L0040088     VOLUME   542031.574 3753254.016 253.13
LOCATION L0040089     VOLUME   542031.542 3753250.358 253.05
LOCATION L0040090     VOLUME   542031.510 3753246.701 252.96
LOCATION L0040091     VOLUME   542031.478 3753243.043 252.88
LOCATION L0040092     VOLUME   542031.446 3753239.386 252.80
LOCATION L0040093     VOLUME   542031.414 3753235.728 252.73
LOCATION L0040094     VOLUME   542031.382 3753232.071 252.65
LOCATION L0040095     VOLUME   542031.350 3753228.413 252.58
LOCATION L0040096     VOLUME   542031.318 3753224.756 252.51
LOCATION L0040097     VOLUME   542031.285 3753221.098 252.43
LOCATION L0040098     VOLUME   542031.253 3753217.441 252.36
LOCATION L0040099     VOLUME   542031.221 3753213.783 252.29
LOCATION L0040100     VOLUME   542031.189 3753210.126 252.21
LOCATION L0040101     VOLUME   542031.157 3753206.469 252.14
LOCATION L0040102     VOLUME   542031.125 3753202.811 252.06
LOCATION L0040103     VOLUME   542031.093 3753199.154 251.99
LOCATION L0040104     VOLUME   542031.061 3753195.496 251.91
LOCATION L0040105     VOLUME   542031.029 3753191.839 251.83
LOCATION L0040106     VOLUME   542030.996 3753188.181 251.76
LOCATION L0040107     VOLUME   542030.964 3753184.524 251.68
LOCATION L0040108     VOLUME   542030.932 3753180.866 251.60
LOCATION L0040109     VOLUME   542030.900 3753177.209 251.52
LOCATION L0040110     VOLUME   542030.868 3753173.551 251.44
LOCATION L0040111     VOLUME   542030.836 3753169.894 251.35
LOCATION L0040112     VOLUME   542030.804 3753166.236 251.27
LOCATION L0040113     VOLUME   542030.772 3753162.579 251.19
LOCATION L0040114     VOLUME   542030.740 3753158.922 251.10
LOCATION L0040115     VOLUME   542030.707 3753155.264 251.02
LOCATION L0040116     VOLUME   542030.675 3753151.607 250.94
LOCATION L0040117     VOLUME   542030.643 3753147.949 250.85
LOCATION L0040118     VOLUME   542030.611 3753144.292 250.75
LOCATION L0040119     VOLUME   542030.579 3753140.634 250.64
LOCATION L0040120     VOLUME   542030.547 3753136.977 250.54
LOCATION L0040121     VOLUME   542030.515 3753133.319 250.43
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   LOCATION L0040123     VOLUME   542030.451 3753126.004 250.22
   LOCATION L0040124     VOLUME   542030.418 3753122.347 250.11
** End of LINE VOLUME Source ID = SLINE7
   LOCATION STCK5        POINT      544098.081  3755457.037      287.930
** DESCRSRC Loading 2
   LOCATION STCK6        POINT      544228.210  3755457.220      287.390
   LOCATION STCK7        POINT      544288.730  3755456.950      287.040
   LOCATION STCK8        POINT      543964.090  3755374.250      286.830
   LOCATION STCK9        POINT      544038.290  3755339.920      285.950
   LOCATION STCK10       POINT      544095.710  3755341.430      285.760
   LOCATION STCK11       POINT      544222.780  3755337.360      285.250
   LOCATION STCK12       POINT      544287.620  3755338.410      284.960
   LOCATION STCK13       POINT      544383.950  3755371.980      284.940
   LOCATION STCK14       POINT      544385.650  3755307.270      283.900
   LOCATION STCK15       POINT      544039.120  3755242.560      283.550
   LOCATION STCK16       POINT      544102.120  3755240.860      283.580
   LOCATION STCK18       POINT      544221.320  3755240.860      283.510
   LOCATION STCK19       POINT      544286.030  3755242.560      283.350
   LOCATION STCK20       POINT      544163.430  3755195.730      282.910
   LOCATION STCK21       POINT      544235.800  3755196.580      282.760
   LOCATION STCK22       POINT      544091.910  3755163.380      282.380
   LOCATION STCK23       POINT      544292.840  3755160.820      281.970
   LOCATION STCK24       POINT      544383.320  3755192.490      282.170
   LOCATION STCK25       POINT      544382.470  3755120.120      280.940
   LOCATION STCK26       POINT      544167.160  3755002.480      279.520
   LOCATION STCK27       POINT      544222.260  3755001.480      279.290
   LOCATION STCK28       POINT      544294.390  3755041.550      279.760
   LOCATION STCK29       POINT      544379.530  3755001.480      278.540
   LOCATION STCK30       POINT      544379.730  3754935.820      277.210
   LOCATION STCK31       POINT      544291.130  3754901.370      277.030
   LOCATION STCK32       POINT      544165.610  3754937.670      278.260
   LOCATION STCK33       POINT      544235.140  3754937.050      277.970
   LOCATION STCK34       POINT      544317.590  3754820.760      275.350
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE11
** DESCRSRC On-site Along Street E
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000188
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
** 543899.882, 3755432.329, 288.32, 0.00, 1.70
** 544356.428, 3755432.147, 286.24, 0.00, 1.70
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   LOCATION L0040778     VOLUME   543905.369 3755432.327 288.26
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LOCATION L0040779     VOLUME   543909.026 3755432.325 288.23
LOCATION L0040780     VOLUME   543912.684 3755432.324 288.20
LOCATION L0040781     VOLUME   543916.341 3755432.323 288.16
LOCATION L0040782     VOLUME   543919.999 3755432.321 288.12
LOCATION L0040783     VOLUME   543923.657 3755432.320 288.09
LOCATION L0040784     VOLUME   543927.314 3755432.318 288.05
LOCATION L0040785     VOLUME   543930.972 3755432.317 288.01
LOCATION L0040786     VOLUME   543934.629 3755432.315 287.98
LOCATION L0040787     VOLUME   543938.287 3755432.314 287.94
LOCATION L0040788     VOLUME   543941.945 3755432.312 287.91
LOCATION L0040789     VOLUME   543945.602 3755432.311 287.87
LOCATION L0040790     VOLUME   543949.260 3755432.309 287.84
LOCATION L0040791     VOLUME   543952.917 3755432.308 287.80
LOCATION L0040792     VOLUME   543956.575 3755432.306 287.77
LOCATION L0040793     VOLUME   543960.233 3755432.305 287.73
LOCATION L0040794     VOLUME   543963.890 3755432.304 287.72
LOCATION L0040795     VOLUME   543967.548 3755432.302 287.72
LOCATION L0040796     VOLUME   543971.205 3755432.301 287.72
LOCATION L0040797     VOLUME   543974.863 3755432.299 287.72
LOCATION L0040798     VOLUME   543978.521 3755432.298 287.72
LOCATION L0040799     VOLUME   543982.178 3755432.296 287.72
LOCATION L0040800     VOLUME   543985.836 3755432.295 287.72
LOCATION L0040801     VOLUME   543989.493 3755432.293 287.71
LOCATION L0040802     VOLUME   543993.151 3755432.292 287.70
LOCATION L0040803     VOLUME   543996.809 3755432.290 287.68
LOCATION L0040804     VOLUME   544000.466 3755432.289 287.67
LOCATION L0040805     VOLUME   544004.124 3755432.288 287.66
LOCATION L0040806     VOLUME   544007.781 3755432.286 287.65
LOCATION L0040807     VOLUME   544011.439 3755432.285 287.64
LOCATION L0040808     VOLUME   544015.097 3755432.283 287.63
LOCATION L0040809     VOLUME   544018.754 3755432.282 287.63
LOCATION L0040810     VOLUME   544022.412 3755432.280 287.63
LOCATION L0040811     VOLUME   544026.069 3755432.279 287.62
LOCATION L0040812     VOLUME   544029.727 3755432.277 287.62
LOCATION L0040813     VOLUME   544033.385 3755432.276 287.62
LOCATION L0040814     VOLUME   544037.042 3755432.274 287.62
LOCATION L0040815     VOLUME   544040.700 3755432.273 287.62
LOCATION L0040816     VOLUME   544044.357 3755432.271 287.62
LOCATION L0040817     VOLUME   544048.015 3755432.270 287.62
LOCATION L0040818     VOLUME   544051.673 3755432.269 287.62
LOCATION L0040819     VOLUME   544055.330 3755432.267 287.62
LOCATION L0040820     VOLUME   544058.988 3755432.266 287.62
LOCATION L0040821     VOLUME   544062.645 3755432.264 287.62
LOCATION L0040822     VOLUME   544066.303 3755432.263 287.61
LOCATION L0040823     VOLUME   544069.961 3755432.261 287.60
LOCATION L0040824     VOLUME   544073.618 3755432.260 287.58
LOCATION L0040825     VOLUME   544077.276 3755432.258 287.57
LOCATION L0040826     VOLUME   544080.933 3755432.257 287.56
LOCATION L0040827     VOLUME   544084.591 3755432.255 287.54
LOCATION L0040828     VOLUME   544088.249 3755432.254 287.53
LOCATION L0040829     VOLUME   544091.906 3755432.253 287.52
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LOCATION L0040831     VOLUME   544099.221 3755432.250 287.49
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LOCATION L0040834     VOLUME   544110.194 3755432.245 287.44
LOCATION L0040835     VOLUME   544113.852 3755432.244 287.43
LOCATION L0040836     VOLUME   544117.509 3755432.242 287.42
LOCATION L0040837     VOLUME   544121.167 3755432.241 287.40
LOCATION L0040838     VOLUME   544124.825 3755432.239 287.38
LOCATION L0040839     VOLUME   544128.482 3755432.238 287.37
LOCATION L0040840     VOLUME   544132.140 3755432.237 287.35
LOCATION L0040841     VOLUME   544135.797 3755432.235 287.34
LOCATION L0040842     VOLUME   544139.455 3755432.234 287.32
LOCATION L0040843     VOLUME   544143.113 3755432.232 287.31
LOCATION L0040844     VOLUME   544146.770 3755432.231 287.30
LOCATION L0040845     VOLUME   544150.428 3755432.229 287.28
LOCATION L0040846     VOLUME   544154.085 3755432.228 287.27
LOCATION L0040847     VOLUME   544157.743 3755432.226 287.26
LOCATION L0040848     VOLUME   544161.401 3755432.225 287.24
LOCATION L0040849     VOLUME   544165.058 3755432.223 287.23
LOCATION L0040850     VOLUME   544168.716 3755432.222 287.21
LOCATION L0040851     VOLUME   544172.373 3755432.220 287.19
LOCATION L0040852     VOLUME   544176.031 3755432.219 287.18
LOCATION L0040853     VOLUME   544179.689 3755432.218 287.16
LOCATION L0040854     VOLUME   544183.346 3755432.216 287.14
LOCATION L0040855     VOLUME   544187.004 3755432.215 287.12
LOCATION L0040856     VOLUME   544190.661 3755432.213 287.11
LOCATION L0040857     VOLUME   544194.319 3755432.212 287.09
LOCATION L0040858     VOLUME   544197.977 3755432.210 287.08
LOCATION L0040859     VOLUME   544201.634 3755432.209 287.07
LOCATION L0040860     VOLUME   544205.292 3755432.207 287.06
LOCATION L0040861     VOLUME   544208.949 3755432.206 287.05
LOCATION L0040862     VOLUME   544212.607 3755432.204 287.03
LOCATION L0040863     VOLUME   544216.265 3755432.203 287.02
LOCATION L0040864     VOLUME   544219.922 3755432.202 287.01
LOCATION L0040865     VOLUME   544223.580 3755432.200 286.99
LOCATION L0040866     VOLUME   544227.237 3755432.199 286.97
LOCATION L0040867     VOLUME   544230.895 3755432.197 286.95
LOCATION L0040868     VOLUME   544234.553 3755432.196 286.93
LOCATION L0040869     VOLUME   544238.210 3755432.194 286.91
LOCATION L0040870     VOLUME   544241.868 3755432.193 286.89
LOCATION L0040871     VOLUME   544245.525 3755432.191 286.87
LOCATION L0040872     VOLUME   544249.183 3755432.190 286.85
LOCATION L0040873     VOLUME   544252.841 3755432.188 286.83
LOCATION L0040874     VOLUME   544256.498 3755432.187 286.82
LOCATION L0040875     VOLUME   544260.156 3755432.185 286.80
LOCATION L0040876     VOLUME   544263.813 3755432.184 286.78
LOCATION L0040877     VOLUME   544267.471 3755432.183 286.76
LOCATION L0040878     VOLUME   544271.129 3755432.181 286.74
LOCATION L0040879     VOLUME   544274.786 3755432.180 286.71
LOCATION L0040880     VOLUME   544278.444 3755432.178 286.69
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   LOCATION L0040881     VOLUME   544282.101 3755432.177 286.67
   LOCATION L0040882     VOLUME   544285.759 3755432.175 286.64
   LOCATION L0040883     VOLUME   544289.417 3755432.174 286.62
   LOCATION L0040884     VOLUME   544293.074 3755432.172 286.60
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   LOCATION L0040886     VOLUME   544300.389 3755432.169 286.56
   LOCATION L0040887     VOLUME   544304.047 3755432.168 286.53
   LOCATION L0040888     VOLUME   544307.705 3755432.167 286.51
   LOCATION L0040889     VOLUME   544311.362 3755432.165 286.49
   LOCATION L0040890     VOLUME   544315.020 3755432.164 286.47
   LOCATION L0040891     VOLUME   544318.677 3755432.162 286.45
   LOCATION L0040892     VOLUME   544322.335 3755432.161 286.43
   LOCATION L0040893     VOLUME   544325.993 3755432.159 286.40
   LOCATION L0040894     VOLUME   544329.650 3755432.158 286.38
   LOCATION L0040895     VOLUME   544333.308 3755432.156 286.36
   LOCATION L0040896     VOLUME   544336.965 3755432.155 286.33
   LOCATION L0040897     VOLUME   544340.623 3755432.153 286.31
   LOCATION L0040898     VOLUME   544344.281 3755432.152 286.29
   LOCATION L0040899     VOLUME   544347.938 3755432.151 286.26
   LOCATION L0040900     VOLUME   544351.596 3755432.149 286.24
   LOCATION L0040901     VOLUME   544355.253 3755432.148 286.22
** End of LINE VOLUME Source ID = SLINE11
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE12
** DESCRSRC On-site along Street D
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000165
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 4
** 543960.215, 3755200.488, 283.95, 0.00, 1.70
** 543998.623, 3755216.757, 283.88, 0.00, 1.70
** 544012.518, 3755219.423, 283.43, 0.00, 1.70
** 544357.579, 3755217.675, 282.67, 0.00, 1.70
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   LOCATION L0040902     VOLUME   543961.899 3755201.201 284.00
   LOCATION L0040903     VOLUME   543965.267 3755202.628 284.00
   LOCATION L0040904     VOLUME   543968.635 3755204.055 283.99
   LOCATION L0040905     VOLUME   543972.003 3755205.481 283.98
   LOCATION L0040906     VOLUME   543975.371 3755206.908 283.97
   LOCATION L0040907     VOLUME   543978.739 3755208.334 283.96
   LOCATION L0040908     VOLUME   543982.107 3755209.761 283.95
   LOCATION L0040909     VOLUME   543985.475 3755211.187 283.94
   LOCATION L0040910     VOLUME   543988.843 3755212.614 283.92
   LOCATION L0040911     VOLUME   543992.211 3755214.041 283.87
   LOCATION L0040912     VOLUME   543995.579 3755215.467 283.82
   LOCATION L0040913     VOLUME   543998.968 3755216.823 283.76
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LOCATION L0040914     VOLUME   544002.560 3755217.512 283.68
LOCATION L0040915     VOLUME   544006.152 3755218.202 283.60
LOCATION L0040916     VOLUME   544009.744 3755218.891 283.51
LOCATION L0040917     VOLUME   544013.351 3755219.419 283.43
LOCATION L0040918     VOLUME   544017.009 3755219.401 283.39
LOCATION L0040919     VOLUME   544020.666 3755219.382 283.35
LOCATION L0040920     VOLUME   544024.324 3755219.364 283.31
LOCATION L0040921     VOLUME   544027.981 3755219.345 283.28
LOCATION L0040922     VOLUME   544031.639 3755219.326 283.24
LOCATION L0040923     VOLUME   544035.297 3755219.308 283.20
LOCATION L0040924     VOLUME   544038.954 3755219.289 283.17
LOCATION L0040925     VOLUME   544042.612 3755219.271 283.16
LOCATION L0040926     VOLUME   544046.269 3755219.252 283.16
LOCATION L0040927     VOLUME   544049.927 3755219.234 283.16
LOCATION L0040928     VOLUME   544053.584 3755219.215 283.16
LOCATION L0040929     VOLUME   544057.242 3755219.197 283.15
LOCATION L0040930     VOLUME   544060.899 3755219.178 283.15
LOCATION L0040931     VOLUME   544064.557 3755219.160 283.15
LOCATION L0040932     VOLUME   544068.215 3755219.141 283.16
LOCATION L0040933     VOLUME   544071.872 3755219.123 283.16
LOCATION L0040934     VOLUME   544075.530 3755219.104 283.17
LOCATION L0040935     VOLUME   544079.187 3755219.086 283.18
LOCATION L0040936     VOLUME   544082.845 3755219.067 283.19
LOCATION L0040937     VOLUME   544086.502 3755219.048 283.20
LOCATION L0040938     VOLUME   544090.160 3755219.030 283.20
LOCATION L0040939     VOLUME   544093.817 3755219.011 283.20
LOCATION L0040940     VOLUME   544097.475 3755218.993 283.20
LOCATION L0040941     VOLUME   544101.133 3755218.974 283.20
LOCATION L0040942     VOLUME   544104.790 3755218.956 283.20
LOCATION L0040943     VOLUME   544108.448 3755218.937 283.20
LOCATION L0040944     VOLUME   544112.105 3755218.919 283.20
LOCATION L0040945     VOLUME   544115.763 3755218.900 283.20
LOCATION L0040946     VOLUME   544119.420 3755218.882 283.20
LOCATION L0040947     VOLUME   544123.078 3755218.863 283.21
LOCATION L0040948     VOLUME   544126.735 3755218.845 283.22
LOCATION L0040949     VOLUME   544130.393 3755218.826 283.23
LOCATION L0040950     VOLUME   544134.050 3755218.807 283.24
LOCATION L0040951     VOLUME   544137.708 3755218.789 283.24
LOCATION L0040952     VOLUME   544141.366 3755218.770 283.25
LOCATION L0040953     VOLUME   544145.023 3755218.752 283.25
LOCATION L0040954     VOLUME   544148.681 3755218.733 283.25
LOCATION L0040955     VOLUME   544152.338 3755218.715 283.25
LOCATION L0040956     VOLUME   544155.996 3755218.696 283.25
LOCATION L0040957     VOLUME   544159.653 3755218.678 283.25
LOCATION L0040958     VOLUME   544163.311 3755218.659 283.25
LOCATION L0040959     VOLUME   544166.968 3755218.641 283.25
LOCATION L0040960     VOLUME   544170.626 3755218.622 283.25
LOCATION L0040961     VOLUME   544174.284 3755218.604 283.24
LOCATION L0040962     VOLUME   544177.941 3755218.585 283.23
LOCATION L0040963     VOLUME   544181.599 3755218.567 283.22
LOCATION L0040964     VOLUME   544185.256 3755218.548 283.21
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   LOCATION L0040965     VOLUME   544188.914 3755218.529 283.20
   LOCATION L0040966     VOLUME   544192.571 3755218.511 283.19
   LOCATION L0040967     VOLUME   544196.229 3755218.492 283.19
   LOCATION L0040968     VOLUME   544199.886 3755218.474 283.18
   LOCATION L0040969     VOLUME   544203.544 3755218.455 283.17
   LOCATION L0040970     VOLUME   544207.202 3755218.437 283.17
   LOCATION L0040971     VOLUME   544210.859 3755218.418 283.16
   LOCATION L0040972     VOLUME   544214.517 3755218.400 283.16
   LOCATION L0040973     VOLUME   544218.174 3755218.381 283.15
   LOCATION L0040974     VOLUME   544221.832 3755218.363 283.14
   LOCATION L0040975     VOLUME   544225.489 3755218.344 283.13
   LOCATION L0040976     VOLUME   544229.147 3755218.326 283.11
   LOCATION L0040977     VOLUME   544232.804 3755218.307 283.10
   LOCATION L0040978     VOLUME   544236.462 3755218.288 283.09
   LOCATION L0040979     VOLUME   544240.120 3755218.270 283.08
   LOCATION L0040980     VOLUME   544243.777 3755218.251 283.06
   LOCATION L0040981     VOLUME   544247.435 3755218.233 283.05
   LOCATION L0040982     VOLUME   544251.092 3755218.214 283.04
   LOCATION L0040983     VOLUME   544254.750 3755218.196 283.03
   LOCATION L0040984     VOLUME   544258.407 3755218.177 283.02
   LOCATION L0040985     VOLUME   544262.065 3755218.159 283.01
   LOCATION L0040986     VOLUME   544265.722 3755218.140 283.00
   LOCATION L0040987     VOLUME   544269.380 3755218.122 282.98
   LOCATION L0040988     VOLUME   544273.037 3755218.103 282.97
   LOCATION L0040989     VOLUME   544276.695 3755218.085 282.96
   LOCATION L0040990     VOLUME   544280.353 3755218.066 282.95
   LOCATION L0040991     VOLUME   544284.010 3755218.048 282.94
   LOCATION L0040992     VOLUME   544287.668 3755218.029 282.93
   LOCATION L0040993     VOLUME   544291.325 3755218.010 282.92
   LOCATION L0040994     VOLUME   544294.983 3755217.992 282.91
   LOCATION L0040995     VOLUME   544298.640 3755217.973 282.90
   LOCATION L0040996     VOLUME   544302.298 3755217.955 282.88
   LOCATION L0040997     VOLUME   544305.955 3755217.936 282.86
   LOCATION L0040998     VOLUME   544309.613 3755217.918 282.84
   LOCATION L0040999     VOLUME   544313.271 3755217.899 282.82
   LOCATION L0041000     VOLUME   544316.928 3755217.881 282.80
   LOCATION L0041001     VOLUME   544320.586 3755217.862 282.78
   LOCATION L0041002     VOLUME   544324.243 3755217.844 282.76
   LOCATION L0041003     VOLUME   544327.901 3755217.825 282.75
   LOCATION L0041004     VOLUME   544331.558 3755217.807 282.74
   LOCATION L0041005     VOLUME   544335.216 3755217.788 282.73
   LOCATION L0041006     VOLUME   544338.873 3755217.769 282.72
   LOCATION L0041007     VOLUME   544342.531 3755217.751 282.71
   LOCATION L0041008     VOLUME   544346.189 3755217.732 282.70
   LOCATION L0041009     VOLUME   544349.846 3755217.714 282.68
   LOCATION L0041010     VOLUME   544353.504 3755217.695 282.66
   LOCATION L0041011     VOLUME   544357.161 3755217.677 282.64
** End of LINE VOLUME Source ID = SLINE12
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE13
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** DESCRSRC On-site along Street C
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000106
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
** 544100.737, 3754969.508, 279.09, 0.00, 1.70
** 544358.807, 3754970.151, 277.94, 0.00, 1.70
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   LOCATION L0041012     VOLUME   544102.565 3754969.512 279.04
   LOCATION L0041013     VOLUME   544106.223 3754969.522 279.03
   LOCATION L0041014     VOLUME   544109.880 3754969.531 279.02
   LOCATION L0041015     VOLUME   544113.538 3754969.540 279.01
   LOCATION L0041016     VOLUME   544117.196 3754969.549 279.01
   LOCATION L0041017     VOLUME   544120.853 3754969.558 279.00
   LOCATION L0041018     VOLUME   544124.511 3754969.567 278.99
   LOCATION L0041019     VOLUME   544128.168 3754969.576 278.99
   LOCATION L0041020     VOLUME   544131.826 3754969.585 278.98
   LOCATION L0041021     VOLUME   544135.484 3754969.594 278.97
   LOCATION L0041022     VOLUME   544139.141 3754969.604 278.97
   LOCATION L0041023     VOLUME   544142.799 3754969.613 278.96
   LOCATION L0041024     VOLUME   544146.456 3754969.622 278.95
   LOCATION L0041025     VOLUME   544150.114 3754969.631 278.93
   LOCATION L0041026     VOLUME   544153.772 3754969.640 278.92
   LOCATION L0041027     VOLUME   544157.429 3754969.649 278.90
   LOCATION L0041028     VOLUME   544161.087 3754969.658 278.89
   LOCATION L0041029     VOLUME   544164.744 3754969.667 278.87
   LOCATION L0041030     VOLUME   544168.402 3754969.676 278.86
   LOCATION L0041031     VOLUME   544172.060 3754969.686 278.85
   LOCATION L0041032     VOLUME   544175.717 3754969.695 278.83
   LOCATION L0041033     VOLUME   544179.375 3754969.704 278.82
   LOCATION L0041034     VOLUME   544183.032 3754969.713 278.81
   LOCATION L0041035     VOLUME   544186.690 3754969.722 278.79
   LOCATION L0041036     VOLUME   544190.347 3754969.731 278.78
   LOCATION L0041037     VOLUME   544194.005 3754969.740 278.77
   LOCATION L0041038     VOLUME   544197.663 3754969.749 278.76
   LOCATION L0041039     VOLUME   544201.320 3754969.758 278.74
   LOCATION L0041040     VOLUME   544204.978 3754969.768 278.73
   LOCATION L0041041     VOLUME   544208.635 3754969.777 278.72
   LOCATION L0041042     VOLUME   544212.293 3754969.786 278.71
   LOCATION L0041043     VOLUME   544215.951 3754969.795 278.69
   LOCATION L0041044     VOLUME   544219.608 3754969.804 278.68
   LOCATION L0041045     VOLUME   544223.266 3754969.813 278.66
   LOCATION L0041046     VOLUME   544226.923 3754969.822 278.65
   LOCATION L0041047     VOLUME   544230.581 3754969.831 278.63
   LOCATION L0041048     VOLUME   544234.239 3754969.840 278.62
   LOCATION L0041049     VOLUME   544237.896 3754969.850 278.60
   LOCATION L0041050     VOLUME   544241.554 3754969.859 278.58
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   LOCATION L0041051     VOLUME   544245.211 3754969.868 278.57
   LOCATION L0041052     VOLUME   544248.869 3754969.877 278.55
   LOCATION L0041053     VOLUME   544252.526 3754969.886 278.53
   LOCATION L0041054     VOLUME   544256.184 3754969.895 278.52
   LOCATION L0041055     VOLUME   544259.842 3754969.904 278.50
   LOCATION L0041056     VOLUME   544263.499 3754969.913 278.49
   LOCATION L0041057     VOLUME   544267.157 3754969.922 278.47
   LOCATION L0041058     VOLUME   544270.814 3754969.932 278.45
   LOCATION L0041059     VOLUME   544274.472 3754969.941 278.43
   LOCATION L0041060     VOLUME   544278.130 3754969.950 278.41
   LOCATION L0041061     VOLUME   544281.787 3754969.959 278.39
   LOCATION L0041062     VOLUME   544285.445 3754969.968 278.37
   LOCATION L0041063     VOLUME   544289.102 3754969.977 278.35
   LOCATION L0041064     VOLUME   544292.760 3754969.986 278.33
   LOCATION L0041065     VOLUME   544296.418 3754969.995 278.31
   LOCATION L0041066     VOLUME   544300.075 3754970.004 278.29
   LOCATION L0041067     VOLUME   544303.733 3754970.013 278.27
   LOCATION L0041068     VOLUME   544307.390 3754970.023 278.25
   LOCATION L0041069     VOLUME   544311.048 3754970.032 278.23
   LOCATION L0041070     VOLUME   544314.705 3754970.041 278.22
   LOCATION L0041071     VOLUME   544318.363 3754970.050 278.20
   LOCATION L0041072     VOLUME   544322.021 3754970.059 278.18
   LOCATION L0041073     VOLUME   544325.678 3754970.068 278.16
   LOCATION L0041074     VOLUME   544329.336 3754970.077 278.15
   LOCATION L0041075     VOLUME   544332.993 3754970.086 278.13
   LOCATION L0041076     VOLUME   544336.651 3754970.095 278.12
   LOCATION L0041077     VOLUME   544340.309 3754970.105 278.10
   LOCATION L0041078     VOLUME   544343.966 3754970.114 278.09
   LOCATION L0041079     VOLUME   544347.624 3754970.123 278.07
   LOCATION L0041080     VOLUME   544351.281 3754970.132 278.05
   LOCATION L0041081     VOLUME   544354.939 3754970.141 278.03
   LOCATION L0041082     VOLUME   544358.597 3754970.150 278.02
** End of LINE VOLUME Source ID = SLINE13
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE14
** DESCRSRC Little Morongo - 15th Ave to 2 Bunch Palms Trail
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000126
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
** 543688.071, 3755635.085, 294.12, 0.00, 1.70
** 543690.283, 3756364.348, 307.62, 0.00, 1.70
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   LOCATION L0041982     VOLUME   543688.088 3755640.571 294.17
   LOCATION L0041983     VOLUME   543688.099 3755644.229 294.24
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LOCATION L0041984     VOLUME   543688.110 3755647.887 294.32
LOCATION L0041985     VOLUME   543688.121 3755651.544 294.40
LOCATION L0041986     VOLUME   543688.132 3755655.202 294.47
LOCATION L0041987     VOLUME   543688.143 3755658.859 294.55
LOCATION L0041988     VOLUME   543688.154 3755662.517 294.63
LOCATION L0041989     VOLUME   543688.165 3755666.174 294.70
LOCATION L0041990     VOLUME   543688.176 3755669.832 294.78
LOCATION L0041991     VOLUME   543688.188 3755673.490 294.86
LOCATION L0041992     VOLUME   543688.199 3755677.147 294.93
LOCATION L0041993     VOLUME   543688.210 3755680.805 295.01
LOCATION L0041994     VOLUME   543688.221 3755684.462 295.09
LOCATION L0041995     VOLUME   543688.232 3755688.120 295.17
LOCATION L0041996     VOLUME   543688.243 3755691.778 295.24
LOCATION L0041997     VOLUME   543688.254 3755695.435 295.32
LOCATION L0041998     VOLUME   543688.265 3755699.093 295.40
LOCATION L0041999     VOLUME   543688.276 3755702.750 295.48
LOCATION L0042000     VOLUME   543688.287 3755706.408 295.55
LOCATION L0042001     VOLUME   543688.298 3755710.065 295.63
LOCATION L0042002     VOLUME   543688.310 3755713.723 295.71
LOCATION L0042003     VOLUME   543688.321 3755717.381 295.79
LOCATION L0042004     VOLUME   543688.332 3755721.038 295.86
LOCATION L0042005     VOLUME   543688.343 3755724.696 295.94
LOCATION L0042006     VOLUME   543688.354 3755728.353 296.02
LOCATION L0042007     VOLUME   543688.365 3755732.011 296.10
LOCATION L0042008     VOLUME   543688.376 3755735.669 296.18
LOCATION L0042009     VOLUME   543688.387 3755739.326 296.26
LOCATION L0042010     VOLUME   543688.398 3755742.984 296.33
LOCATION L0042011     VOLUME   543688.409 3755746.641 296.41
LOCATION L0042012     VOLUME   543688.421 3755750.299 296.48
LOCATION L0042013     VOLUME   543688.432 3755753.956 296.56
LOCATION L0042014     VOLUME   543688.443 3755757.614 296.63
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LOCATION L0042016     VOLUME   543688.465 3755764.929 296.78
LOCATION L0042017     VOLUME   543688.476 3755768.587 296.85
LOCATION L0042018     VOLUME   543688.487 3755772.244 296.93
LOCATION L0042019     VOLUME   543688.498 3755775.902 297.00
LOCATION L0042020     VOLUME   543688.509 3755779.560 297.08
LOCATION L0042021     VOLUME   543688.520 3755783.217 297.15
LOCATION L0042022     VOLUME   543688.531 3755786.875 297.22
LOCATION L0042023     VOLUME   543688.543 3755790.532 297.30
LOCATION L0042024     VOLUME   543688.554 3755794.190 297.37
LOCATION L0042025     VOLUME   543688.565 3755797.847 297.44
LOCATION L0042026     VOLUME   543688.576 3755801.505 297.51
LOCATION L0042027     VOLUME   543688.587 3755805.163 297.59
LOCATION L0042028     VOLUME   543688.598 3755808.820 297.66
LOCATION L0042029     VOLUME   543688.609 3755812.478 297.73
LOCATION L0042030     VOLUME   543688.620 3755816.135 297.81
LOCATION L0042031     VOLUME   543688.631 3755819.793 297.88
LOCATION L0042032     VOLUME   543688.642 3755823.451 297.95
LOCATION L0042033     VOLUME   543688.654 3755827.108 298.03
LOCATION L0042034     VOLUME   543688.665 3755830.766 298.10
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LOCATION L0042037     VOLUME   543688.698 3755841.738 298.32
LOCATION L0042038     VOLUME   543688.709 3755845.396 298.39
LOCATION L0042039     VOLUME   543688.720 3755849.054 298.47
LOCATION L0042040     VOLUME   543688.731 3755852.711 298.54
LOCATION L0042041     VOLUME   543688.742 3755856.369 298.61
LOCATION L0042042     VOLUME   543688.753 3755860.026 298.69
LOCATION L0042043     VOLUME   543688.764 3755863.684 298.76
LOCATION L0042044     VOLUME   543688.776 3755867.341 298.84
LOCATION L0042045     VOLUME   543688.787 3755870.999 298.91
LOCATION L0042046     VOLUME   543688.798 3755874.657 298.99
LOCATION L0042047     VOLUME   543688.809 3755878.314 299.06
LOCATION L0042048     VOLUME   543688.820 3755881.972 299.14
LOCATION L0042049     VOLUME   543688.831 3755885.629 299.22
LOCATION L0042050     VOLUME   543688.842 3755889.287 299.29
LOCATION L0042051     VOLUME   543688.853 3755892.945 299.37
LOCATION L0042052     VOLUME   543688.864 3755896.602 299.45
LOCATION L0042053     VOLUME   543688.875 3755900.260 299.52
LOCATION L0042054     VOLUME   543688.887 3755903.917 299.59
LOCATION L0042055     VOLUME   543688.898 3755907.575 299.66
LOCATION L0042056     VOLUME   543688.909 3755911.232 299.73
LOCATION L0042057     VOLUME   543688.920 3755914.890 299.80
LOCATION L0042058     VOLUME   543688.931 3755918.548 299.88
LOCATION L0042059     VOLUME   543688.942 3755922.205 299.95
LOCATION L0042060     VOLUME   543688.953 3755925.863 300.02
LOCATION L0042061     VOLUME   543688.964 3755929.520 300.09
LOCATION L0042062     VOLUME   543688.975 3755933.178 300.16
LOCATION L0042063     VOLUME   543688.986 3755936.836 300.23
LOCATION L0042064     VOLUME   543688.997 3755940.493 300.30
LOCATION L0042065     VOLUME   543689.009 3755944.151 300.37
LOCATION L0042066     VOLUME   543689.020 3755947.808 300.43
LOCATION L0042067     VOLUME   543689.031 3755951.466 300.50
LOCATION L0042068     VOLUME   543689.042 3755955.123 300.57
LOCATION L0042069     VOLUME   543689.053 3755958.781 300.64
LOCATION L0042070     VOLUME   543689.064 3755962.439 300.70
LOCATION L0042071     VOLUME   543689.075 3755966.096 300.77
LOCATION L0042072     VOLUME   543689.086 3755969.754 300.83
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LOCATION L0042078     VOLUME   543689.153 3755991.699 301.22
LOCATION L0042079     VOLUME   543689.164 3755995.357 301.28
LOCATION L0042080     VOLUME   543689.175 3755999.014 301.35
LOCATION L0042081     VOLUME   543689.186 3756002.672 301.42
LOCATION L0042082     VOLUME   543689.197 3756006.330 301.49
LOCATION L0042083     VOLUME   543689.208 3756009.987 301.56
LOCATION L0042084     VOLUME   543689.219 3756013.645 301.63
LOCATION L0042085     VOLUME   543689.230 3756017.302 301.70
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** End of LINE VOLUME Source ID = SLINE14
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE15
** DESCRSRC 2 Bunch Palms Trail - Little Morongo to Palm
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
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** Elevated
** Vertical Dimension = 3.28
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** Line Source Represented by Adjacent Volume Sources
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** DESCRSRC Little Morongo - North 2 Bunch Trails
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 8.0E-06
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
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LOCATION L0041974     VOLUME   543678.988 3757240.678 324.96
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** End of LINE VOLUME Source ID = SLINE16
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE17
** DESCRSRC Dillon Road - Little Morongo to Palm
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.00004
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
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LOCATION L0040696     VOLUME   545764.533 3753938.397 254.13
LOCATION L0040697     VOLUME   545768.191 3753938.408 254.10
LOCATION L0040698     VOLUME   545771.848 3753938.419 254.07
LOCATION L0040699     VOLUME   545775.506 3753938.430 254.04
LOCATION L0040700     VOLUME   545779.164 3753938.440 254.01
LOCATION L0040701     VOLUME   545782.821 3753938.451 253.98
LOCATION L0040702     VOLUME   545786.479 3753938.462 253.95
LOCATION L0040703     VOLUME   545790.136 3753938.473 253.92
LOCATION L0040704     VOLUME   545793.794 3753938.484 253.89
LOCATION L0040705     VOLUME   545797.452 3753938.495 253.85
LOCATION L0040706     VOLUME   545801.109 3753938.505 253.82
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LOCATION L0040708     VOLUME   545808.424 3753938.527 253.75
LOCATION L0040709     VOLUME   545812.082 3753938.538 253.72
LOCATION L0040710     VOLUME   545815.739 3753938.549 253.68
LOCATION L0040711     VOLUME   545819.397 3753938.560 253.64
LOCATION L0040712     VOLUME   545823.055 3753938.570 253.59
LOCATION L0040713     VOLUME   545826.712 3753938.581 253.54
LOCATION L0040714     VOLUME   545830.370 3753938.592 253.49
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LOCATION L0040716     VOLUME   545837.685 3753938.614 253.39
LOCATION L0040717     VOLUME   545841.343 3753938.625 253.34
LOCATION L0040718     VOLUME   545845.000 3753938.635 253.31
LOCATION L0040719     VOLUME   545848.658 3753938.646 253.30
LOCATION L0040720     VOLUME   545852.315 3753938.657 253.29
LOCATION L0040721     VOLUME   545855.973 3753938.668 253.28
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LOCATION L0040723     VOLUME   545863.288 3753938.690 253.26
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LOCATION L0040725     VOLUME   545870.603 3753938.711 253.23
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LOCATION L0040727     VOLUME   545877.918 3753938.733 253.19
LOCATION L0040728     VOLUME   545881.576 3753938.744 253.17
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LOCATION L0040730     VOLUME   545888.891 3753938.765 253.13
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LOCATION L0040732     VOLUME   545896.206 3753938.787 253.07
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LOCATION L0040737     VOLUME   545914.494 3753938.841 252.82
LOCATION L0040738     VOLUME   545918.152 3753938.852 252.77
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LOCATION L0040743     VOLUME   545936.440 3753938.906 252.59
LOCATION L0040744     VOLUME   545940.097 3753938.917 252.55
LOCATION L0040745     VOLUME   545943.755 3753938.928 252.52
LOCATION L0040746     VOLUME   545947.413 3753938.939 252.49
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LOCATION L0040748     VOLUME   545954.728 3753938.960 252.44
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LOCATION L0040752     VOLUME   545969.358 3753939.004 252.35
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LOCATION L0040761     VOLUME   546002.276 3753939.101 252.05
LOCATION L0040762     VOLUME   546005.934 3753939.112 252.04
LOCATION L0040763     VOLUME   546009.591 3753939.123 252.03
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LOCATION L0040765     VOLUME   546016.907 3753939.144 252.01
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   LOCATION L0040769     VOLUME   546031.537 3753939.188 251.95
   LOCATION L0040770     VOLUME   546035.195 3753939.199 251.94
   LOCATION L0040771     VOLUME   546038.852 3753939.209 251.92
   LOCATION L0040772     VOLUME   546042.510 3753939.220 251.91
   LOCATION L0040773     VOLUME   546046.167 3753939.231 251.89
   LOCATION L0040774     VOLUME   546049.825 3753939.242 251.88
   LOCATION L0040775     VOLUME   546053.482 3753939.253 251.87
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** Source Parameters **
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   SRCPARAM STCK3        0.0000154     3.658   366.000  51.90000     0.100
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SRCPARAM L0039430     0.0000001413      0.00      1.70      0.76
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SRCPARAM L0040004     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040005     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040006     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040007     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040008     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040009     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040010     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040011     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040012     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040013     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040014     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040015     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040016     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040017     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040018     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040019     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040020     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040021     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040022     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040023     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040024     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040025     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040026     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040027     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040028     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040029     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040030     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040031     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040032     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040033     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040034     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040035     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040036     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040037     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040038     0.00000006318      0.00      1.70      0.76
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SRCPARAM L0040039     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040040     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040041     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040042     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040043     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040044     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040045     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040046     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040047     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040048     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040049     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040050     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040051     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040052     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040053     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040054     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040055     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040056     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040057     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040058     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040059     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040060     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040061     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040062     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040063     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040064     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040065     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040066     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040067     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040068     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040069     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040070     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040071     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040072     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040073     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040074     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040075     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040076     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040077     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040078     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040079     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040080     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040081     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040082     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040083     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040084     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040085     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040086     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040087     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040088     0.00000006318      0.00      1.70      0.76
SRCPARAM L0040089     0.00000006318      0.00      1.70      0.76
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   SRCPARAM L0040090     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040091     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040092     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040093     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040094     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040095     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040096     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040097     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040098     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040099     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040100     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040101     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040102     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040103     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040104     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040105     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040106     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040107     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040108     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040109     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040110     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040111     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040112     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040113     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040114     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040115     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040116     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040117     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040118     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040119     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040120     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040121     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040122     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040123     0.00000006318      0.00      1.70      0.76
   SRCPARAM L0040124     0.00000006318      0.00      1.70      0.76
** ------------------------------------------------------------------
   SRCPARAM STCK5        0.0000154     3.658   366.000  51.90000     0.100
   SRCPARAM STCK6        0.0000154     3.658   366.000  51.90000     0.100
   SRCPARAM STCK7        0.0000154     3.658   366.000  51.90000     0.100
   SRCPARAM STCK8        0.0000154     3.658   366.000  51.90000     0.100
   SRCPARAM STCK9        0.0000154     3.658   366.000  51.90000     0.100
   SRCPARAM STCK10       0.0000154     3.658   366.000  51.90000     0.100
   SRCPARAM STCK11       0.0000154     3.658   366.000  51.90000     0.100
   SRCPARAM STCK12       0.0000154     3.658   366.000  51.90000     0.100
   SRCPARAM STCK13       0.0000154     3.658   366.000  51.90000     0.100
   SRCPARAM STCK14       0.0000154     3.658   366.000  51.90000     0.100
   SRCPARAM STCK15       0.0000154     3.658   366.000  51.90000     0.100
   SRCPARAM STCK16       0.0000154     3.658   366.000  51.90000     0.100
   SRCPARAM STCK18       0.0000154     3.658   366.000  51.90000     0.100
   SRCPARAM STCK19       0.0000154     3.658   366.000  51.90000     0.100
   SRCPARAM STCK20       0.0000154     3.658   366.000  51.90000     0.100
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   SRCPARAM STCK21       0.0000154     3.658   366.000  51.90000     0.100
   SRCPARAM STCK22       0.0000154     3.658   366.000  51.90000     0.100
   SRCPARAM STCK23       0.0000154     3.658   366.000  51.90000     0.100
   SRCPARAM STCK24       0.0000154     3.658   366.000  51.90000     0.100
   SRCPARAM STCK25       0.0000154     3.658   366.000  51.90000     0.100
   SRCPARAM STCK26       0.0000154     3.658   366.000  51.90000     0.100
   SRCPARAM STCK27       0.0000154     3.658   366.000  51.90000     0.100
   SRCPARAM STCK28       0.0000154     3.658   366.000  51.90000     0.100
   SRCPARAM STCK29       0.0000154     3.658   366.000  51.90000     0.100
   SRCPARAM STCK30       0.0000154     3.658   366.000  51.90000     0.100
   SRCPARAM STCK31       0.0000154     3.658   366.000  51.90000     0.100
   SRCPARAM STCK32       0.0000154     3.658   366.000  51.90000     0.100
   SRCPARAM STCK33       0.0000154     3.658   366.000  51.90000     0.100
   SRCPARAM STCK34       0.0000154     3.658   366.000  51.90000     0.100
** LINE VOLUME Source ID = SLINE11
   SRCPARAM L0040777     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040778     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040779     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040780     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040781     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040782     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040783     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040784     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040785     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040786     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040787     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040788     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040789     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040790     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040791     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040792     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040793     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040794     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040795     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040796     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040797     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040798     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040799     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040800     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040801     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040802     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040803     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040804     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040805     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040806     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040807     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040808     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040809     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040810     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040811     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040812     0.0000001504      0.00      1.70      0.76
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SRCPARAM L0040813     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040814     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040815     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040816     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040817     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040818     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040819     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040820     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040821     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040822     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040823     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040824     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040825     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040826     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040827     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040828     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040829     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040830     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040831     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040832     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040833     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040834     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040835     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040836     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040837     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040838     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040839     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040840     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040841     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040842     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040843     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040844     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040845     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040846     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040847     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040848     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040849     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040850     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040851     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040852     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040853     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040854     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040855     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040856     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040857     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040858     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040859     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040860     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040861     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040862     0.0000001504      0.00      1.70      0.76
SRCPARAM L0040863     0.0000001504      0.00      1.70      0.76
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   SRCPARAM L0040864     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040865     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040866     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040867     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040868     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040869     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040870     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040871     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040872     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040873     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040874     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040875     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040876     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040877     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040878     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040879     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040880     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040881     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040882     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040883     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040884     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040885     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040886     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040887     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040888     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040889     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040890     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040891     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040892     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040893     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040894     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040895     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040896     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040897     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040898     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040899     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040900     0.0000001504      0.00      1.70      0.76
   SRCPARAM L0040901     0.0000001504      0.00      1.70      0.76
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE12
   SRCPARAM L0040902     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040903     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040904     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040905     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040906     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040907     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040908     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040909     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040910     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040911     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040912     0.00000015      0.00      1.70      0.76
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SRCPARAM L0040913     0.00000015      0.00      1.70      0.76
SRCPARAM L0040914     0.00000015      0.00      1.70      0.76
SRCPARAM L0040915     0.00000015      0.00      1.70      0.76
SRCPARAM L0040916     0.00000015      0.00      1.70      0.76
SRCPARAM L0040917     0.00000015      0.00      1.70      0.76
SRCPARAM L0040918     0.00000015      0.00      1.70      0.76
SRCPARAM L0040919     0.00000015      0.00      1.70      0.76
SRCPARAM L0040920     0.00000015      0.00      1.70      0.76
SRCPARAM L0040921     0.00000015      0.00      1.70      0.76
SRCPARAM L0040922     0.00000015      0.00      1.70      0.76
SRCPARAM L0040923     0.00000015      0.00      1.70      0.76
SRCPARAM L0040924     0.00000015      0.00      1.70      0.76
SRCPARAM L0040925     0.00000015      0.00      1.70      0.76
SRCPARAM L0040926     0.00000015      0.00      1.70      0.76
SRCPARAM L0040927     0.00000015      0.00      1.70      0.76
SRCPARAM L0040928     0.00000015      0.00      1.70      0.76
SRCPARAM L0040929     0.00000015      0.00      1.70      0.76
SRCPARAM L0040930     0.00000015      0.00      1.70      0.76
SRCPARAM L0040931     0.00000015      0.00      1.70      0.76
SRCPARAM L0040932     0.00000015      0.00      1.70      0.76
SRCPARAM L0040933     0.00000015      0.00      1.70      0.76
SRCPARAM L0040934     0.00000015      0.00      1.70      0.76
SRCPARAM L0040935     0.00000015      0.00      1.70      0.76
SRCPARAM L0040936     0.00000015      0.00      1.70      0.76
SRCPARAM L0040937     0.00000015      0.00      1.70      0.76
SRCPARAM L0040938     0.00000015      0.00      1.70      0.76
SRCPARAM L0040939     0.00000015      0.00      1.70      0.76
SRCPARAM L0040940     0.00000015      0.00      1.70      0.76
SRCPARAM L0040941     0.00000015      0.00      1.70      0.76
SRCPARAM L0040942     0.00000015      0.00      1.70      0.76
SRCPARAM L0040943     0.00000015      0.00      1.70      0.76
SRCPARAM L0040944     0.00000015      0.00      1.70      0.76
SRCPARAM L0040945     0.00000015      0.00      1.70      0.76
SRCPARAM L0040946     0.00000015      0.00      1.70      0.76
SRCPARAM L0040947     0.00000015      0.00      1.70      0.76
SRCPARAM L0040948     0.00000015      0.00      1.70      0.76
SRCPARAM L0040949     0.00000015      0.00      1.70      0.76
SRCPARAM L0040950     0.00000015      0.00      1.70      0.76
SRCPARAM L0040951     0.00000015      0.00      1.70      0.76
SRCPARAM L0040952     0.00000015      0.00      1.70      0.76
SRCPARAM L0040953     0.00000015      0.00      1.70      0.76
SRCPARAM L0040954     0.00000015      0.00      1.70      0.76
SRCPARAM L0040955     0.00000015      0.00      1.70      0.76
SRCPARAM L0040956     0.00000015      0.00      1.70      0.76
SRCPARAM L0040957     0.00000015      0.00      1.70      0.76
SRCPARAM L0040958     0.00000015      0.00      1.70      0.76
SRCPARAM L0040959     0.00000015      0.00      1.70      0.76
SRCPARAM L0040960     0.00000015      0.00      1.70      0.76
SRCPARAM L0040961     0.00000015      0.00      1.70      0.76
SRCPARAM L0040962     0.00000015      0.00      1.70      0.76
SRCPARAM L0040963     0.00000015      0.00      1.70      0.76
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   SRCPARAM L0040964     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040965     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040966     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040967     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040968     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040969     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040970     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040971     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040972     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040973     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040974     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040975     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040976     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040977     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040978     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040979     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040980     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040981     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040982     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040983     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040984     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040985     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040986     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040987     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040988     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040989     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040990     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040991     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040992     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040993     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040994     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040995     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040996     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040997     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040998     0.00000015      0.00      1.70      0.76
   SRCPARAM L0040999     0.00000015      0.00      1.70      0.76
   SRCPARAM L0041000     0.00000015      0.00      1.70      0.76
   SRCPARAM L0041001     0.00000015      0.00      1.70      0.76
   SRCPARAM L0041002     0.00000015      0.00      1.70      0.76
   SRCPARAM L0041003     0.00000015      0.00      1.70      0.76
   SRCPARAM L0041004     0.00000015      0.00      1.70      0.76
   SRCPARAM L0041005     0.00000015      0.00      1.70      0.76
   SRCPARAM L0041006     0.00000015      0.00      1.70      0.76
   SRCPARAM L0041007     0.00000015      0.00      1.70      0.76
   SRCPARAM L0041008     0.00000015      0.00      1.70      0.76
   SRCPARAM L0041009     0.00000015      0.00      1.70      0.76
   SRCPARAM L0041010     0.00000015      0.00      1.70      0.76
   SRCPARAM L0041011     0.00000015      0.00      1.70      0.76
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE13
   SRCPARAM L0041012     0.0000001493      0.00      1.70      0.76
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SRCPARAM L0041013     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041014     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041015     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041016     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041017     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041018     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041019     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041020     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041021     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041022     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041023     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041024     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041025     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041026     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041027     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041028     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041029     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041030     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041031     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041032     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041033     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041034     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041035     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041036     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041037     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041038     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041039     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041040     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041041     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041042     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041043     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041044     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041045     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041046     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041047     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041048     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041049     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041050     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041051     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041052     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041053     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041054     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041055     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041056     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041057     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041058     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041059     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041060     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041061     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041062     0.0000001493      0.00      1.70      0.76
SRCPARAM L0041063     0.0000001493      0.00      1.70      0.76
```

```
   SRCPARAM L0041064     0.0000001493      0.00      1.70      0.76
   SRCPARAM L0041065     0.0000001493      0.00      1.70      0.76
   SRCPARAM L0041066     0.0000001493      0.00      1.70      0.76
   SRCPARAM L0041067     0.0000001493      0.00      1.70      0.76
   SRCPARAM L0041068     0.0000001493      0.00      1.70      0.76
   SRCPARAM L0041069     0.0000001493      0.00      1.70      0.76
   SRCPARAM L0041070     0.0000001493      0.00      1.70      0.76
   SRCPARAM L0041071     0.0000001493      0.00      1.70      0.76
   SRCPARAM L0041072     0.0000001493      0.00      1.70      0.76
   SRCPARAM L0041073     0.0000001493      0.00      1.70      0.76
   SRCPARAM L0041074     0.0000001493      0.00      1.70      0.76
   SRCPARAM L0041075     0.0000001493      0.00      1.70      0.76
   SRCPARAM L0041076     0.0000001493      0.00      1.70      0.76
   SRCPARAM L0041077     0.0000001493      0.00      1.70      0.76
   SRCPARAM L0041078     0.0000001493      0.00      1.70      0.76
   SRCPARAM L0041079     0.0000001493      0.00      1.70      0.76
   SRCPARAM L0041080     0.0000001493      0.00      1.70      0.76
   SRCPARAM L0041081     0.0000001493      0.00      1.70      0.76
   SRCPARAM L0041082     0.0000001493      0.00      1.70      0.76
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE14
   SRCPARAM L0041981     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0041982     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0041983     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0041984     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0041985     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0041986     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0041987     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0041988     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0041989     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0041990     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0041991     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0041992     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0041993     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0041994     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0041995     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0041996     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0041997     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0041998     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0041999     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0042000     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0042001     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0042002     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0042003     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0042004     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0042005     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0042006     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0042007     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0042008     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0042009     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0042010     0.00000006332      0.00      1.70      0.76
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SRCPARAM L0042011     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042012     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042013     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042014     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042015     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042016     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042017     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042018     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042019     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042020     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042021     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042022     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042023     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042024     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042025     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042026     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042027     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042028     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042029     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042030     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042031     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042032     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042033     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042034     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042035     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042036     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042037     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042038     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042039     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042040     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042041     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042042     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042043     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042044     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042045     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042046     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042047     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042048     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042049     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042050     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042051     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042052     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042053     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042054     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042055     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042056     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042057     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042058     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042059     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042060     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042061     0.00000006332      0.00      1.70      0.76
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SRCPARAM L0042062     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042063     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042064     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042065     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042066     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042067     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042068     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042069     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042070     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042071     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042072     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042073     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042074     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042075     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042076     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042077     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042078     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042079     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042080     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042081     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042082     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042083     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042084     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042085     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042086     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042087     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042088     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042089     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042090     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042091     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042092     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042093     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042094     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042095     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042096     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042097     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042098     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042099     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042100     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042101     0.00000006332      0.00      1.70      0.76
SRCPARAM L0042102     0.00000006332      0.00      1.70      0.76
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SRCPARAM L0042112     0.00000006332      0.00      1.70      0.76
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SRCPARAM L0042122     0.00000006332      0.00      1.70      0.76
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SRCPARAM L0042133     0.00000006332      0.00      1.70      0.76
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SRCPARAM L0042135     0.00000006332      0.00      1.70      0.76
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SRCPARAM L0042143     0.00000006332      0.00      1.70      0.76
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SRCPARAM L0042145     0.00000006332      0.00      1.70      0.76
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SRCPARAM L0042149     0.00000006332      0.00      1.70      0.76
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SRCPARAM L0042161     0.00000006332      0.00      1.70      0.76
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SRCPARAM L0042163     0.00000006332      0.00      1.70      0.76
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   SRCPARAM L0042172     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0042173     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0042174     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0042175     0.00000006332      0.00      1.70      0.76
   SRCPARAM L0042176     0.00000006332      0.00      1.70      0.76
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   SRCPARAM L0042178     0.00000006332      0.00      1.70      0.76
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SRCPARAM L0045957     0.00000003063      0.00      1.70      0.76
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SRCPARAM L0045963     0.00000003063      0.00      1.70      0.76
SRCPARAM L0045964     0.00000003063      0.00      1.70      0.76
SRCPARAM L0045965     0.00000003063      0.00      1.70      0.76
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SRCPARAM L0045967     0.00000003063      0.00      1.70      0.76
SRCPARAM L0045968     0.00000003063      0.00      1.70      0.76
SRCPARAM L0045969     0.00000003063      0.00      1.70      0.76
SRCPARAM L0045970     0.00000003063      0.00      1.70      0.76
SRCPARAM L0045971     0.00000003063      0.00      1.70      0.76
SRCPARAM L0045972     0.00000003063      0.00      1.70      0.76
SRCPARAM L0045973     0.00000003063      0.00      1.70      0.76
SRCPARAM L0045974     0.00000003063      0.00      1.70      0.76
SRCPARAM L0045975     0.00000003063      0.00      1.70      0.76
SRCPARAM L0045976     0.00000003063      0.00      1.70      0.76
SRCPARAM L0045977     0.00000003063      0.00      1.70      0.76
SRCPARAM L0045978     0.00000003063      0.00      1.70      0.76
SRCPARAM L0045979     0.00000003063      0.00      1.70      0.76
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SRCPARAM L0045981     0.00000003063      0.00      1.70      0.76
SRCPARAM L0045982     0.00000003063      0.00      1.70      0.76
SRCPARAM L0045983     0.00000003063      0.00      1.70      0.76
SRCPARAM L0045984     0.00000003063      0.00      1.70      0.76
SRCPARAM L0045985     0.00000003063      0.00      1.70      0.76
SRCPARAM L0045986     0.00000003063      0.00      1.70      0.76
SRCPARAM L0045987     0.00000003063      0.00      1.70      0.76
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SRCPARAM L0046023     0.00000003063      0.00      1.70      0.76
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SRCPARAM L0046026     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046027     0.00000003063      0.00      1.70      0.76
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SRCPARAM L0046029     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046030     0.00000003063      0.00      1.70      0.76
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SRCPARAM L0046032     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046033     0.00000003063      0.00      1.70      0.76
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SRCPARAM L0046035     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046036     0.00000003063      0.00      1.70      0.76
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SRCPARAM L0046038     0.00000003063      0.00      1.70      0.76
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SRCPARAM L0046048     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046049     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046050     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046051     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046052     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046053     0.00000003063      0.00      1.70      0.76
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SRCPARAM L0046055     0.00000003063      0.00      1.70      0.76
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SRCPARAM L0046058     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046059     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046060     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046061     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046062     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046063     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046064     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046065     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046066     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046067     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046068     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046069     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046070     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046071     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046072     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046073     0.00000003063      0.00      1.70      0.76
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SRCPARAM L0046076     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046077     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046078     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046079     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046080     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046081     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046082     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046083     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046084     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046085     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046086     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046087     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046088     0.00000003063      0.00      1.70      0.76
SRCPARAM L0046089     0.00000003063      0.00      1.70      0.76
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   SRCPARAM L0046093     0.00000003063      0.00      1.70      0.76
   SRCPARAM L0046094     0.00000003063      0.00      1.70      0.76
   SRCPARAM L0046095     0.00000003063      0.00      1.70      0.76
   SRCPARAM L0046096     0.00000003063      0.00      1.70      0.76
   SRCPARAM L0046097     0.00000003063      0.00      1.70      0.76
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   SRCPARAM L0041746     0.00000003265      0.00      1.70      0.76
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   SRCPARAM L0041749     0.00000003265      0.00      1.70      0.76
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   SRCPARAM L0041752     0.00000003265      0.00      1.70      0.76
   SRCPARAM L0041753     0.00000003265      0.00      1.70      0.76
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   SRCPARAM L0041755     0.00000003265      0.00      1.70      0.76
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   SRCPARAM L0041757     0.00000003265      0.00      1.70      0.76
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   SRCPARAM L0041760     0.00000003265      0.00      1.70      0.76
   SRCPARAM L0041761     0.00000003265      0.00      1.70      0.76
   SRCPARAM L0041762     0.00000003265      0.00      1.70      0.76
   SRCPARAM L0041763     0.00000003265      0.00      1.70      0.76
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   SRCPARAM L0041766     0.00000003265      0.00      1.70      0.76
   SRCPARAM L0041767     0.00000003265      0.00      1.70      0.76
   SRCPARAM L0041768     0.00000003265      0.00      1.70      0.76
   SRCPARAM L0041769     0.00000003265      0.00      1.70      0.76
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   SRCPARAM L0041772     0.00000003265      0.00      1.70      0.76
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   SRCPARAM L0041775     0.00000003265      0.00      1.70      0.76
   SRCPARAM L0041776     0.00000003265      0.00      1.70      0.76
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SRCPARAM L0041779     0.00000003265      0.00      1.70      0.76
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SRCPARAM L0041781     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041782     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041783     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041784     0.00000003265      0.00      1.70      0.76
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SRCPARAM L0041787     0.00000003265      0.00      1.70      0.76
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SRCPARAM L0041792     0.00000003265      0.00      1.70      0.76
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SRCPARAM L0041796     0.00000003265      0.00      1.70      0.76
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SRCPARAM L0041841     0.00000003265      0.00      1.70      0.76
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SRCPARAM L0041849     0.00000003265      0.00      1.70      0.76
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SRCPARAM L0041852     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041853     0.00000003265      0.00      1.70      0.76
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SRCPARAM L0041872     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041873     0.00000003265      0.00      1.70      0.76
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SRCPARAM L0041876     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041877     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041878     0.00000003265      0.00      1.70      0.76
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SRCPARAM L0041879     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041880     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041881     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041882     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041883     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041884     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041885     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041886     0.00000003265      0.00      1.70      0.76
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SRCPARAM L0041890     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041891     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041892     0.00000003265      0.00      1.70      0.76
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SRCPARAM L0041906     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041907     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041908     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041909     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041910     0.00000003265      0.00      1.70      0.76
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SRCPARAM L0041917     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041918     0.00000003265      0.00      1.70      0.76
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SRCPARAM L0041920     0.00000003265      0.00      1.70      0.76
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SRCPARAM L0041927     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041928     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041929     0.00000003265      0.00      1.70      0.76
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SRCPARAM L0041932     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041933     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041934     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041935     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041936     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041937     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041938     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041939     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041940     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041941     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041942     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041943     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041944     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041945     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041946     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041947     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041948     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041949     0.00000003265      0.00      1.70      0.76
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SRCPARAM L0041954     0.00000003265      0.00      1.70      0.76
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SRCPARAM L0041956     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041957     0.00000003265      0.00      1.70      0.76
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SRCPARAM L0041959     0.00000003265      0.00      1.70      0.76
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SRCPARAM L0041969     0.00000003265      0.00      1.70      0.76
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SRCPARAM L0041971     0.00000003265      0.00      1.70      0.76
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SRCPARAM L0041974     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041975     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041976     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041977     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041978     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041979     0.00000003265      0.00      1.70      0.76
SRCPARAM L0041980     0.00000003265      0.00      1.70      0.76
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   SRCPARAM L0040128     0.00000006135      0.00      1.70      0.76
   SRCPARAM L0040129     0.00000006135      0.00      1.70      0.76
   SRCPARAM L0040130     0.00000006135      0.00      1.70      0.76
   SRCPARAM L0040131     0.00000006135      0.00      1.70      0.76
   SRCPARAM L0040132     0.00000006135      0.00      1.70      0.76
   SRCPARAM L0040133     0.00000006135      0.00      1.70      0.76
   SRCPARAM L0040134     0.00000006135      0.00      1.70      0.76
   SRCPARAM L0040135     0.00000006135      0.00      1.70      0.76
   SRCPARAM L0040136     0.00000006135      0.00      1.70      0.76
   SRCPARAM L0040137     0.00000006135      0.00      1.70      0.76
   SRCPARAM L0040138     0.00000006135      0.00      1.70      0.76
   SRCPARAM L0040139     0.00000006135      0.00      1.70      0.76
   SRCPARAM L0040140     0.00000006135      0.00      1.70      0.76
   SRCPARAM L0040141     0.00000006135      0.00      1.70      0.76
   SRCPARAM L0040142     0.00000006135      0.00      1.70      0.76
   SRCPARAM L0040143     0.00000006135      0.00      1.70      0.76
   SRCPARAM L0040144     0.00000006135      0.00      1.70      0.76
   SRCPARAM L0040145     0.00000006135      0.00      1.70      0.76
   SRCPARAM L0040146     0.00000006135      0.00      1.70      0.76
   SRCPARAM L0040147     0.00000006135      0.00      1.70      0.76
   SRCPARAM L0040148     0.00000006135      0.00      1.70      0.76
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   SRCPARAM L0040153     0.00000006135      0.00      1.70      0.76
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   SRCPARAM L0040170     0.00000006135      0.00      1.70      0.76
   SRCPARAM L0040171     0.00000006135      0.00      1.70      0.76
   SRCPARAM L0040172     0.00000006135      0.00      1.70      0.76
   SRCPARAM L0040173     0.00000006135      0.00      1.70      0.76
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SRCPARAM L0040176     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040177     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040178     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040179     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040180     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040181     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040182     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040183     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040184     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040185     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040186     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040187     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040188     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040189     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040190     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040191     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040192     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040193     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040194     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040195     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040196     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040197     0.00000006135      0.00      1.70      0.76
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SRCPARAM L0040222     0.00000006135      0.00      1.70      0.76
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SRCPARAM L0040224     0.00000006135      0.00      1.70      0.76
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SRCPARAM L0040228     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040229     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040230     0.00000006135      0.00      1.70      0.76
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SRCPARAM L0040232     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040233     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040234     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040235     0.00000006135      0.00      1.70      0.76
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SRCPARAM L0040272     0.00000006135      0.00      1.70      0.76
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SRCPARAM L0040612     0.00000006135      0.00      1.70      0.76
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SRCPARAM L0040615     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040616     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040617     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040618     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040619     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040620     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040621     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040622     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040623     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040624     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040625     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040626     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040627     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040628     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040629     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040630     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040631     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040632     0.00000006135      0.00      1.70      0.76
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SRCPARAM L0040635     0.00000006135      0.00      1.70      0.76
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SRCPARAM L0040637     0.00000006135      0.00      1.70      0.76
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SRCPARAM L0040683     0.00000006135      0.00      1.70      0.76
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SRCPARAM L0040725     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040726     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040727     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040728     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040729     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040730     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040731     0.00000006135      0.00      1.70      0.76
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SRCPARAM L0040733     0.00000006135      0.00      1.70      0.76
SRCPARAM L0040734     0.00000006135      0.00      1.70      0.76
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   SRCPARAM L0040775     0.00000006135      0.00      1.70      0.76
   SRCPARAM L0040776     0.00000006135      0.00      1.70      0.76
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** Building Downwash **
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   BUILDHGT STCK1            9.14     9.14     9.14     9.14     9.14     9.14
   BUILDHGT STCK1            9.14     9.14     9.14     9.14     9.14     9.14
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BUILDHGT STCK2          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK2          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK2          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK2          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK2          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK2          9.14    9.14    9.14    9.14    9.14    9.14

BUILDHGT STCK3          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK3          9.14    9.14    0.00    9.14    9.14    9.14
BUILDHGT STCK3          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK3          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK3          9.14    9.14    0.00    9.14    9.14    9.14
BUILDHGT STCK3          9.14    9.14    9.14    9.14    9.14    9.14

BUILDHGT STCK4          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK4          9.14    9.14    0.00    9.14    9.14    9.14
BUILDHGT STCK4          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK4          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK4          9.14    9.14    0.00    9.14    9.14    9.14
BUILDHGT STCK4          9.14    9.14    9.14    9.14    9.14    9.14

BUILDHGT STCK5          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK5          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK5          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK5          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK5          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK5          9.14    9.14    9.14    9.14    9.14    9.14

BUILDHGT STCK6          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK6          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK6          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK6          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK6          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK6          9.14    9.14    9.14    9.14    9.14    9.14

BUILDHGT STCK7          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK7          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK7          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK7          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK7          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK7          9.14    9.14    9.14    9.14    9.14    9.14

BUILDHGT STCK8          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK8          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK8          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK8          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK8          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK8          9.14    9.14    9.14    9.14    9.14    9.14

BUILDHGT STCK9          9.14    9.14    9.14    9.14    9.14    9.14
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BUILDHGT STCK9          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK9          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK9          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK9          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK9          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK10         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK10         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK10         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK10         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK10         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK10         9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK11         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK11         9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK11         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK11         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK11         9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK11         9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK12         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK12         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK12         9.14     9.14     9.14     9.14     9.14     9.14
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BUILDHGT STCK12         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK12         9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK13         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK13         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK13         9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK13         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK13         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK13         9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK14         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK14         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK14         9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK14         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK14         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK14         9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK15         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK15         9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK15         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK15         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK15         9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK15         9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK16         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK16         9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK16         9.14     9.14     9.14     9.14     9.14     9.14
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BUILDHGT STCK16          9.14     9.14     9.14     9.14     9.14     9.14
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BUILDHGT STCK16          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK18          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK18          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK18          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK18          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK18          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK18          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK19          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK19          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK19          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK19          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK19          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK19          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK20          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK20          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK20          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK20          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK20          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK20          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK21          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK21          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK21          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK21          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK21          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK21          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK22          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK22          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK22          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK22          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK22          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK22          9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK23          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK23          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK23          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK23          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK23          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK23          9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK24          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK24          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK24          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK24          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK24          9.14     9.14     9.14     9.14     9.14     9.14
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BUILDHGT STCK24          9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK25          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK25          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK25          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK25          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK25          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK25          9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK26          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK26          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK26          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK26          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK26          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK26          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK27          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK27          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK27          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK27          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK27          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK27          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK28          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK28          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK28          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK28          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK28          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK28          9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK29          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK29          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK29          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK29          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK29          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK29          9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK30          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK30          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK30          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK30          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK30          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK30          9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK31          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK31          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK31          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK31          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK31          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK31          9.14     9.14     9.14     9.14     9.14     0.00
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BUILDHGT STCK32	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK32	9.14	9.14	0.00	9.14	9.14	9.14
BUILDHGT STCK32	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK32	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK32	9.14	9.14	0.00	9.14	9.14	9.14
BUILDHGT STCK32	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK33	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK33	9.14	9.14	0.00	9.14	9.14	9.14
BUILDHGT STCK33	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK33	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK33	9.14	9.14	0.00	9.14	9.14	9.14
BUILDHGT STCK33	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK34	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK34	9.14	9.14	0.00	9.14	9.14	9.14
BUILDHGT STCK34	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK34	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK34	9.14	9.14	0.00	9.14	9.14	9.14
BUILDHGT STCK34	9.14	9.14	9.14	9.14	9.14	9.14
BUILDWID STCK1	142.74	146.83	146.45	141.63	132.50	119.35
BUILDWID STCK1	102.57	82.67	61.18	83.50	103.27	119.91
BUILDWID STCK1	132.91	141.87	146.52	146.71	142.45	134.32
BUILDWID STCK1	142.74	146.83	146.45	141.63	132.50	119.35
BUILDWID STCK1	102.57	82.67	61.18	83.50	103.27	119.91
BUILDWID STCK1	132.91	141.87	146.52	146.71	142.45	134.32
BUILDWID STCK2	45.98	55.15	62.64	68.23	71.75	73.08
BUILDWID STCK2	72.20	69.12	63.94	67.33	70.98	72.47
BUILDWID STCK2	71.76	68.87	63.88	56.96	48.30	38.18
BUILDWID STCK2	45.98	55.15	62.64	68.23	71.75	73.08
BUILDWID STCK2	72.20	69.12	63.94	67.33	70.98	72.47
BUILDWID STCK2	71.76	68.87	63.88	56.96	48.30	38.18
BUILDWID STCK3	74.66	78.71	80.36	150.50	142.52	130.20
BUILDWID STCK3	113.93	53.58	0.00	54.00	63.57	71.20
BUILDWID STCK3	76.67	151.60	155.07	153.82	147.90	137.49
BUILDWID STCK3	146.75	152.65	153.92	150.50	142.52	130.20
BUILDWID STCK3	113.93	53.58	0.00	54.00	63.57	71.20
BUILDWID STCK3	76.67	151.60	155.07	153.82	147.90	68.34
BUILDWID STCK4	146.75	152.65	153.92	83.64	80.18	74.28
BUILDWID STCK4	66.12	55.96	0.00	55.10	114.68	131.10
BUILDWID STCK4	143.53	151.60	155.07	153.82	147.90	137.49
BUILDWID STCK4	146.75	152.65	153.92	83.64	80.18	74.28
BUILDWID STCK4	66.12	55.96	0.00	55.10	114.68	131.10
BUILDWID STCK4	143.53	151.60	84.13	82.62	78.60	72.19
BUILDWID STCK5	142.74	146.83	146.45	141.63	132.50	119.35
BUILDWID STCK5	102.57	82.67	61.18	83.50	103.27	119.91

BUILDWID STCK5	132.91	141.87	146.52	146.71	142.45	134.32
BUILDWID STCK5	142.74	146.83	146.45	141.63	132.50	119.35
BUILDWID STCK5	102.57	82.67	61.18	83.50	103.27	119.91
BUILDWID STCK5	132.91	141.87	146.52	146.71	142.45	134.32
BUILDWID STCK6	145.11	149.43	149.22	144.47	135.34	122.09
BUILDWID STCK6	105.13	84.97	63.86	85.66	105.40	121.94
BUILDWID STCK6	134.77	143.51	147.89	147.77	143.17	136.37
BUILDWID STCK6	145.11	149.43	149.22	144.47	135.34	122.09
BUILDWID STCK6	105.13	84.97	63.86	85.66	105.40	121.94
BUILDWID STCK6	134.77	143.51	147.89	147.77	143.17	136.37
BUILDWID STCK7	145.11	149.43	149.22	144.47	135.34	122.09
BUILDWID STCK7	105.13	84.97	63.86	85.66	105.40	121.94
BUILDWID STCK7	134.77	143.51	147.89	147.77	143.17	136.37
BUILDWID STCK7	145.11	149.43	149.22	144.47	135.34	122.09
BUILDWID STCK7	105.13	84.97	63.86	85.66	105.40	121.94
BUILDWID STCK7	134.77	143.51	147.89	147.77	143.17	136.37
BUILDWID STCK8	44.94	53.93	61.28	66.77	70.24	71.56
BUILDWID STCK8	70.72	67.72	62.91	67.96	70.94	71.77
BUILDWID STCK8	70.42	66.93	61.40	54.01	44.98	34.58
BUILDWID STCK8	44.94	53.93	61.28	66.77	70.24	71.56
BUILDWID STCK8	70.72	67.72	62.91	67.96	70.94	71.77
BUILDWID STCK8	70.42	66.93	61.40	54.01	44.98	34.58
BUILDWID STCK9	145.39	149.74	149.55	144.82	135.68	122.42
BUILDWID STCK9	105.44	85.26	0.00	85.74	105.73	122.50
BUILDWID STCK9	135.55	144.48	149.03	149.04	144.53	136.61
BUILDWID STCK9	145.39	149.74	149.55	144.82	135.68	122.42
BUILDWID STCK9	105.44	85.26	0.00	85.74	105.73	122.50
BUILDWID STCK9	135.55	144.48	149.03	149.04	144.53	136.61
BUILDWID STCK10	145.39	149.74	149.55	144.82	135.68	122.42
BUILDWID STCK10	105.44	85.26	63.49	85.74	105.73	122.50
BUILDWID STCK10	135.55	144.48	149.03	149.04	144.53	136.61
BUILDWID STCK10	145.39	149.74	149.55	144.82	135.68	122.42
BUILDWID STCK10	105.44	85.26	63.49	85.74	105.73	122.50
BUILDWID STCK10	135.55	144.48	149.03	149.04	144.53	136.61
BUILDWID STCK11	147.84	151.91	151.37	146.23	136.64	122.90
BUILDWID STCK11	105.43	84.75	0.00	86.07	107.04	124.75
BUILDWID STCK11	138.68	148.39	153.59	154.12	149.98	141.27
BUILDWID STCK11	147.84	151.91	151.37	146.23	136.64	122.90
BUILDWID STCK11	105.43	84.75	0.00	86.07	107.04	124.75
BUILDWID STCK11	138.68	148.39	153.59	154.12	149.98	141.27
BUILDWID STCK12	147.84	151.91	151.37	146.23	136.64	122.90
BUILDWID STCK12	105.43	84.75	63.16	86.07	107.04	124.75
BUILDWID STCK12	138.68	148.39	153.59	154.12	149.98	141.27
BUILDWID STCK12	147.84	151.91	151.37	146.23	136.64	122.90

BUILDWID STCK12	105.43	84.75	63.16	86.07	107.04	124.75
BUILDWID STCK12	138.68	148.39	153.59	154.12	149.98	141.27
BUILDWID STCK13	86.26	103.64	117.88	128.53	135.28	137.92
BUILDWID STCK13	136.37	130.68	121.93	131.22	136.85	138.32
BUILDWID STCK13	135.59	128.74	117.97	103.62	86.12	0.00
BUILDWID STCK13	86.26	103.64	117.88	128.53	135.28	137.92
BUILDWID STCK13	136.37	130.68	121.93	131.22	136.85	138.32
BUILDWID STCK13	135.59	128.74	117.97	103.62	86.12	0.00
BUILDWID STCK14	86.26	103.64	117.88	128.53	135.28	137.92
BUILDWID STCK14	136.37	130.68	121.93	131.22	136.85	138.32
BUILDWID STCK14	135.59	128.74	117.97	103.62	86.12	0.00
BUILDWID STCK14	86.26	103.64	117.88	128.53	135.28	137.92
BUILDWID STCK14	136.37	130.68	121.93	131.22	136.85	138.32
BUILDWID STCK14	135.59	128.74	117.97	103.62	86.12	0.00
BUILDWID STCK15	144.26	148.49	148.22	143.44	134.30	121.08
BUILDWID STCK15	104.18	84.12	0.00	83.70	104.02	121.17
BUILDWID STCK15	134.65	144.03	149.04	149.52	145.45	136.97
BUILDWID STCK15	144.26	148.49	148.22	143.44	134.30	121.08
BUILDWID STCK15	104.18	84.12	0.00	83.70	104.02	121.17
BUILDWID STCK15	134.65	144.03	149.04	149.52	145.45	136.97
BUILDWID STCK16	144.26	148.49	148.22	143.44	134.30	121.08
BUILDWID STCK16	104.18	84.12	0.00	83.70	104.02	121.17
BUILDWID STCK16	134.65	144.03	149.04	149.52	145.45	136.97
BUILDWID STCK16	144.26	148.49	148.22	143.44	134.30	121.08
BUILDWID STCK16	104.18	84.12	0.00	83.70	104.02	121.17
BUILDWID STCK16	134.65	144.03	149.04	149.52	145.45	136.97
BUILDWID STCK18	145.39	149.99	150.02	145.50	136.56	123.47
BUILDWID STCK18	106.63	86.54	0.00	85.37	105.38	122.19
BUILDWID STCK18	135.29	144.27	148.87	148.95	144.50	136.38
BUILDWID STCK18	145.39	149.99	150.02	145.50	136.56	123.47
BUILDWID STCK18	106.63	86.54	0.00	85.37	105.38	122.19
BUILDWID STCK18	135.29	144.27	148.87	148.95	144.50	136.38
BUILDWID STCK19	145.39	149.99	150.02	145.50	136.56	123.47
BUILDWID STCK19	106.63	86.54	0.00	85.37	105.38	122.19
BUILDWID STCK19	135.29	144.27	148.87	148.95	144.50	136.38
BUILDWID STCK19	145.39	149.99	150.02	145.50	136.56	123.47
BUILDWID STCK19	106.63	86.54	0.00	85.37	105.38	122.19
BUILDWID STCK19	135.29	144.27	148.87	148.95	144.50	136.38
BUILDWID STCK20	147.03	151.26	150.89	145.94	136.56	123.02
BUILDWID STCK20	105.75	85.27	0.00	85.37	105.97	123.35
BUILDWID STCK20	136.98	146.45	151.47	151.88	147.69	139.00
BUILDWID STCK20	147.03	151.26	150.89	145.94	136.56	123.02
BUILDWID STCK20	105.75	85.27	0.00	85.37	105.97	123.35
BUILDWID STCK20	136.98	146.45	151.47	151.88	147.69	139.00

BUILDWID STCK21	147.03	151.26	150.89	145.94	136.56	123.02
BUILDWID STCK21	105.75	85.27	0.00	85.37	105.97	123.35
BUILDWID STCK21	136.98	146.45	151.47	151.88	147.69	139.00
BUILDWID STCK21	147.03	151.26	150.89	145.94	136.56	123.02
BUILDWID STCK21	105.75	85.27	0.00	85.37	105.97	123.35
BUILDWID STCK21	136.98	146.45	151.47	151.88	147.69	139.00
BUILDWID STCK22	49.74	58.98	66.42	71.84	75.08	76.04
BUILDWID STCK22	74.69	71.07	65.57	70.27	73.68	74.85
BUILDWID STCK22	73.75	70.40	64.92	57.46	48.26	0.00
BUILDWID STCK22	49.75	58.98	66.42	71.84	75.08	76.04
BUILDWID STCK22	74.69	71.07	65.57	70.27	73.68	74.85
BUILDWID STCK22	73.75	70.40	64.92	57.46	48.26	0.00
BUILDWID STCK23	44.63	54.01	61.75	145.94	136.56	123.02
BUILDWID STCK23	105.75	85.27	63.18	85.37	105.97	123.35
BUILDWID STCK23	136.98	146.45	61.28	53.42	43.94	0.00
BUILDWID STCK23	44.63	54.01	61.75	145.94	136.56	123.02
BUILDWID STCK23	105.75	69.70	65.17	69.93	105.97	123.35
BUILDWID STCK23	136.98	146.45	61.28	53.42	43.94	0.00
BUILDWID STCK24	92.18	111.73	127.89	140.17	148.18	151.69
BUILDWID STCK24	150.60	144.93	135.13	143.68	148.71	149.23
BUILDWID STCK24	145.21	136.78	124.19	107.83	88.20	0.00
BUILDWID STCK24	92.18	111.73	127.89	140.17	148.18	151.69
BUILDWID STCK24	150.60	144.93	135.13	143.68	148.71	149.23
BUILDWID STCK24	145.21	136.78	124.19	107.83	88.20	0.00
BUILDWID STCK25	92.18	111.73	127.89	140.17	148.18	151.69
BUILDWID STCK25	150.60	144.93	135.13	143.68	148.71	149.23
BUILDWID STCK25	145.21	136.78	124.19	107.83	88.20	0.00
BUILDWID STCK25	92.18	111.73	127.89	140.17	148.18	151.69
BUILDWID STCK25	150.60	144.93	135.13	143.68	148.71	149.23
BUILDWID STCK25	145.21	136.78	124.19	107.83	88.20	0.00
BUILDWID STCK26	146.57	152.99	154.77	151.84	144.30	132.37
BUILDWID STCK26	116.43	96.94	0.00	97.88	117.43	133.41
BUILDWID STCK26	145.34	152.85	155.72	153.86	147.32	136.33
BUILDWID STCK26	146.57	152.99	154.77	151.84	144.30	132.37
BUILDWID STCK26	116.43	96.94	0.00	97.88	117.43	133.41
BUILDWID STCK26	145.34	152.85	155.72	153.86	147.32	136.33
BUILDWID STCK27	146.57	152.99	154.77	151.84	144.30	132.37
BUILDWID STCK27	116.43	96.94	0.00	97.88	117.43	133.41
BUILDWID STCK27	145.34	152.85	155.72	153.86	147.32	136.33
BUILDWID STCK27	146.57	152.99	154.77	151.84	144.30	132.37
BUILDWID STCK27	116.43	96.94	0.00	97.88	117.43	133.41
BUILDWID STCK27	145.34	152.85	155.72	153.86	147.32	136.33
BUILDWID STCK28	49.33	60.63	70.09	151.84	144.30	132.37

BUILDWID STCK28	116.43	96.94	75.35	97.88	117.43	133.41
BUILDWID STCK28	145.34	152.85	68.46	58.77	47.29	0.00
BUILDWID STCK28	49.33	60.63	70.09	151.84	144.30	132.37
BUILDWID STCK28	116.43	82.08	77.39	82.18	117.43	133.41
BUILDWID STCK28	145.34	152.85	68.46	58.77	47.29	0.00
BUILDWID STCK29	93.45	115.86	134.74	149.54	159.79	165.18
BUILDWID STCK29	165.56	160.90	77.39	82.18	84.48	84.21
BUILDWID STCK29	81.38	76.07	68.46	113.20	90.89	0.00
BUILDWID STCK29	93.45	115.86	134.74	149.54	159.79	165.18
BUILDWID STCK29	165.56	160.90	151.36	159.31	163.61	162.95
BUILDWID STCK29	157.33	146.93	132.07	113.20	90.89	0.00
BUILDWID STCK30	93.45	115.86	134.74	149.54	159.79	165.18
BUILDWID STCK30	165.56	160.90	151.36	159.31	163.61	162.95
BUILDWID STCK30	157.33	146.93	132.07	113.20	90.89	0.00
BUILDWID STCK30	93.45	115.86	134.74	149.54	159.79	165.18
BUILDWID STCK30	165.56	160.90	151.36	159.31	163.61	162.95
BUILDWID STCK30	157.33	146.93	132.07	113.20	90.89	0.00
BUILDWID STCK31	49.17	60.63	153.92	150.50	142.52	130.20
BUILDWID STCK31	113.93	94.20	72.40	94.78	114.68	131.10
BUILDWID STCK31	143.53	151.60	68.30	58.65	47.21	0.00
BUILDWID STCK31	49.17	60.63	153.92	150.50	142.52	130.20
BUILDWID STCK31	113.93	82.86	77.75	81.92	114.68	131.10
BUILDWID STCK31	143.53	151.60	68.30	58.65	47.21	0.00
BUILDWID STCK32	146.75	152.65	153.92	150.50	142.52	130.20
BUILDWID STCK32	113.93	94.20	0.00	94.78	114.68	131.10
BUILDWID STCK32	143.53	151.60	155.07	153.82	147.90	137.49
BUILDWID STCK32	146.75	152.65	153.92	150.50	142.52	130.20
BUILDWID STCK32	113.93	94.20	0.00	94.78	114.68	131.10
BUILDWID STCK32	143.53	151.60	155.07	153.82	147.90	137.49
BUILDWID STCK33	146.75	152.65	153.92	150.50	142.52	130.20
BUILDWID STCK33	113.93	94.20	0.00	94.78	114.68	131.10
BUILDWID STCK33	143.53	151.60	155.07	153.82	147.90	137.49
BUILDWID STCK33	146.75	152.65	153.92	150.50	142.52	130.20
BUILDWID STCK33	113.93	94.20	0.00	94.78	114.68	131.10
BUILDWID STCK33	143.53	151.60	155.07	153.82	147.90	137.49
BUILDWID STCK34	47.74	53.41	57.45	83.64	80.18	74.28
BUILDWID STCK34	66.12	55.96	0.00	51.10	55.69	58.59
BUILDWID STCK34	59.71	59.02	68.30	58.65	47.21	36.22
BUILDWID STCK34	49.17	60.63	70.24	59.74	60.22	58.87
BUILDWID STCK34	55.73	50.90	0.00	51.10	55.69	58.59
BUILDWID STCK34	59.71	59.02	56.54	52.33	46.54	40.63
BUILDLEN STCK1	83.50	103.27	119.91	132.91	141.87	146.52
BUILDLEN STCK1	146.71	142.45	134.32	142.74	146.83	146.45
BUILDLEN STCK1	141.63	132.50	119.35	102.57	82.67	61.18

BUILDLEN STCK1	83.50	103.27	119.91	132.91	141.87	146.52
BUILDLEN STCK1	146.71	142.45	134.32	142.74	146.83	146.45
BUILDLEN STCK1	141.63	132.50	119.35	102.57	82.67	61.18
BUILDLEN STCK2	67.33	70.98	72.47	71.76	68.87	63.88
BUILDLEN STCK2	56.96	48.30	38.18	45.98	55.15	62.64
BUILDLEN STCK2	68.23	71.75	73.08	72.20	69.12	63.94
BUILDLEN STCK2	67.33	70.98	72.47	71.76	68.87	63.88
BUILDLEN STCK2	56.96	48.30	38.18	45.98	55.15	62.64
BUILDLEN STCK2	68.23	71.75	73.08	72.20	69.12	63.94
BUILDLEN STCK3	54.00	63.57	71.20	143.53	151.60	155.07
BUILDLEN STCK3	153.82	74.68	0.00	74.66	78.71	80.36
BUILDLEN STCK3	79.58	142.52	130.20	113.93	94.20	72.40
BUILDLEN STCK3	94.78	114.68	131.10	143.53	151.60	155.07
BUILDLEN STCK3	153.82	74.68	0.00	74.66	78.71	80.36
BUILDLEN STCK3	79.58	142.52	130.20	113.93	94.20	42.79
BUILDLEN STCK4	94.78	114.68	131.10	79.51	83.08	84.13
BUILDLEN STCK4	82.62	78.60	0.00	78.75	152.65	153.92
BUILDLEN STCK4	150.50	142.52	130.20	113.93	94.20	72.40
BUILDLEN STCK4	94.78	114.68	131.10	79.51	83.08	84.13
BUILDLEN STCK4	82.62	78.60	0.00	78.75	152.65	153.92
BUILDLEN STCK4	150.50	142.52	74.28	66.12	55.96	44.09
BUILDLEN STCK5	83.50	103.27	119.91	132.91	141.87	146.52
BUILDLEN STCK5	146.71	142.45	134.32	142.74	146.83	146.45
BUILDLEN STCK5	141.63	132.50	119.35	102.57	82.67	61.18
BUILDLEN STCK5	83.50	103.27	119.91	132.91	141.87	146.52
BUILDLEN STCK5	146.71	142.45	134.32	142.74	146.83	146.45
BUILDLEN STCK5	141.63	132.50	119.35	102.57	82.67	61.18
BUILDLEN STCK6	85.66	105.40	121.94	134.77	143.51	147.89
BUILDLEN STCK6	147.77	143.17	136.37	145.11	149.43	149.22
BUILDLEN STCK6	144.47	135.34	122.09	105.13	84.97	63.86
BUILDLEN STCK6	85.66	105.40	121.94	134.77	143.51	147.89
BUILDLEN STCK6	147.77	143.17	136.37	145.11	149.43	149.22
BUILDLEN STCK6	144.47	135.34	122.09	105.13	84.97	63.86
BUILDLEN STCK7	85.66	105.40	121.94	134.77	143.51	147.89
BUILDLEN STCK7	147.77	143.17	136.37	145.11	149.43	149.22
BUILDLEN STCK7	144.47	135.34	122.09	105.13	84.97	63.86
BUILDLEN STCK7	85.66	105.40	121.94	134.77	143.51	147.89
BUILDLEN STCK7	147.77	143.17	136.37	145.11	149.43	149.22
BUILDLEN STCK7	144.47	135.34	122.09	105.13	84.97	63.86
BUILDLEN STCK8	67.96	70.94	71.77	70.42	66.93	61.40
BUILDLEN STCK8	54.01	44.98	34.58	44.94	53.93	61.28
BUILDLEN STCK8	66.77	70.24	71.56	70.72	67.72	62.91
BUILDLEN STCK8	67.96	70.94	71.77	70.42	66.93	61.40
BUILDLEN STCK8	54.01	44.98	34.58	44.94	53.93	61.28

BUILDLEN STCK8	66.77	70.24	71.56	70.72	67.72	62.91
BUILDLEN STCK9	85.74	105.73	122.50	135.55	144.48	149.03
BUILDLEN STCK9	149.04	144.53	0.00	145.39	149.74	149.55
BUILDLEN STCK9	144.82	135.68	122.42	105.44	85.26	63.49
BUILDLEN STCK9	85.74	105.73	122.50	135.55	144.48	149.03
BUILDLEN STCK9	149.04	144.53	0.00	145.39	149.74	149.55
BUILDLEN STCK9	144.82	135.68	122.42	105.44	85.26	63.49
BUILDLEN STCK10	85.74	105.73	122.50	135.55	144.48	149.03
BUILDLEN STCK10	149.04	144.53	136.61	145.39	149.74	149.55
BUILDLEN STCK10	144.82	135.68	122.42	105.44	85.26	63.49
BUILDLEN STCK10	85.74	105.73	122.50	135.55	144.48	149.03
BUILDLEN STCK10	149.04	144.53	136.61	145.39	149.74	149.55
BUILDLEN STCK10	144.82	135.68	122.42	105.44	85.26	63.49
BUILDLEN STCK11	86.07	107.04	124.75	138.68	148.39	153.59
BUILDLEN STCK11	154.12	149.98	0.00	147.84	151.91	151.37
BUILDLEN STCK11	146.23	136.64	122.90	105.43	84.75	63.16
BUILDLEN STCK11	86.07	107.04	124.75	138.68	148.39	153.59
BUILDLEN STCK11	154.12	149.98	0.00	147.84	151.91	151.37
BUILDLEN STCK11	146.23	136.64	122.90	105.43	84.75	63.16
BUILDLEN STCK12	86.07	107.04	124.75	138.68	148.39	153.59
BUILDLEN STCK12	154.12	149.98	141.27	147.84	151.91	151.37
BUILDLEN STCK12	146.23	136.64	122.90	105.43	84.75	63.16
BUILDLEN STCK12	86.07	107.04	124.75	138.68	148.39	153.59
BUILDLEN STCK12	154.12	149.98	141.27	147.84	151.91	151.37
BUILDLEN STCK12	146.23	136.64	122.90	105.43	84.75	63.16
BUILDLEN STCK13	131.22	136.85	138.32	135.59	128.74	117.97
BUILDLEN STCK13	103.62	86.12	66.47	86.26	103.64	117.88
BUILDLEN STCK13	128.53	135.28	137.92	136.37	130.68	0.00
BUILDLEN STCK13	131.22	136.85	138.32	135.59	128.74	117.97
BUILDLEN STCK13	103.62	86.12	66.47	86.26	103.64	117.88
BUILDLEN STCK13	128.53	135.28	137.92	136.37	130.68	0.00
BUILDLEN STCK14	131.22	136.85	138.32	135.59	128.74	117.97
BUILDLEN STCK14	103.62	86.12	66.47	86.26	103.64	117.88
BUILDLEN STCK14	128.53	135.28	137.92	136.37	130.68	0.00
BUILDLEN STCK14	131.22	136.85	138.32	135.59	128.74	117.97
BUILDLEN STCK14	103.62	86.12	66.47	86.26	103.64	117.88
BUILDLEN STCK14	128.53	135.28	137.92	136.37	130.68	0.00
BUILDLEN STCK15	83.70	104.02	121.17	134.65	144.03	149.04
BUILDLEN STCK15	149.52	145.45	0.00	144.26	148.49	148.22
BUILDLEN STCK15	143.44	134.30	121.08	104.18	84.12	61.50
BUILDLEN STCK15	83.70	104.02	121.17	134.65	144.03	149.04
BUILDLEN STCK15	149.52	145.45	0.00	144.26	148.49	148.22
BUILDLEN STCK15	143.44	134.30	121.08	104.18	84.12	61.50

BUILDLEN STCK16	83.70	104.02	121.17	134.65	144.03	149.04
BUILDLEN STCK16	149.52	145.45	0.00	144.26	148.49	148.22
BUILDLEN STCK16	143.44	134.30	121.08	104.18	84.12	61.50
BUILDLEN STCK16	83.70	104.02	121.17	134.65	144.03	149.04
BUILDLEN STCK16	149.52	145.45	0.00	144.26	148.49	148.22
BUILDLEN STCK16	143.44	134.30	121.08	104.18	84.12	61.50
BUILDLEN STCK18	85.37	105.38	122.19	135.29	144.27	148.87
BUILDLEN STCK18	148.95	144.50	0.00	145.39	149.99	150.02
BUILDLEN STCK18	145.50	136.56	123.47	106.63	86.54	63.83
BUILDLEN STCK18	85.37	105.38	122.19	135.29	144.27	148.87
BUILDLEN STCK18	148.95	144.50	0.00	145.39	149.99	150.02
BUILDLEN STCK18	145.50	136.56	123.47	106.63	86.54	63.83
BUILDLEN STCK19	85.37	105.38	122.19	135.29	144.27	148.87
BUILDLEN STCK19	148.95	144.50	0.00	145.39	149.99	150.02
BUILDLEN STCK19	145.50	136.56	123.47	106.63	86.54	63.83
BUILDLEN STCK19	85.37	105.38	122.19	135.29	144.27	148.87
BUILDLEN STCK19	148.95	144.50	0.00	145.39	149.99	150.02
BUILDLEN STCK19	145.50	136.56	123.47	106.63	86.54	63.83
BUILDLEN STCK20	85.37	105.97	123.35	136.98	146.45	151.47
BUILDLEN STCK20	151.88	147.69	0.00	147.03	151.26	150.89
BUILDLEN STCK20	145.94	136.56	123.02	105.75	85.27	63.18
BUILDLEN STCK20	85.37	105.97	123.35	136.98	146.45	151.47
BUILDLEN STCK20	151.88	147.69	0.00	147.03	151.26	150.89
BUILDLEN STCK20	145.94	136.56	123.02	105.75	85.27	63.18
BUILDLEN STCK21	85.37	105.97	123.35	136.98	146.45	151.47
BUILDLEN STCK21	151.88	147.69	0.00	147.03	151.26	150.89
BUILDLEN STCK21	145.94	136.56	123.02	105.75	85.27	63.18
BUILDLEN STCK21	85.37	105.97	123.35	136.98	146.45	151.47
BUILDLEN STCK21	151.88	147.69	0.00	147.03	151.26	150.89
BUILDLEN STCK21	145.94	136.56	123.02	105.75	85.27	63.18
BUILDLEN STCK22	70.27	73.68	74.85	73.75	70.40	64.92
BUILDLEN STCK22	57.46	48.26	39.00	49.75	58.98	66.42
BUILDLEN STCK22	71.84	75.08	76.04	74.69	71.07	0.00
BUILDLEN STCK22	70.27	73.68	74.85	73.75	70.40	64.92
BUILDLEN STCK22	57.46	48.26	39.00	49.75	58.98	66.42
BUILDLEN STCK22	71.84	75.08	76.04	74.69	71.07	0.00
BUILDLEN STCK23	69.93	72.57	73.00	136.98	146.45	151.47
BUILDLEN STCK23	151.88	147.69	139.00	147.03	151.26	150.89
BUILDLEN STCK23	145.94	136.56	73.06	72.48	69.70	0.00
BUILDLEN STCK23	69.93	72.57	73.00	136.98	146.45	151.47
BUILDLEN STCK23	151.88	43.94	34.06	44.63	151.26	150.89
BUILDLEN STCK23	145.94	136.56	73.06	72.48	69.70	0.00
BUILDLEN STCK24	143.68	148.71	149.23	145.21	136.78	124.19
BUILDLEN STCK24	107.83	88.20	69.82	92.18	111.73	127.89

BUILDLEN STCK24	140.17	148.18	151.69	150.60	144.93	0.00
BUILDLEN STCK24	143.68	148.71	149.23	145.21	136.78	124.19
BUILDLEN STCK24	107.83	88.20	69.82	92.18	111.73	127.89
BUILDLEN STCK24	140.17	148.18	151.69	150.60	144.93	0.00
BUILDLEN STCK25	143.68	148.71	149.23	145.21	136.78	124.19
BUILDLEN STCK25	107.83	88.20	69.82	92.18	111.73	127.89
BUILDLEN STCK25	140.17	148.18	151.69	150.60	144.93	0.00
BUILDLEN STCK25	143.68	148.71	149.23	145.21	136.78	124.19
BUILDLEN STCK25	107.83	88.20	69.82	92.18	111.73	127.89
BUILDLEN STCK25	140.17	148.18	151.69	150.60	144.93	0.00
BUILDLEN STCK26	97.88	117.43	133.41	145.34	152.85	155.72
BUILDLEN STCK26	153.86	147.32	0.00	146.57	152.99	154.77
BUILDLEN STCK26	151.84	144.30	132.37	116.43	96.94	75.35
BUILDLEN STCK26	97.88	117.43	133.41	145.34	152.85	155.72
BUILDLEN STCK26	153.86	147.32	0.00	146.57	152.99	154.77
BUILDLEN STCK26	151.84	144.30	132.37	116.43	96.94	75.35
BUILDLEN STCK27	97.88	117.43	133.41	145.34	152.85	155.72
BUILDLEN STCK27	153.86	147.32	0.00	146.57	152.99	154.77
BUILDLEN STCK27	151.84	144.30	132.37	116.43	96.94	75.35
BUILDLEN STCK27	97.88	117.43	133.41	145.34	152.85	155.72
BUILDLEN STCK27	153.86	147.32	0.00	146.57	152.99	154.77
BUILDLEN STCK27	151.84	144.30	132.37	116.43	96.94	75.35
BUILDLEN STCK28	82.18	84.48	84.21	145.34	152.85	155.72
BUILDLEN STCK28	153.86	147.32	136.33	146.57	152.99	154.77
BUILDLEN STCK28	151.84	144.30	84.87	84.77	82.08	0.00
BUILDLEN STCK28	82.18	84.48	84.21	145.34	152.85	155.72
BUILDLEN STCK28	153.86	47.29	36.53	49.33	152.99	154.77
BUILDLEN STCK28	151.84	144.30	84.87	84.77	82.08	0.00
BUILDLEN STCK29	159.31	163.61	162.95	157.33	146.93	132.07
BUILDLEN STCK29	113.20	90.89	36.53	49.33	60.63	70.09
BUILDLEN STCK29	77.42	82.40	84.87	165.56	160.90	0.00
BUILDLEN STCK29	159.31	163.61	162.95	157.33	146.93	132.07
BUILDLEN STCK29	113.20	90.89	68.20	93.45	115.86	134.74
BUILDLEN STCK29	149.54	159.79	165.18	165.56	160.90	0.00
BUILDLEN STCK30	159.31	163.61	162.95	157.33	146.93	132.07
BUILDLEN STCK30	113.20	90.89	68.20	93.45	115.86	134.74
BUILDLEN STCK30	149.54	159.79	165.18	165.56	160.90	0.00
BUILDLEN STCK30	159.31	163.61	162.95	157.33	146.93	132.07
BUILDLEN STCK30	113.20	90.89	68.20	93.45	115.86	134.74
BUILDLEN STCK30	149.54	159.79	165.18	165.56	160.90	0.00
BUILDLEN STCK31	81.92	84.22	131.10	143.53	151.60	155.07
BUILDLEN STCK31	153.82	147.90	137.49	146.75	152.65	153.92
BUILDLEN STCK31	150.50	142.52	85.44	85.45	82.86	0.00
BUILDLEN STCK31	81.92	84.22	131.10	143.53	151.60	155.07

BUILDLEN	STCK31	153.82	47.21	36.22	49.17	152.65	153.92
BUILDLEN	STCK31	150.50	142.52	85.44	85.45	82.86	0.00
BUILDLEN	STCK32	94.78	114.68	131.10	143.53	151.60	155.07
BUILDLEN	STCK32	153.82	147.90	0.00	146.75	152.65	153.92
BUILDLEN	STCK32	150.50	142.52	130.20	113.93	94.20	72.40
BUILDLEN	STCK32	94.78	114.68	131.10	143.53	151.60	155.07
BUILDLEN	STCK32	153.82	147.90	0.00	146.75	152.65	153.92
BUILDLEN	STCK32	150.50	142.52	130.20	113.93	94.20	72.40
BUILDLEN	STCK33	94.78	114.68	131.10	143.53	151.60	155.07
BUILDLEN	STCK33	153.82	147.90	0.00	146.75	152.65	153.92
BUILDLEN	STCK33	150.50	142.52	130.20	113.93	94.20	72.40
BUILDLEN	STCK33	94.78	114.68	131.10	143.53	151.60	155.07
BUILDLEN	STCK33	153.82	147.90	0.00	146.75	152.65	153.92
BUILDLEN	STCK33	150.50	142.52	130.20	113.93	94.20	72.40
BUILDLEN	STCK34	51.10	55.69	58.59	79.51	83.08	84.13
BUILDLEN	STCK34	82.62	78.60	0.00	47.74	53.41	57.45
BUILDLEN	STCK34	59.74	60.22	85.44	85.45	82.86	77.75
BUILDLEN	STCK34	81.92	84.22	83.97	59.71	59.02	56.54
BUILDLEN	STCK34	52.33	46.54	0.00	47.74	53.41	57.45
BUILDLEN	STCK34	59.74	60.22	58.87	55.73	50.90	44.95
XBADJ	STCK1	-3.57	-9.42	-14.97	-20.08	-24.57	-28.32
XBADJ	STCK1	-31.20	-33.14	-34.07	-44.59	-53.75	-61.29
XBADJ	STCK1	-66.95	-70.59	-72.08	-71.38	-68.51	-63.56
XBADJ	STCK1	-79.92	-93.86	-104.94	-112.83	-117.30	-118.20
XBADJ	STCK1	-115.51	-109.31	-100.25	-98.15	-93.08	-85.17
XBADJ	STCK1	-74.67	-61.91	-47.27	-31.19	-14.16	2.38
XBADJ	STCK2	-32.53	-38.21	-42.72	-45.93	-47.75	-48.12
XBADJ	STCK2	-47.03	-44.51	-40.63	-44.49	-48.84	-51.71
XBADJ	STCK2	-53.00	-52.69	-50.77	-47.31	-42.42	-36.23
XBADJ	STCK2	-34.80	-32.77	-29.75	-25.83	-21.12	-15.76
XBADJ	STCK2	-9.93	-3.80	2.45	-1.49	-6.31	-10.94
XBADJ	STCK2	-15.23	-19.06	-22.31	-24.89	-26.70	-27.71
XBADJ	STCK3	-53.67	-56.93	-58.45	10.79	2.72	-5.42
XBADJ	STCK3	-13.40	-40.38	0.00	-30.92	-28.44	-25.10
XBADJ	STCK3	-21.00	-101.01	-107.94	-111.58	-111.84	-109.50
XBADJ	STCK3	-126.86	-140.37	-149.62	-154.32	-154.33	-149.65
XBADJ	STCK3	-140.42	-34.30	0.00	-43.74	-50.27	-55.26
XBADJ	STCK3	-58.58	-41.51	-22.27	-2.35	17.65	-48.79
XBADJ	STCK4	16.77	-4.47	-25.59	-59.39	-57.49	-53.83
XBADJ	STCK4	-48.55	-41.78	0.00	-32.27	-146.03	-154.67
XBADJ	STCK4	-158.61	-157.73	-152.06	-141.77	-127.17	-109.51
XBADJ	STCK4	-111.55	-110.21	-105.51	-20.12	-25.60	-30.30
XBADJ	STCK4	-34.07	-36.82	0.00	-46.48	-6.63	0.75
XBADJ	STCK4	8.10	15.21	-62.22	-59.80	-55.57	-49.65

XBADJ	STCK5	-13.38	-29.22	-44.17	-57.78	-69.63	-79.37
XBADJ	STCK5	-86.70	-91.39	-93.31	-103.01	-109.59	-112.83
XBADJ	STCK5	-112.65	-109.04	-102.12	-92.10	-79.28	-64.05
XBADJ	STCK5	-70.12	-74.06	-75.74	-75.13	-72.23	-67.14
XBADJ	STCK5	-60.01	-51.06	-41.01	-39.73	-37.24	-33.62
XBADJ	STCK5	-28.98	-23.46	-17.22	-10.46	-3.39	2.87
XBADJ	STCK6	-3.00	-9.61	-15.93	-21.77	-26.95	-31.31
XBADJ	STCK6	-34.71	-37.06	-38.83	-49.60	-58.86	-66.33
XBADJ	STCK6	-71.79	-75.07	-76.06	-74.75	-71.16	-67.03
XBADJ	STCK6	-82.67	-95.79	-106.01	-113.00	-116.57	-116.58
XBADJ	STCK6	-113.06	-106.10	-97.54	-95.51	-90.57	-82.89
XBADJ	STCK6	-72.68	-60.27	-46.02	-30.38	-13.82	3.17
XBADJ	STCK7	-13.24	-30.06	-45.96	-60.47	-73.13	-83.58
XBADJ	STCK7	-91.49	-96.62	-99.35	-109.25	-115.82	-118.88
XBADJ	STCK7	-118.32	-114.17	-106.56	-95.70	-81.93	-67.30
XBADJ	STCK7	-72.42	-75.35	-75.98	-74.31	-70.38	-64.31
XBADJ	STCK7	-56.28	-46.55	-37.02	-35.86	-33.61	-30.34
XBADJ	STCK7	-26.15	-21.16	-15.53	-9.43	-3.04	3.44
XBADJ	STCK8	-36.72	-41.69	-45.39	-47.71	-48.58	-47.98
XBADJ	STCK8	-45.92	-42.46	-37.71	-42.74	-46.47	-48.79
XBADJ	STCK8	-49.63	-48.96	-46.80	-43.22	-38.33	-32.27
XBADJ	STCK8	-31.24	-29.25	-26.38	-22.71	-18.35	-13.42
XBADJ	STCK8	-8.10	-2.52	3.13	-2.20	-7.46	-12.49
XBADJ	STCK8	-17.14	-21.28	-24.76	-27.50	-29.39	-30.64
XBADJ	STCK9	-1.18	-7.26	-13.12	-18.58	-23.47	-27.66
XBADJ	STCK9	-31.00	-33.40	0.00	-46.34	-56.16	-64.28
XBADJ	STCK9	-70.44	-74.47	-76.23	-75.67	-72.82	-68.08
XBADJ	STCK9	-84.56	-98.46	-109.38	-116.97	-121.01	-121.37
XBADJ	STCK9	-118.04	-111.13	0.00	-99.04	-93.58	-85.27
XBADJ	STCK9	-74.37	-61.21	-46.19	-29.77	-12.45	4.59
XBADJ	STCK10	-12.64	-28.32	-43.14	-56.65	-68.43	-78.14
XBADJ	STCK10	-85.47	-90.21	-92.53	-102.63	-109.61	-113.25
XBADJ	STCK10	-113.46	-110.22	-103.63	-93.89	-81.30	-66.57
XBADJ	STCK10	-73.10	-77.41	-79.36	-78.91	-76.05	-70.89
XBADJ	STCK10	-63.57	-54.32	-44.08	-42.76	-40.14	-36.30
XBADJ	STCK10	-31.36	-25.46	-18.79	-11.55	-3.96	3.08
XBADJ	STCK11	-0.52	-6.88	-13.04	-18.80	-23.99	-28.45
XBADJ	STCK11	-32.04	-34.66	0.00	-45.97	-55.98	-64.28
XBADJ	STCK11	-70.64	-74.84	-76.77	-76.37	-73.65	-68.69
XBADJ	STCK11	-85.55	-100.15	-111.71	-119.88	-124.40	-125.14
XBADJ	STCK11	-122.08	-115.31	0.00	-101.87	-95.94	-87.09
XBADJ	STCK11	-75.59	-61.80	-46.13	-29.06	-11.10	5.53
XBADJ	STCK12	-12.81	-30.05	-46.37	-61.28	-74.33	-85.12

XBADJ	STCK12	-93.33	-98.70	-101.07	-109.65	-116.55	-119.91
XBADJ	STCK12	-119.63	-115.71	-108.28	-97.56	-83.87	-67.64
XBADJ	STCK12	-73.26	-76.99	-78.38	-77.39	-74.05	-68.46
XBADJ	STCK12	-60.79	-51.28	-40.20	-38.20	-35.37	-31.46
XBADJ	STCK12	-26.60	-20.92	-14.62	-7.87	-0.88	4.48
XBADJ	STCK13	-92.74	-86.96	-78.54	-67.73	-54.87	-40.33
XBADJ	STCK13	-24.57	-8.07	8.68	4.43	-0.18	-4.79
XBADJ	STCK13	-9.25	-13.42	-17.19	-20.44	-23.06	0.00
XBADJ	STCK13	-38.49	-49.89	-59.78	-67.86	-73.87	-77.64
XBADJ	STCK13	-79.05	-78.05	-75.15	-90.68	-103.46	-113.09
XBADJ	STCK13	-119.29	-121.86	-120.73	-115.93	-107.61	0.00
XBADJ	STCK14	-29.31	-26.73	-23.35	-19.25	-14.57	-9.45
XBADJ	STCK14	-4.04	1.49	6.98	-8.49	-23.91	-38.61
XBADJ	STCK14	-52.14	-64.09	-74.08	-81.83	-87.09	0.00
XBADJ	STCK14	-101.92	-110.12	-114.97	-116.34	-114.16	-108.52
XBADJ	STCK14	-99.58	-87.62	-73.45	-77.77	-79.73	-79.26
XBADJ	STCK14	-76.39	-71.20	-63.84	-54.54	-43.59	0.00
XBADJ	STCK15	-0.36	-6.65	-12.73	-18.42	-23.56	-27.98
XBADJ	STCK15	-31.55	-34.16	0.00	-45.47	-55.16	-63.18
XBADJ	STCK15	-69.27	-73.26	-75.02	-74.51	-71.73	-66.77
XBADJ	STCK15	-83.34	-97.37	-108.44	-116.22	-120.47	-121.06
XBADJ	STCK15	-117.97	-111.30	0.00	-98.79	-93.33	-85.04
XBADJ	STCK15	-74.17	-61.04	-46.06	-29.67	-12.39	5.27
XBADJ	STCK16	-9.63	-26.60	-42.76	-57.62	-70.73	-81.69
XBADJ	STCK16	-90.17	-95.91	0.00	-107.81	-114.94	-118.59
XBADJ	STCK16	-118.62	-115.06	-108.00	-97.65	-84.34	-68.47
XBADJ	STCK16	-74.07	-77.42	-78.42	-77.03	-73.31	-67.35
XBADJ	STCK16	-59.35	-49.55	0.00	-36.45	-33.55	-29.63
XBADJ	STCK16	-24.81	-19.24	-13.08	-6.53	0.22	6.97
XBADJ	STCK18	1.06	-5.36	-11.61	-17.51	-22.88	-27.55
XBADJ	STCK18	-31.39	-34.27	0.00	-48.58	-58.84	-67.33
XBADJ	STCK18	-73.76	-77.96	-79.78	-79.18	-76.18	-70.86
XBADJ	STCK18	-86.43	-100.02	-110.58	-117.77	-121.39	-121.32
XBADJ	STCK18	-117.56	-110.23	0.00	-96.82	-91.14	-82.70
XBADJ	STCK18	-71.74	-58.60	-43.69	-27.44	-10.36	7.03
XBADJ	STCK19	-11.85	-29.09	-45.44	-60.41	-73.54	-84.44
XBADJ	STCK19	-92.78	-98.29	0.00	-112.01	-119.07	-122.52
XBADJ	STCK19	-122.24	-118.25	-110.66	-99.72	-85.74	-69.16
XBADJ	STCK19	-73.52	-76.29	-76.75	-74.88	-70.73	-64.43
XBADJ	STCK19	-56.17	-46.21	0.00	-33.39	-30.92	-27.51
XBADJ	STCK19	-23.26	-18.31	-12.80	-6.91	-0.80	5.33
XBADJ	STCK20	-73.62	-76.33	-76.72	-74.78	-70.56	-64.20
XBADJ	STCK20	-55.89	-45.88	0.00	-33.00	-30.52	-27.11
XBADJ	STCK20	-22.88	-17.95	-12.48	-6.62	-0.57	5.50

XBADJ	STCK20	-11.75	-29.64	-46.63	-62.20	-75.89	-87.27
XBADJ	STCK20	-95.99	-101.80	0.00	-114.03	-120.74	-123.78
XBADJ	STCK20	-123.06	-118.61	-110.55	-99.13	-84.69	-68.68
XBADJ	STCK21	-87.03	-101.88	-113.64	-121.94	-126.54	-127.30
XBADJ	STCK21	-124.19	-117.30	0.00	-104.12	-98.23	-89.36
XBADJ	STCK21	-77.77	-63.82	-47.93	-30.58	-12.30	6.35
XBADJ	STCK21	1.66	-4.09	-9.71	-15.04	-19.90	-24.17
XBADJ	STCK21	-27.70	-30.39	0.00	-42.90	-53.02	-61.53
XBADJ	STCK21	-68.17	-72.74	-75.10	-75.17	-72.97	-69.53
XBADJ	STCK22	-44.68	-50.32	-54.42	-56.87	-57.60	-56.57
XBADJ	STCK22	-53.82	-49.44	-44.69	-48.85	-51.53	-52.64
XBADJ	STCK22	-52.16	-50.08	-46.49	-41.48	-35.22	0.00
XBADJ	STCK22	-25.59	-23.37	-20.43	-16.88	-12.81	-8.35
XBADJ	STCK22	-3.64	1.18	5.69	-0.89	-7.45	-13.78
XBADJ	STCK22	-19.69	-25.00	-29.55	-33.21	-35.85	0.00
XBADJ	STCK23	-32.13	-29.50	-25.97	-131.22	-147.25	-158.82
XBADJ	STCK23	-165.56	-167.26	-163.89	-166.51	-164.07	-156.64
XBADJ	STCK23	-144.45	-127.88	-23.62	-26.99	-29.53	0.00
XBADJ	STCK23	-37.80	-43.07	-47.04	-5.76	0.81	7.35
XBADJ	STCK23	13.67	-44.57	-40.65	-45.87	12.81	5.75
XBADJ	STCK23	-1.49	-8.68	-49.44	-45.50	-40.17	0.00
XBADJ	STCK24	-99.77	-93.61	-84.59	-73.01	-59.21	-43.61
XBADJ	STCK24	-26.68	-8.95	5.97	0.28	-5.41	-10.94
XBADJ	STCK24	-16.14	-20.84	-24.92	-28.24	-30.69	0.00
XBADJ	STCK24	-43.91	-55.11	-64.64	-72.20	-77.57	-80.58
XBADJ	STCK24	-81.15	-79.25	-75.79	-92.46	-106.32	-116.95
XBADJ	STCK24	-124.03	-127.34	-126.78	-122.36	-114.23	0.00
XBADJ	STCK25	-28.36	-25.31	-21.49	-17.02	-12.04	-6.69
XBADJ	STCK25	-1.13	4.46	6.82	-11.45	-29.36	-46.39
XBADJ	STCK25	-62.00	-75.74	-87.17	-95.95	-101.82	0.00
XBADJ	STCK25	-115.32	-123.41	-127.74	-128.19	-124.74	-117.51
XBADJ	STCK25	-106.70	-92.65	-76.64	-80.73	-82.37	-81.50
XBADJ	STCK25	-78.16	-72.44	-64.53	-54.65	-43.11	0.00
XBADJ	STCK26	-1.72	-8.68	-15.37	-21.59	-27.16	-31.91
XBADJ	STCK26	-35.68	-38.38	0.00	-52.52	-64.19	-73.91
XBADJ	STCK26	-81.38	-86.37	-88.75	-88.42	-85.41	-80.64
XBADJ	STCK26	-96.16	-108.75	-118.04	-123.75	-125.69	-123.81
XBADJ	STCK26	-118.18	-108.95	0.00	-94.04	-88.80	-80.86
XBADJ	STCK26	-70.46	-57.92	-43.62	-28.00	-11.53	5.29
XBADJ	STCK27	-10.30	-26.58	-42.05	-56.25	-68.73	-79.13
XBADJ	STCK27	-87.12	-92.46	0.00	-106.96	-116.31	-122.12
XBADJ	STCK27	-124.23	-122.56	-117.16	-108.21	-95.97	-81.64
XBADJ	STCK27	-87.57	-90.85	-91.36	-89.09	-84.12	-76.60
XBADJ	STCK27	-66.74	-54.86	0.00	-39.61	-36.68	-32.64

XBADJ	STCK27	-27.61	-21.74	-15.21	-8.22	-0.97	6.29
XBADJ	STCK28	-36.75	-34.03	-30.27	-133.31	-149.74	-161.63
XBADJ	STCK28	-168.60	-170.46	-167.13	-171.04	-170.38	-164.55
XBADJ	STCK28	-153.73	-138.23	-31.33	-34.98	-37.58	0.00
XBADJ	STCK28	-45.43	-50.45	-53.94	-12.03	-3.11	5.91
XBADJ	STCK28	14.74	-46.45	-41.48	-47.43	17.39	9.79
XBADJ	STCK28	1.89	-6.07	-53.55	-49.78	-44.51	0.00
XBADJ	STCK29	-108.66	-101.50	-91.26	-78.25	-62.86	-45.56
XBADJ	STCK29	-26.88	-7.37	-80.19	-92.71	-102.41	-109.00
XBADJ	STCK29	-112.27	-112.14	-108.60	-32.69	-36.32	0.00
XBADJ	STCK29	-50.65	-62.11	-71.69	-79.08	-84.07	-86.51
XBADJ	STCK29	-86.32	-83.51	-79.36	-97.69	-113.05	-124.98
XBADJ	STCK29	-133.11	-137.20	-137.12	-132.87	-124.58	0.00
XBADJ	STCK30	-44.03	-39.87	-34.50	-28.08	-20.81	-12.90
XBADJ	STCK30	-4.61	3.83	10.96	-7.35	-25.45	-42.76
XBADJ	STCK30	-58.78	-73.01	-85.03	-94.46	-101.02	0.00
XBADJ	STCK30	-115.28	-123.74	-128.45	-129.25	-126.13	-119.17
XBADJ	STCK30	-108.59	-94.72	-79.16	-86.09	-90.41	-91.98
XBADJ	STCK30	-90.75	-86.77	-80.15	-71.10	-59.88	0.00
XBADJ	STCK31	-43.69	-40.41	-120.86	-139.99	-154.86	-165.03
XBADJ	STCK31	-170.19	-170.17	-164.98	-166.84	-163.94	-156.05
XBADJ	STCK31	-143.43	-126.45	-24.24	-27.62	-30.17	0.00
XBADJ	STCK31	-38.23	-43.81	-10.24	-3.54	3.26	9.96
XBADJ	STCK31	16.36	-46.41	-42.82	-50.15	11.28	2.14
XBADJ	STCK31	-7.08	-16.07	-61.20	-57.82	-52.69	0.00
XBADJ	STCK32	-86.24	-89.24	-89.54	-87.12	-82.04	-74.48
XBADJ	STCK32	-64.65	-52.86	0.00	-36.92	-33.57	-29.20
XBADJ	STCK32	-23.94	-17.96	-11.43	-4.55	2.47	8.61
XBADJ	STCK32	-8.54	-25.44	-41.56	-56.42	-69.56	-80.59
XBADJ	STCK32	-89.17	-95.05	0.00	-109.83	-119.08	-124.72
XBADJ	STCK32	-126.56	-124.56	-118.78	-109.38	-96.66	-81.01
XBADJ	STCK33	-97.70	-112.44	-123.77	-131.33	-134.91	-134.38
XBADJ	STCK33	-129.78	-121.22	0.00	-105.50	-99.12	-89.72
XBADJ	STCK33	-77.60	-63.12	-46.73	-28.91	-10.22	7.99
XBADJ	STCK33	2.92	-2.24	-7.33	-12.20	-16.70	-20.69
XBADJ	STCK33	-24.05	-26.68	0.00	-41.25	-53.53	-64.19
XBADJ	STCK33	-72.90	-79.39	-83.47	-85.02	-83.98	-80.39
XBADJ	STCK34	-54.03	-54.70	-53.71	-108.72	-115.95	-119.65
XBADJ	STCK34	-119.72	-116.15	0.00	-16.39	-14.45	-12.06
XBADJ	STCK34	-9.31	-6.28	-107.28	-112.42	-114.15	-112.41
XBADJ	STCK34	-113.02	-110.51	-104.64	-8.63	-12.11	-15.23
XBADJ	STCK34	-17.88	-19.99	0.00	-31.35	-38.96	-45.38
XBADJ	STCK34	-50.43	-53.94	-55.81	-55.99	-54.47	-51.72

YBADJ	STCK1	-26.78	-19.66	-11.94	-3.86	4.34	12.41
YBADJ	STCK1	20.10	27.18	32.97	38.18	42.22	44.98
YBADJ	STCK1	46.38	46.36	44.94	42.15	38.09	33.09
YBADJ	STCK1	26.78	19.66	11.94	3.86	-4.34	-12.41
YBADJ	STCK1	-20.10	-27.18	-32.97	-38.18	-42.22	-44.98
YBADJ	STCK1	-46.38	-46.36	-44.94	-42.15	-38.09	-33.09
YBADJ	STCK2	21.50	21.27	20.39	18.89	16.81	14.23
YBADJ	STCK2	11.21	7.86	4.26	1.13	-2.72	-6.48
YBADJ	STCK2	-10.05	-13.32	-16.18	-18.55	-20.35	-21.54
YBADJ	STCK2	-21.50	-21.27	-20.39	-18.89	-16.81	-14.23
YBADJ	STCK2	-11.21	-7.86	-4.26	-1.13	2.72	6.48
YBADJ	STCK2	10.05	13.32	16.18	18.55	20.35	21.54
YBADJ	STCK3	-6.41	-10.91	-15.08	15.76	29.75	42.84
YBADJ	STCK3	54.62	-27.07	0.00	-26.68	-25.15	-22.85
YBADJ	STCK3	-19.86	78.53	72.11	63.51	52.98	40.83
YBADJ	STCK3	27.32	13.21	-1.29	-15.76	-29.75	-42.84
YBADJ	STCK3	-54.62	27.07	0.00	26.68	25.15	22.85
YBADJ	STCK3	19.86	-78.53	-72.11	-63.51	-52.98	-1.72
YBADJ	STCK4	59.57	69.70	77.71	-19.54	-22.65	-25.08
YBADJ	STCK4	-26.74	-27.59	0.00	-26.77	52.87	39.96
YBADJ	STCK4	25.85	10.94	-4.29	-19.39	-33.91	-47.40
YBADJ	STCK4	-59.57	-69.70	-77.71	19.54	22.65	25.08
YBADJ	STCK4	26.74	27.59	0.00	26.77	-52.87	-39.96
YBADJ	STCK4	-25.85	-10.94	11.77	7.24	2.48	-2.35
YBADJ	STCK5	31.64	36.17	39.61	41.84	42.79	42.45
YBADJ	STCK5	40.82	37.95	33.46	28.37	22.42	15.79
YBADJ	STCK5	8.68	1.30	-6.12	-13.35	-20.17	-26.15
YBADJ	STCK5	-31.64	-36.17	-39.61	-41.84	-42.79	-42.45
YBADJ	STCK5	-40.82	-37.95	-33.46	-28.37	-22.42	-15.79
YBADJ	STCK5	-8.68	-1.30	6.12	13.35	20.17	26.15
YBADJ	STCK6	-22.95	-15.86	-8.28	-0.45	7.40	15.02
YBADJ	STCK6	22.18	28.67	35.10	39.84	43.09	45.04
YBADJ	STCK6	45.62	44.81	42.64	39.17	34.52	29.35
YBADJ	STCK6	22.95	15.86	8.28	0.45	-7.40	-15.02
YBADJ	STCK6	-22.18	-28.67	-35.10	-39.84	-43.09	-45.04
YBADJ	STCK6	-45.62	-44.81	-42.64	-39.17	-34.52	-29.35
YBADJ	STCK7	36.69	41.11	44.27	46.09	46.51	45.51
YBADJ	STCK7	43.13	39.45	35.37	29.59	22.65	15.01
YBADJ	STCK7	6.92	-1.38	-9.64	-17.60	-25.03	-31.16
YBADJ	STCK7	-36.69	-41.11	-44.27	-46.09	-46.51	-45.51
YBADJ	STCK7	-43.13	-39.45	-35.37	-29.59	-22.65	-15.01
YBADJ	STCK7	-6.92	1.38	9.64	17.60	25.03	31.16
YBADJ	STCK8	20.27	19.51	18.15	16.24	13.84	11.02
YBADJ	STCK8	7.86	4.47	0.82	-2.74	-6.22	-9.50

YBADJ	STCK8	-12.50	-15.12	-17.28	-18.91	-19.97	-20.42
YBADJ	STCK8	-20.27	-19.51	-18.15	-16.24	-13.84	-11.02
YBADJ	STCK8	-7.86	-4.47	-0.81	2.74	6.22	9.50
YBADJ	STCK8	12.50	15.12	17.28	18.91	19.97	20.42
YBADJ	STCK9	-26.35	-18.71	-10.50	-1.96	6.63	15.02
YBADJ	STCK9	22.95	30.19	0.00	41.69	45.60	48.13
YBADJ	STCK9	49.20	48.77	46.86	43.52	38.87	33.19
YBADJ	STCK9	26.35	18.71	10.50	1.96	-6.63	-15.02
YBADJ	STCK9	-22.95	-30.19	0.00	-41.69	-45.60	-48.13
YBADJ	STCK9	-49.20	-48.77	-46.86	-43.52	-38.87	-33.19
YBADJ	STCK10	29.93	34.73	38.48	41.05	42.38	42.42
YBADJ	STCK10	41.17	38.67	34.82	30.23	24.54	18.11
YBADJ	STCK10	11.13	3.81	-3.62	-10.95	-17.94	-24.23
YBADJ	STCK10	-29.93	-34.73	-38.48	-41.05	-42.38	-42.42
YBADJ	STCK10	-41.17	-38.67	-34.83	-30.23	-24.54	-18.11
YBADJ	STCK10	-11.13	-3.81	3.62	10.95	17.94	24.23
YBADJ	STCK11	-27.95	-19.98	-11.40	-2.48	6.52	15.32
YBADJ	STCK11	23.66	31.27	0.00	42.52	46.63	49.34
YBADJ	STCK11	50.54	50.21	48.35	45.02	40.33	34.40
YBADJ	STCK11	27.95	19.98	11.40	2.48	-6.52	-15.32
YBADJ	STCK11	-23.66	-31.27	0.00	-42.52	-46.63	-49.34
YBADJ	STCK11	-50.54	-50.21	-48.35	-45.02	-40.33	-34.40
YBADJ	STCK12	35.72	40.59	44.23	46.52	47.40	46.83
YBADJ	STCK12	44.85	41.50	36.06	30.22	23.47	16.01
YBADJ	STCK12	8.06	-0.14	-8.33	-16.27	-23.71	-30.44
YBADJ	STCK12	-35.72	-40.59	-44.23	-46.52	-47.40	-46.83
YBADJ	STCK12	-44.85	-41.50	-36.06	-30.22	-23.47	-16.01
YBADJ	STCK12	-8.06	0.14	8.33	16.27	23.71	30.44
YBADJ	STCK13	-47.55	-51.64	-54.15	-55.02	-54.22	-51.77
YBADJ	STCK13	-47.75	-42.27	-35.05	-27.13	-18.53	-9.38
YBADJ	STCK13	0.06	9.50	18.65	27.24	34.99	0.00
YBADJ	STCK13	47.55	51.64	54.15	55.02	54.22	51.77
YBADJ	STCK13	47.75	42.27	35.05	27.13	18.53	9.38
YBADJ	STCK13	-0.06	-9.50	-18.65	-27.24	-34.99	0.00
YBADJ	STCK14	-34.64	-27.91	-20.32	-12.12	-3.56	5.12
YBADJ	STCK14	13.64	21.75	29.66	36.31	41.69	45.81
YBADJ	STCK14	48.54	49.79	49.54	47.77	44.55	0.00
YBADJ	STCK14	34.64	27.91	20.32	12.12	3.56	-5.12
YBADJ	STCK14	-13.64	-21.75	-29.66	-36.31	-41.69	-45.81
YBADJ	STCK14	-48.54	-49.79	-49.54	-47.77	-44.55	0.00
YBADJ	STCK15	-26.66	-19.08	-10.93	-2.45	6.11	14.48
YBADJ	STCK15	22.42	29.67	0.00	41.49	45.36	47.86
YBADJ	STCK15	48.90	48.46	46.54	43.21	38.57	32.76
YBADJ	STCK15	26.66	19.08	10.93	2.45	-6.11	-14.48

YBADJ	STCK15	-22.42	-29.67	0.00	-41.49	-45.36	-47.86
YBADJ	STCK15	-48.90	-48.46	-46.54	-43.21	-38.57	-32.75
YBADJ	STCK16	35.68	40.70	44.48	46.91	47.91	47.46
YBADJ	STCK16	45.56	42.28	0.00	32.22	25.41	17.83
YBADJ	STCK16	9.71	1.29	-7.17	-15.41	-23.18	-30.24
YBADJ	STCK16	-35.68	-40.70	-44.48	-46.91	-47.91	-47.46
YBADJ	STCK16	-45.56	-42.28	0.00	-32.22	-25.41	-17.83
YBADJ	STCK16	-9.71	-1.29	7.17	15.41	23.18	30.25
YBADJ	STCK18	-24.12	-16.15	-7.69	1.01	9.68	18.05
YBADJ	STCK18	25.87	32.91	0.00	43.74	47.33	49.48
YBADJ	STCK18	50.13	49.26	46.88	43.09	37.98	31.36
YBADJ	STCK18	24.12	16.15	7.69	-1.01	-9.68	-18.05
YBADJ	STCK18	-25.87	-32.91	0.00	-43.74	-47.33	-49.48
YBADJ	STCK18	-50.13	-49.26	-46.88	-43.09	-37.98	-31.36
YBADJ	STCK19	39.31	44.08	47.50	49.49	49.97	48.93
YBADJ	STCK19	46.41	42.47	0.00	30.83	23.60	15.66
YBADJ	STCK19	7.23	-1.41	-10.01	-18.30	-26.04	-33.35
YBADJ	STCK19	-39.31	-44.08	-47.50	-49.49	-49.97	-48.93
YBADJ	STCK19	-46.41	-42.47	0.00	-30.83	-23.60	-15.66
YBADJ	STCK19	-7.23	1.41	10.01	18.30	26.04	33.35
YBADJ	STCK20	-40.51	-45.11	-48.34	-50.09	-50.33	-49.03
YBADJ	STCK20	-46.25	-42.06	0.00	-30.94	-23.35	-15.04
YBADJ	STCK20	-6.29	2.66	11.53	20.05	27.96	35.02
YBADJ	STCK20	40.51	45.11	48.34	50.09	50.33	49.03
YBADJ	STCK20	46.25	42.06	0.00	30.94	23.35	15.04
YBADJ	STCK20	6.29	-2.66	-11.53	-20.05	-27.96	-35.02
YBADJ	STCK21	30.61	22.61	13.91	4.80	-4.46	-13.59
YBADJ	STCK21	-22.30	-30.33	0.00	-44.34	-48.90	-51.97
YBADJ	STCK21	-53.45	-53.32	-51.57	-48.24	-43.46	-37.35
YBADJ	STCK21	-30.61	-22.61	-13.91	-4.80	4.46	13.59
YBADJ	STCK21	22.30	30.33	0.00	44.34	48.90	51.97
YBADJ	STCK21	53.45	53.32	51.57	48.24	43.46	37.35
YBADJ	STCK22	23.98	22.04	19.43	16.23	12.54	8.47
YBADJ	STCK22	4.14	-0.32	-4.90	-9.54	-13.47	-16.99
YBADJ	STCK22	-20.00	-22.39	-24.11	-25.09	-25.31	0.00
YBADJ	STCK22	-23.98	-22.04	-19.43	-16.23	-12.54	-8.47
YBADJ	STCK22	-4.14	0.32	4.91	9.54	13.47	16.99
YBADJ	STCK22	20.00	22.39	24.11	25.09	25.31	0.00
YBADJ	STCK23	-23.56	-22.69	-21.14	71.48	59.60	45.90
YBADJ	STCK23	30.81	14.79	-2.18	-19.03	-34.80	-49.52
YBADJ	STCK23	-62.73	-74.03	19.45	21.35	22.59	0.00
YBADJ	STCK23	23.56	22.69	21.14	-71.48	-59.60	-45.90
YBADJ	STCK23	-30.81	5.32	1.20	-2.83	34.80	49.52
YBADJ	STCK23	62.73	74.03	-19.45	-21.35	-22.59	0.00

YBADJ	STCK24	-46.37	-50.46	-53.01	-53.95	-53.25	-50.93
YBADJ	STCK24	-47.06	-41.77	-35.35	-27.93	-19.25	-9.98
YBADJ	STCK24	-0.40	9.18	18.49	27.23	35.15	0.00
YBADJ	STCK24	46.37	50.46	53.01	53.95	53.25	50.93
YBADJ	STCK24	47.06	41.77	35.35	27.93	19.25	9.98
YBADJ	STCK24	0.40	-9.18	-18.49	-27.23	-35.15	0.00
YBADJ	STCK25	-34.64	-26.50	-17.56	-8.08	1.65	11.32
YBADJ	STCK25	20.65	29.35	37.03	43.48	49.05	53.12
YBADJ	STCK25	55.58	56.35	55.41	52.78	48.55	0.00
YBADJ	STCK25	34.64	26.50	17.56	8.08	-1.65	-11.32
YBADJ	STCK25	-20.65	-29.35	-37.03	-43.48	-49.05	-53.12
YBADJ	STCK25	-55.58	-56.35	-55.41	-52.78	-48.55	0.00
YBADJ	STCK26	-20.76	-12.31	-3.48	5.46	14.22	22.56
YBADJ	STCK26	30.21	36.94	0.00	47.22	50.04	51.34
YBADJ	STCK26	51.08	49.26	45.95	41.25	35.29	28.26
YBADJ	STCK26	20.76	12.31	3.48	-5.46	-14.23	-22.56
YBADJ	STCK26	-30.21	-36.94	0.00	-47.22	-50.04	-51.34
YBADJ	STCK26	-51.08	-49.26	-45.95	-41.25	-35.29	-28.27
YBADJ	STCK27	33.68	39.81	44.74	48.31	50.41	50.98
YBADJ	STCK27	50.00	47.50	0.00	38.64	32.13	24.65
YBADJ	STCK27	16.42	7.70	-1.27	-10.19	-18.80	-26.84
YBADJ	STCK27	-33.68	-39.81	-44.74	-48.31	-50.41	-50.98
YBADJ	STCK27	-50.00	-47.50	0.00	-38.64	-32.13	-24.65
YBADJ	STCK27	-16.42	-7.70	1.27	10.19	18.80	26.83
YBADJ	STCK28	-22.76	-21.62	-19.82	77.81	66.08	52.34
YBADJ	STCK28	37.01	20.56	3.89	-13.35	-30.19	-46.11
YBADJ	STCK28	-60.64	-73.32	20.17	21.82	22.80	0.00
YBADJ	STCK28	22.76	21.62	19.82	-77.81	-66.08	-52.34
YBADJ	STCK28	-37.01	3.47	-0.34	-4.34	30.19	46.11
YBADJ	STCK28	60.64	73.32	-20.17	-21.82	-22.80	0.00
YBADJ	STCK29	-50.97	-55.13	-57.61	-58.35	-57.31	-54.53
YBADJ	STCK29	-50.09	-44.13	40.41	29.02	16.75	3.97
YBADJ	STCK29	-8.93	-21.56	-33.53	29.72	38.07	0.00
YBADJ	STCK29	50.97	55.13	57.61	58.34	57.31	54.53
YBADJ	STCK29	50.09	44.13	36.83	29.00	19.69	9.79
YBADJ	STCK29	-0.42	-10.61	-20.48	-29.72	-38.07	0.00
YBADJ	STCK30	-39.37	-32.48	-24.61	-15.99	-6.88	2.44
YBADJ	STCK30	11.68	20.57	28.83	35.62	41.94	46.98
YBADJ	STCK30	50.59	52.66	53.13	51.99	49.27	0.00
YBADJ	STCK30	39.37	32.48	24.61	15.99	6.88	-2.44
YBADJ	STCK30	-11.68	-20.57	-28.83	-35.62	-41.94	-46.98
YBADJ	STCK30	-50.59	-52.66	-53.13	-51.99	-49.27	0.00
YBADJ	STCK31	-25.56	-25.64	79.09	68.18	55.19	40.52

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   YBADJ    STCK31          24.62     7.98    -8.51   -24.89   -40.72   -55.31
   YBADJ    STCK31         -68.22   -79.06    17.59    20.51    22.80     0.00
   YBADJ    STCK31          25.56    25.64   -79.09   -68.18   -55.19   -40.52
   YBADJ    STCK31         -24.62    11.26     7.08     2.73    40.72    55.31
   YBADJ    STCK31          68.22    79.06   -17.59   -20.51   -22.80     0.00

   YBADJ    STCK32         -36.45   -42.76   -47.76   -51.31   -53.30   -53.68
   YBADJ    STCK32         -52.42   -49.57     0.00   -38.85   -31.90   -23.99
   YBADJ    STCK32         -15.35    -6.24     3.06    12.26    21.09    29.29
   YBADJ    STCK32          36.45    42.76    47.76    51.31    53.30    53.68
   YBADJ    STCK32          52.42    49.57     0.00    38.85    31.90    23.99
   YBADJ    STCK32          15.35     6.24    -3.06   -12.26   -21.09   -29.29

   YBADJ    STCK33          32.13    22.79    12.77     2.35    -8.13   -18.37
   YBADJ    STCK33         -28.05   -36.88     0.00   -50.31   -55.10   -58.22
   YBADJ    STCK33         -59.57   -59.11   -56.85   -52.86   -47.27   -40.24
   YBADJ    STCK33         -32.13   -22.79   -12.77    -2.35     8.13    18.37
   YBADJ    STCK33          28.05    36.88     0.00    50.31    55.10    58.22
   YBADJ    STCK33          59.57    59.11    56.85    52.86    47.27    40.24

   YBADJ    STCK34          -7.48   -12.25   -16.66    37.36    24.82    11.52
   YBADJ    STCK34          -2.13   -15.71     0.00   -28.48   -26.86   -24.41
   YBADJ    STCK34         -21.23   -17.40    34.98    23.21    10.74    -1.75
   YBADJ    STCK34         -14.49   -26.79   -38.28    20.56    23.83    26.38
   YBADJ    STCK34          28.13    29.02     0.00    28.48    26.86    24.41
   YBADJ    STCK34          21.23    17.40    13.04     8.29     3.28    -2.48

   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "6627b DHS 109 - 2 yr.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\DesertHotSpringsAirportADJU\KTRM_V9_ADJU\KTRM_v9.SFC
   PROFFILE "..\..\..\..\..\Dropbox\Kunzman\Projects\6627 DHS 109\HRA\KTRM_V9_ADJU\KTRM_v9.PFL"
   SURFDATA 3104 2012
   UAIRDATA 3190 2012
   PROFBASE -36.0 METERS
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ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD ALL "6627B DHS 109 - 2 YR.AD\PE00GALL.PLT" 31
   SUMMFILE "6627b DHS 109 - 2 yr.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of           36 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


    ********   WARNING MESSAGES   ********
 SO W320    4337        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    4338        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    4339        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    4340        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5953        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5954        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5955        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5956        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5957        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5958        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5959        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5960        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5961        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5962        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5963        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5964        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5965        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5966        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5967        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5968        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5969        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5970        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5971        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
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SO W320    5972        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5973        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5974        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5975        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5976        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5977        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5978        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5979        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5980        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5981        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
ME W340    9231       PRBASE: Possible Error in PROFBASE Input:  Value is < 0       PROFBASE
ME W186    9232       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187    9232       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

***********************************
*** SETUP Finishes Successfully ***
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*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 2yr                          ***        05/22/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 2 yr                               ***        10:45:00
                                                                                                                PAGE   1
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                        ***     MODEL SETUP OPTIONS SUMMARY       ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

**Model Is Setup For Calculation of Average CONCentration Values.

  --  DEPOSITION LOGIC  --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
**Model Uses NO WET DEPLETION.  WETDPLT  =  F

**Model Uses URBAN Dispersion Algorithm for the SBL for  3880 Source(s),
  for Total of    1 Urban Area(s):
  Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
       1. Stack-tip Downwash.
       2. Model Accounts for ELEVated Terrain Effects.
       3. Use Calms Processing Routine.
       4. Use Missing Data Processing Routine.
       5. No Exponential Decay.
       6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:
       ADJ_U*   - Use ADJ_U* option for SBL in AERMET
       CCVR_Sub - Meteorological data includes CCVR substitutions
       TEMP_Sub - Meteorological data includes TEMP substitutions
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**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of:  DPM

**Model Calculates PERIOD Averages Only

**This Run Includes:   3880 Source(s);       1 Source Group(s); and     454 Receptor(s)

               with:     33 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:   3847 VOLUME source(s)
                and:      0 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with      0 line(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
         Model Outputs Tables of PERIOD Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   -36.00 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                             ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =     10.5 MB of RAM.

**Input Runstream File:          aermod.inp
**Output Print File:             aermod.out

**Detailed Error/Message File:   6627b DHS 109 - 2 yr.err
**File for Summary of Results:   6627b DHS 109 - 2 yr.sum

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 2yr                          ***        05/22/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 2 yr                               ***        10:45:00
                                                                                                               PAGE   2
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** POINT SOURCE DATA ***
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SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR	EMIS RATE SCALAR VARY BY
STCK1	0	0.15400E-04	544038.8	3755457.5	288.1	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK2	0	0.15400E-04	543964.4	3755485.8	288.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK3	0	0.15400E-04	544154.1	3754819.6	276.3	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK4	0	0.15400E-04	544242.3	3754819.6	275.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK5	0	0.15400E-04	544098.1	3755457.0	287.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK6	0	0.15400E-04	544228.2	3755457.2	287.4	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK7	0	0.15400E-04	544288.7	3755456.9	287.0	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK8	0	0.15400E-04	543964.1	3755374.2	286.8	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK9	0	0.15400E-04	544038.3	3755339.9	285.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK10	0	0.15400E-04	544095.7	3755341.4	285.8	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK11	0	0.15400E-04	544222.8	3755337.4	285.2	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK12	0	0.15400E-04	544287.6	3755338.4	285.0	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK13	0	0.15400E-04	544384.0	3755372.0	284.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK14	0	0.15400E-04	544385.7	3755307.3	283.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK15	0	0.15400E-04	544039.1	3755242.6	283.6	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK16	0	0.15400E-04	544102.1	3755240.9	283.6	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK18	0	0.15400E-04	544221.3	3755240.9	283.5	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK19	0	0.15400E-04	544286.0	3755242.6	283.4	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK20	0	0.15400E-04	544163.4	3755195.7	282.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK21	0	0.15400E-04	544235.8	3755196.6	282.8	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK22	0	0.15400E-04	544091.9	3755163.4	282.4	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK23	0	0.15400E-04	544292.8	3755160.8	282.0	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK24	0	0.15400E-04	544383.3	3755192.5	282.2	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK25	0	0.15400E-04	544382.5	3755120.1	280.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK26	0	0.15400E-04	544167.2	3755002.5	279.5	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK27	0	0.15400E-04	544222.3	3755001.5	279.3	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK28	0	0.15400E-04	544294.4	3755041.5	279.8	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK29	0	0.15400E-04	544379.5	3755001.5	278.5	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK30	0	0.15400E-04	544379.7	3754935.8	277.2	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK31	0	0.15400E-04	544291.1	3754901.4	277.0	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK32	0	0.15400E-04	544165.6	3754937.7	278.3	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK33	0	0.15400E-04	544235.1	3754937.0	278.0	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK34	0	0.15400E-04	544317.6	3754820.8	275.4	3.66	366.00	51.90	0.10	YES	YES	NO	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY

L0037236	0	0.20420E-06	544360.9	3755555.2	288.1	0.00	1.70	0.76	YES
L0037237	0	0.20420E-06	544357.2	3755555.2	288.1	0.00	1.70	0.76	YES
L0037238	0	0.20420E-06	544353.6	3755555.2	288.1	0.00	1.70	0.76	YES
L0037239	0	0.20420E-06	544349.9	3755555.2	288.2	0.00	1.70	0.76	YES
L0037240	0	0.20420E-06	544346.2	3755555.1	288.2	0.00	1.70	0.76	YES
L0037241	0	0.20420E-06	544342.6	3755555.1	288.2	0.00	1.70	0.76	YES
L0037242	0	0.20420E-06	544338.9	3755555.1	288.2	0.00	1.70	0.76	YES
L0037243	0	0.20420E-06	544335.3	3755555.1	288.3	0.00	1.70	0.76	YES
L0037244	0	0.20420E-06	544331.6	3755555.0	288.3	0.00	1.70	0.76	YES
L0037245	0	0.20420E-06	544328.0	3755555.0	288.3	0.00	1.70	0.76	YES
L0037246	0	0.20420E-06	544324.3	3755555.0	288.3	0.00	1.70	0.76	YES
L0037247	0	0.20420E-06	544320.6	3755554.9	288.4	0.00	1.70	0.76	YES
L0037248	0	0.20420E-06	544317.0	3755554.9	288.4	0.00	1.70	0.76	YES
L0037249	0	0.20420E-06	544313.3	3755554.9	288.4	0.00	1.70	0.76	YES
L0037250	0	0.20420E-06	544309.7	3755554.9	288.4	0.00	1.70	0.76	YES
L0037251	0	0.20420E-06	544306.0	3755554.8	288.5	0.00	1.70	0.76	YES
L0037252	0	0.20420E-06	544302.4	3755554.8	288.5	0.00	1.70	0.76	YES
L0037253	0	0.20420E-06	544298.7	3755554.8	288.5	0.00	1.70	0.76	YES
L0037254	0	0.20420E-06	544295.0	3755554.8	288.6	0.00	1.70	0.76	YES
L0037255	0	0.20420E-06	544291.4	3755554.7	288.6	0.00	1.70	0.76	YES
L0037256	0	0.20420E-06	544287.7	3755554.7	288.6	0.00	1.70	0.76	YES
L0037257	0	0.20420E-06	544284.1	3755554.7	288.6	0.00	1.70	0.76	YES
L0037258	0	0.20420E-06	544280.4	3755554.7	288.6	0.00	1.70	0.76	YES
L0037259	0	0.20420E-06	544276.8	3755554.6	288.7	0.00	1.70	0.76	YES
L0037260	0	0.20420E-06	544273.1	3755554.6	288.7	0.00	1.70	0.76	YES
L0037261	0	0.20420E-06	544269.4	3755554.6	288.7	0.00	1.70	0.76	YES
L0037262	0	0.20420E-06	544265.8	3755554.6	288.7	0.00	1.70	0.76	YES
L0037263	0	0.20420E-06	544262.1	3755554.5	288.8	0.00	1.70	0.76	YES
L0037264	0	0.20420E-06	544258.5	3755554.5	288.8	0.00	1.70	0.76	YES
L0037265	0	0.20420E-06	544254.8	3755554.5	288.8	0.00	1.70	0.76	YES
L0037266	0	0.20420E-06	544251.1	3755554.4	288.8	0.00	1.70	0.76	YES
L0037267	0	0.20420E-06	544247.5	3755554.4	288.8	0.00	1.70	0.76	YES
L0037268	0	0.20420E-06	544243.8	3755554.4	288.9	0.00	1.70	0.76	YES
L0037269	0	0.20420E-06	544240.2	3755554.4	288.9	0.00	1.70	0.76	YES
L0037270	0	0.20420E-06	544236.5	3755554.3	288.9	0.00	1.70	0.76	YES
L0037271	0	0.20420E-06	544232.9	3755554.3	288.9	0.00	1.70	0.76	YES
L0037272	0	0.20420E-06	544229.2	3755554.3	288.9	0.00	1.70	0.76	YES
L0037273	0	0.20420E-06	544225.5	3755554.3	289.0	0.00	1.70	0.76	YES
L0037274	0	0.20420E-06	544221.9	3755554.2	289.0	0.00	1.70	0.76	YES
L0037275	0	0.20420E-06	544218.2	3755554.2	289.0	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER	EMISSION RATE	BASE	RELEASE	INIT.	INIT.	URBAN	EMISSION RATE

SOURCE ID	PART. CATS.	(GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE	SCALAR VARY BY
L0037276	0	0.20420E-06	544214.6	3755554.2	289.0	0.00	1.70	0.76	YES	
L0037277	0	0.20420E-06	544210.9	3755554.2	289.1	0.00	1.70	0.76	YES	
L0037278	0	0.20420E-06	544207.3	3755554.1	289.1	0.00	1.70	0.76	YES	
L0037279	0	0.20420E-06	544203.6	3755554.1	289.1	0.00	1.70	0.76	YES	
L0037280	0	0.20420E-06	544199.9	3755554.1	289.1	0.00	1.70	0.76	YES	
L0037281	0	0.20420E-06	544196.3	3755554.1	289.1	0.00	1.70	0.76	YES	
L0037282	0	0.20420E-06	544192.6	3755554.0	289.2	0.00	1.70	0.76	YES	
L0037283	0	0.20420E-06	544189.0	3755554.0	289.2	0.00	1.70	0.76	YES	
L0037284	0	0.20420E-06	544185.3	3755554.0	289.2	0.00	1.70	0.76	YES	
L0037285	0	0.20420E-06	544181.7	3755553.9	289.2	0.00	1.70	0.76	YES	
L0037286	0	0.20420E-06	544178.0	3755553.9	289.2	0.00	1.70	0.76	YES	
L0037287	0	0.20420E-06	544174.3	3755553.9	289.3	0.00	1.70	0.76	YES	
L0037288	0	0.20420E-06	544170.7	3755553.9	289.3	0.00	1.70	0.76	YES	
L0037289	0	0.20420E-06	544167.0	3755553.8	289.3	0.00	1.70	0.76	YES	
L0037290	0	0.20420E-06	544163.4	3755553.8	289.3	0.00	1.70	0.76	YES	
L0037291	0	0.20420E-06	544159.7	3755553.8	289.4	0.00	1.70	0.76	YES	
L0037292	0	0.20420E-06	544156.1	3755553.8	289.4	0.00	1.70	0.76	YES	
L0037293	0	0.20420E-06	544152.4	3755553.7	289.4	0.00	1.70	0.76	YES	
L0037294	0	0.20420E-06	544148.7	3755553.7	289.4	0.00	1.70	0.76	YES	
L0037295	0	0.20420E-06	544145.1	3755553.7	289.4	0.00	1.70	0.76	YES	
L0037296	0	0.20420E-06	544141.4	3755553.7	289.4	0.00	1.70	0.76	YES	
L0037297	0	0.20420E-06	544137.8	3755553.6	289.5	0.00	1.70	0.76	YES	
L0037298	0	0.20420E-06	544134.1	3755553.6	289.5	0.00	1.70	0.76	YES	
L0037299	0	0.20420E-06	544130.5	3755553.6	289.5	0.00	1.70	0.76	YES	
L0037300	0	0.20420E-06	544126.8	3755553.6	289.5	0.00	1.70	0.76	YES	
L0037301	0	0.20420E-06	544123.1	3755553.5	289.5	0.00	1.70	0.76	YES	
L0037302	0	0.20420E-06	544119.5	3755553.5	289.5	0.00	1.70	0.76	YES	
L0037303	0	0.20420E-06	544115.8	3755553.5	289.6	0.00	1.70	0.76	YES	
L0037304	0	0.20420E-06	544112.2	3755553.4	289.6	0.00	1.70	0.76	YES	
L0037305	0	0.20420E-06	544108.5	3755553.4	289.6	0.00	1.70	0.76	YES	
L0037306	0	0.20420E-06	544104.8	3755553.4	289.6	0.00	1.70	0.76	YES	
L0037307	0	0.20420E-06	544101.2	3755553.4	289.6	0.00	1.70	0.76	YES	
L0037308	0	0.20420E-06	544097.5	3755553.3	289.6	0.00	1.70	0.76	YES	
L0037309	0	0.20420E-06	544093.9	3755553.3	289.7	0.00	1.70	0.76	YES	
L0037310	0	0.20420E-06	544090.2	3755553.3	289.7	0.00	1.70	0.76	YES	
L0037311	0	0.20420E-06	544086.6	3755553.3	289.7	0.00	1.70	0.76	YES	
L0037312	0	0.20420E-06	544082.9	3755553.2	289.7	0.00	1.70	0.76	YES	
L0037313	0	0.20420E-06	544079.2	3755553.2	289.7	0.00	1.70	0.76	YES	
L0037314	0	0.20420E-06	544075.6	3755553.2	289.8	0.00	1.70	0.76	YES	
L0037315	0	0.20420E-06	544071.9	3755553.2	289.8	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0037316	0	0.20420E-06	544068.3	3755553.1	289.8	0.00	1.70	0.76	YES	
L0037317	0	0.20420E-06	544064.6	3755553.1	289.8	0.00	1.70	0.76	YES	
L0037318	0	0.20420E-06	544061.0	3755553.1	289.8	0.00	1.70	0.76	YES	
L0037319	0	0.20420E-06	544057.3	3755553.1	289.9	0.00	1.70	0.76	YES	
L0037320	0	0.20420E-06	544053.6	3755553.0	289.9	0.00	1.70	0.76	YES	
L0037321	0	0.20420E-06	544050.0	3755553.0	289.9	0.00	1.70	0.76	YES	
L0037322	0	0.20420E-06	544046.3	3755553.0	289.9	0.00	1.70	0.76	YES	
L0037323	0	0.20420E-06	544042.7	3755552.9	289.9	0.00	1.70	0.76	YES	
L0037324	0	0.20420E-06	544039.0	3755552.9	289.9	0.00	1.70	0.76	YES	
L0037325	0	0.20420E-06	544035.4	3755552.9	289.9	0.00	1.70	0.76	YES	
L0037326	0	0.20420E-06	544031.7	3755552.9	290.0	0.00	1.70	0.76	YES	
L0037327	0	0.20420E-06	544028.0	3755552.8	290.0	0.00	1.70	0.76	YES	
L0037328	0	0.20420E-06	544024.4	3755552.8	290.0	0.00	1.70	0.76	YES	
L0037329	0	0.20420E-06	544020.7	3755552.8	290.1	0.00	1.70	0.76	YES	
L0037330	0	0.20420E-06	544017.1	3755552.8	290.1	0.00	1.70	0.76	YES	
L0037331	0	0.20420E-06	544013.4	3755552.7	290.1	0.00	1.70	0.76	YES	
L0037332	0	0.20420E-06	544009.8	3755552.7	290.1	0.00	1.70	0.76	YES	
L0037333	0	0.20420E-06	544006.1	3755552.7	290.2	0.00	1.70	0.76	YES	
L0037334	0	0.20420E-06	544002.4	3755552.7	290.2	0.00	1.70	0.76	YES	
L0037335	0	0.20420E-06	543998.8	3755552.6	290.2	0.00	1.70	0.76	YES	
L0037336	0	0.20420E-06	543995.1	3755552.6	290.2	0.00	1.70	0.76	YES	
L0037337	0	0.20420E-06	543991.5	3755552.6	290.2	0.00	1.70	0.76	YES	
L0037338	0	0.20420E-06	543987.8	3755552.6	290.3	0.00	1.70	0.76	YES	
L0037339	0	0.20420E-06	543984.2	3755552.5	290.3	0.00	1.70	0.76	YES	
L0037340	0	0.20420E-06	543980.5	3755552.5	290.3	0.00	1.70	0.76	YES	
L0037341	0	0.20420E-06	543976.8	3755552.5	290.3	0.00	1.70	0.76	YES	
L0037342	0	0.20420E-06	543973.2	3755552.4	290.3	0.00	1.70	0.76	YES	
L0037343	0	0.20420E-06	543969.5	3755552.4	290.3	0.00	1.70	0.76	YES	
L0037344	0	0.20420E-06	543965.9	3755552.4	290.3	0.00	1.70	0.76	YES	
L0037345	0	0.20420E-06	543962.2	3755552.4	290.3	0.00	1.70	0.76	YES	
L0037346	0	0.20420E-06	543958.5	3755552.3	290.4	0.00	1.70	0.76	YES	
L0037347	0	0.20420E-06	543954.9	3755552.3	290.4	0.00	1.70	0.76	YES	
L0037348	0	0.20420E-06	543951.2	3755552.3	290.4	0.00	1.70	0.76	YES	
L0037349	0	0.20420E-06	543947.6	3755552.3	290.5	0.00	1.70	0.76	YES	
L0037350	0	0.20420E-06	543943.9	3755552.2	290.5	0.00	1.70	0.76	YES	
L0037351	0	0.20420E-06	543940.3	3755552.2	290.5	0.00	1.70	0.76	YES	
L0037352	0	0.20420E-06	543936.6	3755552.2	290.6	0.00	1.70	0.76	YES	
L0037353	0	0.20420E-06	543932.9	3755552.2	290.6	0.00	1.70	0.76	YES	
L0037354	0	0.20420E-06	543929.3	3755552.3	290.6	0.00	1.70	0.76	YES	
L0037355	0	0.20420E-06	543925.6	3755552.4	290.6	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0037356	0	0.20420E-06	543922.0	3755552.6	290.7	0.00	1.70	0.76	YES	
L0037357	0	0.20420E-06	543918.3	3755552.8	290.7	0.00	1.70	0.76	YES	
L0037358	0	0.20420E-06	543914.7	3755553.0	290.7	0.00	1.70	0.76	YES	
L0037359	0	0.20420E-06	543911.0	3755553.2	290.7	0.00	1.70	0.76	YES	
L0037360	0	0.20420E-06	543907.4	3755553.4	290.8	0.00	1.70	0.76	YES	
L0037361	0	0.20420E-06	543903.7	3755553.6	290.8	0.00	1.70	0.76	YES	
L0037362	0	0.20420E-06	543900.1	3755553.7	290.8	0.00	1.70	0.76	YES	
L0037363	0	0.20420E-06	543896.4	3755553.9	290.9	0.00	1.70	0.76	YES	
L0037364	0	0.20420E-06	543892.8	3755554.2	290.9	0.00	1.70	0.76	YES	
L0037365	0	0.20420E-06	543889.4	3755555.5	290.9	0.00	1.70	0.76	YES	
L0037366	0	0.20420E-06	543886.0	3755556.9	291.0	0.00	1.70	0.76	YES	
L0037367	0	0.20420E-06	543882.6	3755558.3	291.0	0.00	1.70	0.76	YES	
L0037368	0	0.20420E-06	543879.2	3755559.7	291.1	0.00	1.70	0.76	YES	
L0037369	0	0.20420E-06	543875.8	3755561.0	291.2	0.00	1.70	0.76	YES	
L0037370	0	0.20420E-06	543872.4	3755562.4	291.2	0.00	1.70	0.76	YES	
L0037371	0	0.20420E-06	543869.1	3755563.8	291.3	0.00	1.70	0.76	YES	
L0037372	0	0.20420E-06	543865.7	3755565.2	291.3	0.00	1.70	0.76	YES	
L0037373	0	0.20420E-06	543862.3	3755566.6	291.4	0.00	1.70	0.76	YES	
L0037374	0	0.20420E-06	543859.4	3755568.8	291.5	0.00	1.70	0.76	YES	
L0037375	0	0.20420E-06	543856.4	3755571.0	291.5	0.00	1.70	0.76	YES	
L0037376	0	0.20420E-06	543853.5	3755573.2	291.6	0.00	1.70	0.76	YES	
L0037377	0	0.20420E-06	543850.6	3755575.4	291.7	0.00	1.70	0.76	YES	
L0037378	0	0.20420E-06	543847.7	3755577.6	291.8	0.00	1.70	0.76	YES	
L0037379	0	0.20420E-06	543844.7	3755579.7	291.8	0.00	1.70	0.76	YES	
L0037380	0	0.20420E-06	543841.8	3755581.9	291.9	0.00	1.70	0.76	YES	
L0037381	0	0.20420E-06	543838.9	3755584.1	292.0	0.00	1.70	0.76	YES	
L0037382	0	0.20420E-06	543835.9	3755586.3	292.1	0.00	1.70	0.76	YES	
L0037383	0	0.20420E-06	543833.0	3755588.5	292.1	0.00	1.70	0.76	YES	
L0037384	0	0.20420E-06	543830.1	3755590.7	292.2	0.00	1.70	0.76	YES	
L0037385	0	0.20420E-06	543827.2	3755592.9	292.2	0.00	1.70	0.76	YES	
L0037386	0	0.20420E-06	543824.2	3755595.1	292.3	0.00	1.70	0.76	YES	
L0037387	0	0.20420E-06	543821.3	3755597.3	292.4	0.00	1.70	0.76	YES	
L0037388	0	0.20420E-06	543818.4	3755599.5	292.4	0.00	1.70	0.76	YES	
L0037389	0	0.20420E-06	543815.4	3755601.5	292.5	0.00	1.70	0.76	YES	
L0037390	0	0.20420E-06	543812.1	3755603.2	292.5	0.00	1.70	0.76	YES	
L0037391	0	0.20420E-06	543808.8	3755604.8	292.6	0.00	1.70	0.76	YES	
L0037392	0	0.20420E-06	543805.6	3755606.4	292.7	0.00	1.70	0.76	YES	
L0037393	0	0.20420E-06	543802.3	3755608.1	292.7	0.00	1.70	0.76	YES	
L0037394	0	0.20420E-06	543799.0	3755609.7	292.8	0.00	1.70	0.76	YES	
L0037395	0	0.20420E-06	543795.7	3755611.3	292.8	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0037396	0	0.20420E-06	543792.5	3755613.0	292.9	0.00	1.70	0.76	YES	
L0037397	0	0.20420E-06	543789.2	3755614.6	292.9	0.00	1.70	0.76	YES	
L0037398	0	0.20420E-06	543785.9	3755616.2	293.0	0.00	1.70	0.76	YES	
L0037399	0	0.20420E-06	543782.6	3755617.9	293.0	0.00	1.70	0.76	YES	
L0037400	0	0.20420E-06	543779.4	3755619.5	293.1	0.00	1.70	0.76	YES	
L0037401	0	0.20420E-06	543776.0	3755620.8	293.1	0.00	1.70	0.76	YES	
L0037402	0	0.20420E-06	543772.5	3755621.9	293.2	0.00	1.70	0.76	YES	
L0037403	0	0.20420E-06	543769.0	3755622.9	293.2	0.00	1.70	0.76	YES	
L0037404	0	0.20420E-06	543765.4	3755623.9	293.3	0.00	1.70	0.76	YES	
L0037405	0	0.20420E-06	543761.9	3755624.9	293.4	0.00	1.70	0.76	YES	
L0037406	0	0.20420E-06	543758.4	3755625.9	293.4	0.00	1.70	0.76	YES	
L0037407	0	0.20420E-06	543754.9	3755627.0	293.5	0.00	1.70	0.76	YES	
L0037408	0	0.20420E-06	543751.4	3755628.0	293.5	0.00	1.70	0.76	YES	
L0037409	0	0.20420E-06	543747.9	3755629.0	293.6	0.00	1.70	0.76	YES	
L0037410	0	0.20420E-06	543744.4	3755630.0	293.6	0.00	1.70	0.76	YES	
L0037411	0	0.20420E-06	543740.8	3755630.9	293.6	0.00	1.70	0.76	YES	
L0037412	0	0.20420E-06	543737.2	3755630.9	293.7	0.00	1.70	0.76	YES	
L0037413	0	0.20420E-06	543733.5	3755630.9	293.7	0.00	1.70	0.76	YES	
L0037414	0	0.20420E-06	543729.9	3755630.9	293.7	0.00	1.70	0.76	YES	
L0037415	0	0.20420E-06	543726.2	3755630.9	293.7	0.00	1.70	0.76	YES	
L0037416	0	0.20420E-06	543722.5	3755631.0	293.8	0.00	1.70	0.76	YES	
L0037417	0	0.20420E-06	543718.9	3755631.0	293.8	0.00	1.70	0.76	YES	
L0037418	0	0.20420E-06	543715.2	3755631.0	293.8	0.00	1.70	0.76	YES	
L0037419	0	0.20420E-06	543711.6	3755631.0	293.8	0.00	1.70	0.76	YES	
L0037420	0	0.20420E-06	543707.9	3755631.0	293.8	0.00	1.70	0.76	YES	
L0037421	0	0.20420E-06	543704.3	3755631.1	293.9	0.00	1.70	0.76	YES	
L0037422	0	0.20420E-06	543700.6	3755631.1	293.9	0.00	1.70	0.76	YES	
L0037423	0	0.20420E-06	543696.9	3755631.1	293.9	0.00	1.70	0.76	YES	
L0037424	0	0.20420E-06	543693.3	3755631.1	293.9	0.00	1.70	0.76	YES	
L0037425	0	0.20420E-06	543689.6	3755631.1	294.0	0.00	1.70	0.76	YES	
L0038523	0	0.22770E-06	544361.2	3755546.1	288.0	0.00	1.70	0.76	YES	
L0038524	0	0.22770E-06	544361.2	3755542.5	287.9	0.00	1.70	0.76	YES	
L0038525	0	0.22770E-06	544361.2	3755538.8	287.9	0.00	1.70	0.76	YES	
L0038526	0	0.22770E-06	544361.2	3755535.2	287.8	0.00	1.70	0.76	YES	
L0038527	0	0.22770E-06	544361.3	3755531.5	287.8	0.00	1.70	0.76	YES	
L0038528	0	0.22770E-06	544361.3	3755527.9	287.8	0.00	1.70	0.76	YES	
L0038529	0	0.22770E-06	544361.3	3755524.2	287.7	0.00	1.70	0.76	YES	
L0038530	0	0.22770E-06	544361.3	3755520.5	287.6	0.00	1.70	0.76	YES	

L0038531	0	0.22770E-06	544361.4	3755516.9	287.6	0.00	1.70	0.76	YES	
L0038532	0	0.22770E-06	544361.4	3755513.2	287.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0038533	0	0.22770E-06	544361.4	3755509.6	287.5	0.00	1.70	0.76	YES	
L0038534	0	0.22770E-06	544361.4	3755505.9	287.4	0.00	1.70	0.76	YES	
L0038535	0	0.22770E-06	544361.5	3755502.2	287.4	0.00	1.70	0.76	YES	
L0038536	0	0.22770E-06	544361.5	3755498.6	287.3	0.00	1.70	0.76	YES	
L0038537	0	0.22770E-06	544361.5	3755494.9	287.2	0.00	1.70	0.76	YES	
L0038538	0	0.22770E-06	544361.5	3755491.3	287.2	0.00	1.70	0.76	YES	
L0038539	0	0.22770E-06	544361.6	3755487.6	287.1	0.00	1.70	0.76	YES	
L0038540	0	0.22770E-06	544361.6	3755484.0	287.1	0.00	1.70	0.76	YES	
L0038541	0	0.22770E-06	544361.6	3755480.3	287.0	0.00	1.70	0.76	YES	
L0038542	0	0.22770E-06	544361.6	3755476.6	286.9	0.00	1.70	0.76	YES	
L0038543	0	0.22770E-06	544361.7	3755473.0	286.9	0.00	1.70	0.76	YES	
L0038544	0	0.22770E-06	544361.7	3755469.3	286.8	0.00	1.70	0.76	YES	
L0038545	0	0.22770E-06	544361.7	3755465.7	286.8	0.00	1.70	0.76	YES	
L0038546	0	0.22770E-06	544361.7	3755462.0	286.7	0.00	1.70	0.76	YES	
L0038547	0	0.22770E-06	544361.8	3755458.4	286.6	0.00	1.70	0.76	YES	
L0038548	0	0.22770E-06	544361.8	3755454.7	286.6	0.00	1.70	0.76	YES	
L0038549	0	0.22770E-06	544361.8	3755451.0	286.5	0.00	1.70	0.76	YES	
L0038550	0	0.22770E-06	544361.8	3755447.4	286.4	0.00	1.70	0.76	YES	
L0038551	0	0.22770E-06	544361.9	3755443.7	286.4	0.00	1.70	0.76	YES	
L0038552	0	0.22770E-06	544361.9	3755440.1	286.3	0.00	1.70	0.76	YES	
L0038553	0	0.22770E-06	544361.9	3755436.4	286.2	0.00	1.70	0.76	YES	
L0038554	0	0.22770E-06	544361.9	3755432.8	286.2	0.00	1.70	0.76	YES	
L0038555	0	0.22770E-06	544362.0	3755429.1	286.1	0.00	1.70	0.76	YES	
L0038556	0	0.22770E-06	544362.0	3755425.4	286.1	0.00	1.70	0.76	YES	
L0038557	0	0.22770E-06	544362.0	3755421.8	286.0	0.00	1.70	0.76	YES	
L0038558	0	0.22770E-06	544362.0	3755418.1	285.9	0.00	1.70	0.76	YES	
L0038559	0	0.22770E-06	544362.1	3755414.5	285.9	0.00	1.70	0.76	YES	
L0038560	0	0.22770E-06	544362.1	3755410.8	285.8	0.00	1.70	0.76	YES	
L0038561	0	0.22770E-06	544362.1	3755407.2	285.7	0.00	1.70	0.76	YES	
L0038562	0	0.22770E-06	544362.1	3755403.5	285.6	0.00	1.70	0.76	YES	
L0038563	0	0.22770E-06	544362.2	3755399.8	285.6	0.00	1.70	0.76	YES	
L0038564	0	0.22770E-06	544362.2	3755396.2	285.5	0.00	1.70	0.76	YES	
L0038565	0	0.22770E-06	544362.2	3755392.5	285.4	0.00	1.70	0.76	YES	
L0038566	0	0.22770E-06	544362.2	3755388.9	285.4	0.00	1.70	0.76	YES	
L0038567	0	0.22770E-06	544362.3	3755385.2	285.3	0.00	1.70	0.76	YES	

L0038568	0	0.22770E-06	544362.3	3755381.6	285.2	0.00	1.70	0.76	YES	
L0038569	0	0.22770E-06	544362.3	3755377.9	285.2	0.00	1.70	0.76	YES	
L0038570	0	0.22770E-06	544362.3	3755374.2	285.1	0.00	1.70	0.76	YES	
L0038571	0	0.22770E-06	544362.4	3755370.6	285.0	0.00	1.70	0.76	YES	
L0038572	0	0.22770E-06	544362.4	3755366.9	285.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0038573	0	0.22770E-06	544362.4	3755363.3	284.9	0.00	1.70	0.76	YES	
L0038574	0	0.22770E-06	544362.4	3755359.6	284.9	0.00	1.70	0.76	YES	
L0038575	0	0.22770E-06	544362.5	3755355.9	284.8	0.00	1.70	0.76	YES	
L0038576	0	0.22770E-06	544362.5	3755352.3	284.8	0.00	1.70	0.76	YES	
L0038577	0	0.22770E-06	544362.5	3755348.6	284.7	0.00	1.70	0.76	YES	
L0038578	0	0.22770E-06	544362.5	3755345.0	284.6	0.00	1.70	0.76	YES	
L0038579	0	0.22770E-06	544362.6	3755341.3	284.6	0.00	1.70	0.76	YES	
L0038580	0	0.22770E-06	544362.6	3755337.7	284.5	0.00	1.70	0.76	YES	
L0038581	0	0.22770E-06	544362.6	3755334.0	284.4	0.00	1.70	0.76	YES	
L0038582	0	0.22770E-06	544362.6	3755330.3	284.4	0.00	1.70	0.76	YES	
L0038583	0	0.22770E-06	544362.7	3755326.7	284.3	0.00	1.70	0.76	YES	
L0038584	0	0.22770E-06	544362.7	3755323.0	284.3	0.00	1.70	0.76	YES	
L0038585	0	0.22770E-06	544362.7	3755319.4	284.2	0.00	1.70	0.76	YES	
L0038586	0	0.22770E-06	544362.7	3755315.7	284.1	0.00	1.70	0.76	YES	
L0038587	0	0.22770E-06	544362.8	3755312.1	284.1	0.00	1.70	0.76	YES	
L0038588	0	0.22770E-06	544362.8	3755308.4	284.0	0.00	1.70	0.76	YES	
L0038589	0	0.22770E-06	544362.8	3755304.7	284.0	0.00	1.70	0.76	YES	
L0038590	0	0.22770E-06	544362.8	3755301.1	283.9	0.00	1.70	0.76	YES	
L0038591	0	0.22770E-06	544362.9	3755297.4	283.9	0.00	1.70	0.76	YES	
L0038592	0	0.22770E-06	544362.9	3755293.8	283.8	0.00	1.70	0.76	YES	
L0038593	0	0.22770E-06	544362.9	3755290.1	283.8	0.00	1.70	0.76	YES	
L0038594	0	0.22770E-06	544362.9	3755286.5	283.7	0.00	1.70	0.76	YES	
L0038595	0	0.22770E-06	544363.0	3755282.8	283.7	0.00	1.70	0.76	YES	
L0038596	0	0.22770E-06	544363.0	3755279.1	283.6	0.00	1.70	0.76	YES	
L0038597	0	0.22770E-06	544363.0	3755275.5	283.5	0.00	1.70	0.76	YES	
L0038598	0	0.22770E-06	544363.0	3755271.8	283.5	0.00	1.70	0.76	YES	
L0038599	0	0.22770E-06	544363.1	3755268.2	283.4	0.00	1.70	0.76	YES	
L0038600	0	0.22770E-06	544363.1	3755264.5	283.4	0.00	1.70	0.76	YES	
L0038601	0	0.22770E-06	544363.1	3755260.9	283.3	0.00	1.70	0.76	YES	
L0038602	0	0.22770E-06	544363.1	3755257.2	283.2	0.00	1.70	0.76	YES	
L0038603	0	0.22770E-06	544363.1	3755253.5	283.2	0.00	1.70	0.76	YES	
L0038604	0	0.22770E-06	544363.2	3755249.9	283.1	0.00	1.70	0.76	YES	

L0038605	0	0.22770E-06	544363.2	3755246.2	283.1	0.00	1.70	0.76	YES	
L0038606	0	0.22770E-06	544363.2	3755242.6	283.0	0.00	1.70	0.76	YES	
L0038607	0	0.22770E-06	544363.2	3755238.9	282.9	0.00	1.70	0.76	YES	
L0038608	0	0.22770E-06	544363.3	3755235.3	282.9	0.00	1.70	0.76	YES	
L0038609	0	0.22770E-06	544363.3	3755231.6	282.8	0.00	1.70	0.76	YES	
L0038610	0	0.22770E-06	544363.3	3755227.9	282.8	0.00	1.70	0.76	YES	
L0038611	0	0.22770E-06	544363.3	3755224.3	282.7	0.00	1.70	0.76	YES	
L0038612	0	0.22770E-06	544363.4	3755220.6	282.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0038613	0	0.22770E-06	544363.4	3755217.0	282.6	0.00	1.70	0.76	YES	
L0038614	0	0.22770E-06	544363.4	3755213.3	282.5	0.00	1.70	0.76	YES	
L0038615	0	0.22770E-06	544363.4	3755209.6	282.5	0.00	1.70	0.76	YES	
L0038616	0	0.22770E-06	544363.5	3755206.0	282.4	0.00	1.70	0.76	YES	
L0038617	0	0.22770E-06	544363.5	3755202.3	282.4	0.00	1.70	0.76	YES	
L0038618	0	0.22770E-06	544363.5	3755198.7	282.3	0.00	1.70	0.76	YES	
L0038619	0	0.22770E-06	544363.5	3755195.0	282.3	0.00	1.70	0.76	YES	
L0038620	0	0.22770E-06	544363.6	3755191.4	282.2	0.00	1.70	0.76	YES	
L0038621	0	0.22770E-06	544363.6	3755187.7	282.2	0.00	1.70	0.76	YES	
L0038622	0	0.22770E-06	544363.6	3755184.0	282.1	0.00	1.70	0.76	YES	
L0038623	0	0.22770E-06	544363.6	3755180.4	282.0	0.00	1.70	0.76	YES	
L0038624	0	0.22770E-06	544363.7	3755176.7	282.0	0.00	1.70	0.76	YES	
L0038625	0	0.22770E-06	544363.7	3755173.1	281.9	0.00	1.70	0.76	YES	
L0038626	0	0.22770E-06	544363.7	3755169.4	281.9	0.00	1.70	0.76	YES	
L0038627	0	0.22770E-06	544363.7	3755165.8	281.8	0.00	1.70	0.76	YES	
L0038628	0	0.22770E-06	544363.8	3755162.1	281.7	0.00	1.70	0.76	YES	
L0038629	0	0.22770E-06	544363.8	3755158.4	281.7	0.00	1.70	0.76	YES	
L0038630	0	0.22770E-06	544363.8	3755154.8	281.6	0.00	1.70	0.76	YES	
L0038631	0	0.22770E-06	544363.8	3755151.1	281.6	0.00	1.70	0.76	YES	
L0038632	0	0.22770E-06	544363.9	3755147.5	281.5	0.00	1.70	0.76	YES	
L0038633	0	0.22770E-06	544363.9	3755143.8	281.4	0.00	1.70	0.76	YES	
L0038634	0	0.22770E-06	544363.9	3755140.2	281.4	0.00	1.70	0.76	YES	
L0038635	0	0.22770E-06	544363.9	3755136.5	281.3	0.00	1.70	0.76	YES	
L0038636	0	0.22770E-06	544364.0	3755132.8	281.3	0.00	1.70	0.76	YES	
L0038637	0	0.22770E-06	544364.0	3755129.2	281.2	0.00	1.70	0.76	YES	
L0038638	0	0.22770E-06	544364.0	3755125.5	281.1	0.00	1.70	0.76	YES	
L0038639	0	0.22770E-06	544364.0	3755121.9	281.1	0.00	1.70	0.76	YES	
L0038640	0	0.22770E-06	544364.1	3755118.2	281.0	0.00	1.70	0.76	YES	
L0038641	0	0.22770E-06	544364.1	3755114.6	280.9	0.00	1.70	0.76	YES	

L0038642	0	0.22770E-06	544364.1	3755110.9	280.8	0.00	1.70	0.76	YES
L0038643	0	0.22770E-06	544364.1	3755107.2	280.8	0.00	1.70	0.76	YES
L0038644	0	0.22770E-06	544364.2	3755103.6	280.7	0.00	1.70	0.76	YES
L0038645	0	0.22770E-06	544364.2	3755099.9	280.6	0.00	1.70	0.76	YES
L0038646	0	0.22770E-06	544364.2	3755096.3	280.5	0.00	1.70	0.76	YES
L0038647	0	0.22770E-06	544364.2	3755092.6	280.5	0.00	1.70	0.76	YES
L0038648	0	0.22770E-06	544364.3	3755089.0	280.4	0.00	1.70	0.76	YES
L0038649	0	0.22770E-06	544364.3	3755085.3	280.3	0.00	1.70	0.76	YES
L0038650	0	0.22770E-06	544364.3	3755081.6	280.2	0.00	1.70	0.76	YES
L0038651	0	0.22770E-06	544364.3	3755078.0	280.2	0.00	1.70	0.76	YES
L0038652	0	0.22770E-06	544364.4	3755074.3	280.1	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0038653	0	0.22770E-06	544364.4	3755070.7	280.0	0.00	1.70	0.76	YES	
L0038654	0	0.22770E-06	544364.4	3755067.0	279.9	0.00	1.70	0.76	YES	
L0038655	0	0.22770E-06	544364.4	3755063.3	279.9	0.00	1.70	0.76	YES	
L0038656	0	0.22770E-06	544364.5	3755059.7	279.8	0.00	1.70	0.76	YES	
L0038657	0	0.22770E-06	544364.5	3755056.0	279.7	0.00	1.70	0.76	YES	
L0038658	0	0.22770E-06	544364.5	3755052.4	279.6	0.00	1.70	0.76	YES	
L0038659	0	0.22770E-06	544364.5	3755048.7	279.6	0.00	1.70	0.76	YES	
L0038660	0	0.22770E-06	544364.6	3755045.1	279.5	0.00	1.70	0.76	YES	
L0038661	0	0.22770E-06	544364.6	3755041.4	279.4	0.00	1.70	0.76	YES	
L0038662	0	0.22770E-06	544364.6	3755037.7	279.3	0.00	1.70	0.76	YES	
L0038663	0	0.22770E-06	544364.6	3755034.1	279.3	0.00	1.70	0.76	YES	
L0038664	0	0.22770E-06	544364.7	3755030.4	279.2	0.00	1.70	0.76	YES	
L0038665	0	0.22770E-06	544364.7	3755026.8	279.1	0.00	1.70	0.76	YES	
L0038666	0	0.22770E-06	544364.7	3755023.1	279.1	0.00	1.70	0.76	YES	
L0038667	0	0.22770E-06	544364.7	3755019.5	279.0	0.00	1.70	0.76	YES	
L0038668	0	0.22770E-06	544364.8	3755015.8	278.9	0.00	1.70	0.76	YES	
L0038669	0	0.22770E-06	544364.8	3755012.1	278.8	0.00	1.70	0.76	YES	
L0038670	0	0.22770E-06	544364.8	3755008.5	278.8	0.00	1.70	0.76	YES	
L0038671	0	0.22770E-06	544364.8	3755004.8	278.7	0.00	1.70	0.76	YES	
L0038672	0	0.22770E-06	544364.9	3755001.2	278.6	0.00	1.70	0.76	YES	
L0038673	0	0.22770E-06	544364.9	3754997.5	278.5	0.00	1.70	0.76	YES	
L0038674	0	0.22770E-06	544364.9	3754993.9	278.5	0.00	1.70	0.76	YES	
L0038675	0	0.22770E-06	544364.9	3754990.2	278.4	0.00	1.70	0.76	YES	
L0038676	0	0.22770E-06	544365.0	3754986.5	278.3	0.00	1.70	0.76	YES	
L0038677	0	0.22770E-06	544365.0	3754982.9	278.2	0.00	1.70	0.76	YES	
L0038678	0	0.22770E-06	544365.0	3754979.2	278.2	0.00	1.70	0.76	YES	

L0038679	0	0.22770E-06	544365.0	3754975.6	278.1	0.00	1.70	0.76	YES	
L0038680	0	0.22770E-06	544365.1	3754971.9	278.0	0.00	1.70	0.76	YES	
L0038681	0	0.22770E-06	544365.1	3754968.3	277.9	0.00	1.70	0.76	YES	
L0038682	0	0.22770E-06	544365.1	3754964.6	277.9	0.00	1.70	0.76	YES	
L0038683	0	0.22770E-06	544365.1	3754960.9	277.8	0.00	1.70	0.76	YES	
L0038684	0	0.22770E-06	544365.2	3754957.3	277.7	0.00	1.70	0.76	YES	
L0038685	0	0.22770E-06	544365.2	3754953.6	277.7	0.00	1.70	0.76	YES	
L0038686	0	0.22770E-06	544365.2	3754950.0	277.6	0.00	1.70	0.76	YES	
L0038687	0	0.22770E-06	544365.2	3754946.3	277.5	0.00	1.70	0.76	YES	
L0038688	0	0.22770E-06	544365.2	3754942.6	277.4	0.00	1.70	0.76	YES	
L0038689	0	0.22770E-06	544365.3	3754939.0	277.4	0.00	1.70	0.76	YES	
L0038690	0	0.22770E-06	544365.3	3754935.3	277.3	0.00	1.70	0.76	YES	
L0038691	0	0.22770E-06	544365.3	3754931.7	277.2	0.00	1.70	0.76	YES	
L0038692	0	0.22770E-06	544365.3	3754928.0	277.1	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0038693	0	0.22770E-06	544365.4	3754924.4	277.1	0.00	1.70	0.76	YES	
L0038694	0	0.22770E-06	544365.4	3754920.7	277.0	0.00	1.70	0.76	YES	
L0038695	0	0.22770E-06	544365.4	3754917.0	276.9	0.00	1.70	0.76	YES	
L0038696	0	0.22770E-06	544365.4	3754913.4	276.9	0.00	1.70	0.76	YES	
L0038697	0	0.22770E-06	544365.5	3754909.7	276.8	0.00	1.70	0.76	YES	
L0038698	0	0.22770E-06	544365.5	3754906.1	276.7	0.00	1.70	0.76	YES	
L0038699	0	0.22770E-06	544365.5	3754902.4	276.6	0.00	1.70	0.76	YES	
L0038700	0	0.22770E-06	544365.5	3754898.8	276.6	0.00	1.70	0.76	YES	
L0038701	0	0.22770E-06	544365.6	3754895.1	276.5	0.00	1.70	0.76	YES	
L0038702	0	0.22770E-06	544365.6	3754891.4	276.4	0.00	1.70	0.76	YES	
L0038703	0	0.22770E-06	544365.6	3754887.8	276.4	0.00	1.70	0.76	YES	
L0038704	0	0.22770E-06	544365.6	3754884.1	276.3	0.00	1.70	0.76	YES	
L0038705	0	0.22770E-06	544365.7	3754880.5	276.2	0.00	1.70	0.76	YES	
L0038706	0	0.22770E-06	544365.7	3754876.8	276.1	0.00	1.70	0.76	YES	
L0038707	0	0.22770E-06	544365.7	3754873.2	276.1	0.00	1.70	0.76	YES	
L0038708	0	0.22770E-06	544365.7	3754869.5	276.0	0.00	1.70	0.76	YES	
L0038709	0	0.22770E-06	544365.8	3754865.8	275.9	0.00	1.70	0.76	YES	
L0038710	0	0.22770E-06	544365.8	3754862.2	275.9	0.00	1.70	0.76	YES	
L0038711	0	0.22770E-06	544365.8	3754858.5	275.8	0.00	1.70	0.76	YES	
L0038712	0	0.22770E-06	544365.8	3754854.9	275.7	0.00	1.70	0.76	YES	
L0038713	0	0.22770E-06	544365.9	3754851.2	275.6	0.00	1.70	0.76	YES	
L0038714	0	0.22770E-06	544365.9	3754847.6	275.6	0.00	1.70	0.76	YES	
L0038715	0	0.22770E-06	544365.9	3754843.9	275.5	0.00	1.70	0.76	YES	

L0038716	0	0.22770E-06	544365.9	3754840.2	275.4	0.00	1.70	0.76	YES	
L0038717	0	0.22770E-06	544366.0	3754836.6	275.4	0.00	1.70	0.76	YES	
L0038718	0	0.22770E-06	544366.0	3754832.9	275.3	0.00	1.70	0.76	YES	
L0038719	0	0.22770E-06	544366.0	3754829.3	275.2	0.00	1.70	0.76	YES	
L0038720	0	0.22770E-06	544366.0	3754825.6	275.2	0.00	1.70	0.76	YES	
L0038721	0	0.22770E-06	544366.1	3754822.0	275.1	0.00	1.70	0.76	YES	
L0038722	0	0.22770E-06	544366.1	3754818.3	275.0	0.00	1.70	0.76	YES	
L0038723	0	0.22770E-06	544366.1	3754814.6	275.0	0.00	1.70	0.76	YES	
L0038724	0	0.22770E-06	544366.1	3754811.0	274.9	0.00	1.70	0.76	YES	
L0038725	0	0.22770E-06	544366.2	3754807.3	274.8	0.00	1.70	0.76	YES	
L0038726	0	0.22770E-06	544366.2	3754803.7	274.8	0.00	1.70	0.76	YES	
L0038727	0	0.22770E-06	544366.2	3754800.0	274.7	0.00	1.70	0.76	YES	
L0038728	0	0.22770E-06	544366.2	3754796.3	274.6	0.00	1.70	0.76	YES	
L0038729	0	0.22770E-06	544366.3	3754792.7	274.6	0.00	1.70	0.76	YES	
L0038730	0	0.22770E-06	544366.3	3754789.0	274.5	0.00	1.70	0.76	YES	
L0038731	0	0.22770E-06	544366.3	3754785.4	274.5	0.00	1.70	0.76	YES	
L0038732	0	0.22770E-06	544366.3	3754781.7	274.4	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0038733	0	0.22770E-06	544366.4	3754778.1	274.4	0.00	1.70	0.76	YES	
L0038734	0	0.22770E-06	544366.4	3754774.4	274.3	0.00	1.70	0.76	YES	
L0038735	0	0.22770E-06	544366.4	3754770.7	274.2	0.00	1.70	0.76	YES	
L0038736	0	0.22770E-06	544366.4	3754767.1	274.2	0.00	1.70	0.76	YES	
L0038737	0	0.22770E-06	544366.5	3754763.4	274.1	0.00	1.70	0.76	YES	
L0038738	0	0.22770E-06	544366.5	3754759.8	274.1	0.00	1.70	0.76	YES	
L0038739	0	0.22770E-06	544366.5	3754756.1	274.0	0.00	1.70	0.76	YES	
L0038740	0	0.22770E-06	544366.5	3754752.5	273.9	0.00	1.70	0.76	YES	
L0038741	0	0.22770E-06	544366.6	3754748.8	273.9	0.00	1.70	0.76	YES	
L0038742	0	0.22770E-06	544366.6	3754745.1	273.8	0.00	1.70	0.76	YES	
L0038743	0	0.22820E-06	543903.0	3755545.1	290.6	0.00	1.70	0.76	YES	
L0038744	0	0.22820E-06	543901.8	3755541.6	290.6	0.00	1.70	0.76	YES	
L0038745	0	0.22820E-06	543900.6	3755538.1	290.5	0.00	1.70	0.76	YES	
L0038746	0	0.22820E-06	543899.5	3755534.7	290.5	0.00	1.70	0.76	YES	
L0038747	0	0.22820E-06	543898.3	3755531.2	290.4	0.00	1.70	0.76	YES	
L0038748	0	0.22820E-06	543897.1	3755527.7	290.4	0.00	1.70	0.76	YES	
L0038749	0	0.22820E-06	543896.0	3755524.3	290.3	0.00	1.70	0.76	YES	
L0038750	0	0.22820E-06	543894.8	3755520.8	290.2	0.00	1.70	0.76	YES	
L0038751	0	0.22820E-06	543893.7	3755517.3	290.2	0.00	1.70	0.76	YES	
L0038752	0	0.22820E-06	543893.7	3755513.7	290.1	0.00	1.70	0.76	YES	

L0038753	0	0.22820E-06	543893.7	3755510.0	290.0	0.00	1.70	0.76	YES
L0038754	0	0.22820E-06	543893.7	3755506.4	289.9	0.00	1.70	0.76	YES
L0038755	0	0.22820E-06	543893.8	3755502.7	289.8	0.00	1.70	0.76	YES
L0038756	0	0.22820E-06	543893.8	3755499.1	289.8	0.00	1.70	0.76	YES
L0038757	0	0.22820E-06	543893.8	3755495.4	289.7	0.00	1.70	0.76	YES
L0038758	0	0.22820E-06	543893.8	3755491.7	289.6	0.00	1.70	0.76	YES
L0038759	0	0.22820E-06	543893.8	3755488.1	289.5	0.00	1.70	0.76	YES
L0038760	0	0.22820E-06	543893.8	3755484.4	289.4	0.00	1.70	0.76	YES
L0038761	0	0.22820E-06	543893.8	3755480.8	289.4	0.00	1.70	0.76	YES
L0038762	0	0.22820E-06	543893.9	3755477.1	289.3	0.00	1.70	0.76	YES
L0038763	0	0.22820E-06	543893.9	3755473.4	289.2	0.00	1.70	0.76	YES
L0038764	0	0.22820E-06	543893.9	3755469.8	289.1	0.00	1.70	0.76	YES
L0038765	0	0.22820E-06	543893.9	3755466.1	289.1	0.00	1.70	0.76	YES
L0038766	0	0.22820E-06	543893.9	3755462.5	289.0	0.00	1.70	0.76	YES
L0038767	0	0.22820E-06	543893.9	3755458.8	288.9	0.00	1.70	0.76	YES
L0038768	0	0.22820E-06	543894.0	3755455.2	288.8	0.00	1.70	0.76	YES
L0038769	0	0.22820E-06	543894.0	3755451.5	288.8	0.00	1.70	0.76	YES
L0038770	0	0.22820E-06	543894.0	3755447.8	288.7	0.00	1.70	0.76	YES
L0038771	0	0.22820E-06	543894.0	3755444.2	288.6	0.00	1.70	0.76	YES
L0038772	0	0.22820E-06	543894.0	3755440.5	288.5	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0038773	0	0.22820E-06	543894.0	3755436.9	288.4	0.00	1.70	0.76	YES	
L0038774	0	0.22820E-06	543894.0	3755433.2	288.4	0.00	1.70	0.76	YES	
L0038775	0	0.22820E-06	543894.1	3755429.6	288.3	0.00	1.70	0.76	YES	
L0038776	0	0.22820E-06	543894.1	3755425.9	288.2	0.00	1.70	0.76	YES	
L0038777	0	0.22820E-06	543894.1	3755422.2	288.1	0.00	1.70	0.76	YES	
L0038778	0	0.22820E-06	543894.1	3755418.6	288.1	0.00	1.70	0.76	YES	
L0038779	0	0.22820E-06	543894.1	3755414.9	288.0	0.00	1.70	0.76	YES	
L0038780	0	0.22820E-06	543894.1	3755411.3	287.9	0.00	1.70	0.76	YES	
L0038781	0	0.22820E-06	543894.2	3755407.6	287.8	0.00	1.70	0.76	YES	
L0038782	0	0.22820E-06	543894.2	3755404.0	287.8	0.00	1.70	0.76	YES	
L0038783	0	0.22820E-06	543894.2	3755400.3	287.7	0.00	1.70	0.76	YES	
L0038784	0	0.22820E-06	543894.2	3755396.6	287.6	0.00	1.70	0.76	YES	
L0038785	0	0.22820E-06	543894.2	3755393.0	287.5	0.00	1.70	0.76	YES	
L0038786	0	0.22820E-06	543894.2	3755389.3	287.5	0.00	1.70	0.76	YES	
L0038787	0	0.22820E-06	543894.2	3755385.7	287.4	0.00	1.70	0.76	YES	
L0038788	0	0.22820E-06	543894.3	3755382.0	287.3	0.00	1.70	0.76	YES	
L0038789	0	0.22820E-06	543894.3	3755378.4	287.3	0.00	1.70	0.76	YES	

L0038790	0	0.22820E-06	543894.3	3755374.7	287.2	0.00	1.70	0.76	YES	
L0038791	0	0.22820E-06	543894.3	3755371.0	287.1	0.00	1.70	0.76	YES	
L0038792	0	0.22820E-06	543894.3	3755367.4	287.1	0.00	1.70	0.76	YES	
L0038793	0	0.22820E-06	543894.3	3755363.7	287.0	0.00	1.70	0.76	YES	
L0038794	0	0.22820E-06	543894.4	3755360.1	287.0	0.00	1.70	0.76	YES	
L0038795	0	0.22820E-06	543894.4	3755356.4	286.9	0.00	1.70	0.76	YES	
L0038796	0	0.22820E-06	543894.4	3755352.8	286.9	0.00	1.70	0.76	YES	
L0038797	0	0.22820E-06	543894.4	3755349.1	286.8	0.00	1.70	0.76	YES	
L0038798	0	0.22820E-06	543894.4	3755345.4	286.8	0.00	1.70	0.76	YES	
L0038799	0	0.22820E-06	543894.4	3755341.8	286.7	0.00	1.70	0.76	YES	
L0038800	0	0.22820E-06	543894.5	3755338.1	286.7	0.00	1.70	0.76	YES	
L0038801	0	0.22820E-06	543894.5	3755334.5	286.6	0.00	1.70	0.76	YES	
L0038802	0	0.22820E-06	543894.5	3755330.8	286.5	0.00	1.70	0.76	YES	
L0038803	0	0.22820E-06	543894.5	3755327.1	286.5	0.00	1.70	0.76	YES	
L0038804	0	0.22820E-06	543894.5	3755323.5	286.4	0.00	1.70	0.76	YES	
L0038805	0	0.22820E-06	543894.5	3755319.8	286.4	0.00	1.70	0.76	YES	
L0038806	0	0.22820E-06	543894.3	3755316.2	286.3	0.00	1.70	0.76	YES	
L0038807	0	0.22820E-06	543894.7	3755312.6	286.2	0.00	1.70	0.76	YES	
L0038808	0	0.22820E-06	543896.4	3755309.4	286.2	0.00	1.70	0.76	YES	
L0038809	0	0.22820E-06	543898.1	3755306.2	286.1	0.00	1.70	0.76	YES	
L0038810	0	0.22820E-06	543899.8	3755302.9	286.1	0.00	1.70	0.76	YES	
L0038811	0	0.22820E-06	543901.5	3755299.7	286.0	0.00	1.70	0.76	YES	
L0038812	0	0.22820E-06	543903.2	3755296.5	285.9	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0038813	0	0.22820E-06	543904.9	3755293.2	285.9	0.00	1.70	0.76	YES	
L0038814	0	0.22820E-06	543906.6	3755290.0	285.8	0.00	1.70	0.76	YES	
L0038815	0	0.22820E-06	543908.3	3755286.7	285.7	0.00	1.70	0.76	YES	
L0038816	0	0.22820E-06	543910.0	3755283.5	285.7	0.00	1.70	0.76	YES	
L0038817	0	0.22820E-06	543911.7	3755280.3	285.6	0.00	1.70	0.76	YES	
L0038818	0	0.22820E-06	543913.4	3755277.0	285.6	0.00	1.70	0.76	YES	
L0038819	0	0.22820E-06	543915.1	3755273.8	285.5	0.00	1.70	0.76	YES	
L0038820	0	0.22820E-06	543916.8	3755270.5	285.4	0.00	1.70	0.76	YES	
L0038821	0	0.22820E-06	543918.5	3755267.3	285.4	0.00	1.70	0.76	YES	
L0038822	0	0.22820E-06	543920.2	3755264.1	285.3	0.00	1.70	0.76	YES	
L0038823	0	0.22820E-06	543921.9	3755260.8	285.3	0.00	1.70	0.76	YES	
L0038824	0	0.22820E-06	543923.6	3755257.6	285.2	0.00	1.70	0.76	YES	
L0038825	0	0.22820E-06	543925.3	3755254.4	285.2	0.00	1.70	0.76	YES	
L0038826	0	0.22820E-06	543927.0	3755251.1	285.1	0.00	1.70	0.76	YES	

L0038827	0	0.22820E-06	543928.7	3755247.9	285.1	0.00	1.70	0.76	YES	
L0038828	0	0.22820E-06	543930.4	3755244.6	285.0	0.00	1.70	0.76	YES	
L0038829	0	0.22820E-06	543932.1	3755241.4	284.9	0.00	1.70	0.76	YES	
L0038830	0	0.22820E-06	543933.8	3755238.2	284.9	0.00	1.70	0.76	YES	
L0038831	0	0.22820E-06	543935.5	3755234.9	284.8	0.00	1.70	0.76	YES	
L0038832	0	0.22820E-06	543937.2	3755231.7	284.8	0.00	1.70	0.76	YES	
L0038833	0	0.22820E-06	543938.9	3755228.5	284.7	0.00	1.70	0.76	YES	
L0038834	0	0.22820E-06	543940.6	3755225.2	284.6	0.00	1.70	0.76	YES	
L0038835	0	0.22820E-06	543942.3	3755222.0	284.6	0.00	1.70	0.76	YES	
L0038836	0	0.22820E-06	543944.0	3755218.7	284.5	0.00	1.70	0.76	YES	
L0038837	0	0.22820E-06	543945.7	3755215.5	284.4	0.00	1.70	0.76	YES	
L0038838	0	0.22820E-06	543947.4	3755212.3	284.4	0.00	1.70	0.76	YES	
L0038839	0	0.22820E-06	543949.2	3755209.0	284.3	0.00	1.70	0.76	YES	
L0038840	0	0.22820E-06	543951.0	3755205.9	284.2	0.00	1.70	0.76	YES	
L0038841	0	0.22820E-06	543952.8	3755202.7	284.1	0.00	1.70	0.76	YES	
L0038842	0	0.22820E-06	543954.6	3755199.5	284.0	0.00	1.70	0.76	YES	
L0038843	0	0.22820E-06	543956.4	3755196.3	283.9	0.00	1.70	0.76	YES	
L0038844	0	0.22820E-06	543958.2	3755193.2	283.8	0.00	1.70	0.76	YES	
L0038845	0	0.22820E-06	543960.1	3755190.0	283.7	0.00	1.70	0.76	YES	
L0038846	0	0.22820E-06	543961.9	3755186.8	283.6	0.00	1.70	0.76	YES	
L0038847	0	0.22820E-06	543963.7	3755183.6	283.5	0.00	1.70	0.76	YES	
L0038848	0	0.22820E-06	543965.5	3755180.4	283.4	0.00	1.70	0.76	YES	
L0038849	0	0.22820E-06	543967.3	3755177.3	283.3	0.00	1.70	0.76	YES	
L0038850	0	0.22820E-06	543969.1	3755174.1	283.2	0.00	1.70	0.76	YES	
L0038851	0	0.22820E-06	543970.9	3755170.9	283.2	0.00	1.70	0.76	YES	
L0038852	0	0.22820E-06	543972.7	3755167.7	283.1	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0038853	0	0.22820E-06	543974.5	3755164.6	283.0	0.00	1.70	0.76	YES	
L0038854	0	0.22820E-06	543976.3	3755161.4	282.9	0.00	1.70	0.76	YES	
L0038855	0	0.22820E-06	543978.2	3755158.2	282.8	0.00	1.70	0.76	YES	
L0038856	0	0.22820E-06	543980.0	3755155.0	282.7	0.00	1.70	0.76	YES	
L0038857	0	0.22820E-06	543981.8	3755151.8	282.6	0.00	1.70	0.76	YES	
L0038858	0	0.22820E-06	543983.6	3755148.7	282.4	0.00	1.70	0.76	YES	
L0038859	0	0.22820E-06	543985.4	3755145.5	282.3	0.00	1.70	0.76	YES	
L0038860	0	0.22820E-06	543987.2	3755142.3	282.2	0.00	1.70	0.76	YES	
L0038861	0	0.22820E-06	543989.0	3755139.1	282.1	0.00	1.70	0.76	YES	
L0038862	0	0.22820E-06	543990.8	3755135.9	281.9	0.00	1.70	0.76	YES	
L0038863	0	0.22820E-06	543992.6	3755132.8	281.9	0.00	1.70	0.76	YES	

L0038864	0	0.22820E-06	543994.4	3755129.6	281.8	0.00	1.70	0.76	YES	
L0038865	0	0.22820E-06	543996.3	3755126.4	281.7	0.00	1.70	0.76	YES	
L0038866	0	0.22820E-06	543998.1	3755123.2	281.7	0.00	1.70	0.76	YES	
L0038867	0	0.22820E-06	543999.9	3755120.1	281.7	0.00	1.70	0.76	YES	
L0038868	0	0.22820E-06	544001.7	3755116.9	281.6	0.00	1.70	0.76	YES	
L0038869	0	0.22820E-06	544003.5	3755113.7	281.6	0.00	1.70	0.76	YES	
L0038870	0	0.22820E-06	544005.3	3755110.5	281.6	0.00	1.70	0.76	YES	
L0038871	0	0.22820E-06	544007.1	3755107.3	281.5	0.00	1.70	0.76	YES	
L0038872	0	0.22820E-06	544008.9	3755104.2	281.5	0.00	1.70	0.76	YES	
L0038873	0	0.22820E-06	544010.7	3755101.0	281.5	0.00	1.70	0.76	YES	
L0038874	0	0.22820E-06	544012.6	3755097.8	281.4	0.00	1.70	0.76	YES	
L0038875	0	0.22820E-06	544015.6	3755096.8	281.4	0.00	1.70	0.76	YES	
L0038876	0	0.22820E-06	544019.3	3755096.9	281.4	0.00	1.70	0.76	YES	
L0038877	0	0.22820E-06	544023.0	3755096.9	281.5	0.00	1.70	0.76	YES	
L0038878	0	0.22820E-06	544026.6	3755097.0	281.5	0.00	1.70	0.76	YES	
L0038879	0	0.22820E-06	544030.3	3755097.0	281.5	0.00	1.70	0.76	YES	
L0038880	0	0.22820E-06	544033.9	3755097.1	281.5	0.00	1.70	0.76	YES	
L0038881	0	0.22820E-06	544037.6	3755097.1	281.5	0.00	1.70	0.76	YES	
L0038882	0	0.22820E-06	544041.2	3755097.2	281.5	0.00	1.70	0.76	YES	
L0038883	0	0.22820E-06	544044.9	3755097.3	281.5	0.00	1.70	0.76	YES	
L0038884	0	0.22820E-06	544048.6	3755097.3	281.5	0.00	1.70	0.76	YES	
L0038885	0	0.22820E-06	544052.2	3755097.4	281.5	0.00	1.70	0.76	YES	
L0038886	0	0.22820E-06	544055.9	3755097.4	281.5	0.00	1.70	0.76	YES	
L0038887	0	0.22820E-06	544059.5	3755097.5	281.5	0.00	1.70	0.76	YES	
L0038888	0	0.22820E-06	544063.2	3755097.5	281.5	0.00	1.70	0.76	YES	
L0038889	0	0.22820E-06	544066.8	3755097.6	281.5	0.00	1.70	0.76	YES	
L0038890	0	0.22820E-06	544070.5	3755097.6	281.5	0.00	1.70	0.76	YES	
L0038891	0	0.22820E-06	544074.2	3755097.7	281.5	0.00	1.70	0.76	YES	
L0038892	0	0.22820E-06	544077.8	3755097.7	281.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0038893	0	0.22820E-06	544081.5	3755097.8	281.5	0.00	1.70	0.76	YES	
L0038894	0	0.22820E-06	544085.1	3755097.8	281.5	0.00	1.70	0.76	YES	
L0038895	0	0.22820E-06	544088.8	3755097.9	281.5	0.00	1.70	0.76	YES	
L0038896	0	0.22820E-06	544092.4	3755097.9	281.5	0.00	1.70	0.76	YES	
L0038897	0	0.22820E-06	544095.1	3755097.0	281.5	0.00	1.70	0.76	YES	
L0038898	0	0.22820E-06	544095.1	3755093.3	281.4	0.00	1.70	0.76	YES	
L0038899	0	0.22820E-06	544095.1	3755089.7	281.4	0.00	1.70	0.76	YES	
L0038900	0	0.22820E-06	544095.1	3755086.0	281.3	0.00	1.70	0.76	YES	

L0038901	0	0.22820E-06	544095.1	3755082.3	281.3	0.00	1.70	0.76	YES	
L0038902	0	0.22820E-06	544095.1	3755078.7	281.2	0.00	1.70	0.76	YES	
L0038903	0	0.22820E-06	544095.1	3755075.0	281.1	0.00	1.70	0.76	YES	
L0038904	0	0.22820E-06	544095.1	3755071.4	281.1	0.00	1.70	0.76	YES	
L0038905	0	0.22820E-06	544095.1	3755067.7	281.0	0.00	1.70	0.76	YES	
L0038906	0	0.22820E-06	544095.1	3755064.1	280.9	0.00	1.70	0.76	YES	
L0038907	0	0.22820E-06	544095.0	3755060.4	280.9	0.00	1.70	0.76	YES	
L0038908	0	0.22820E-06	544095.0	3755056.7	280.8	0.00	1.70	0.76	YES	
L0038909	0	0.22820E-06	544095.0	3755053.1	280.7	0.00	1.70	0.76	YES	
L0038910	0	0.22820E-06	544095.0	3755049.4	280.7	0.00	1.70	0.76	YES	
L0038911	0	0.22820E-06	544095.0	3755045.8	280.6	0.00	1.70	0.76	YES	
L0038912	0	0.22820E-06	544095.0	3755042.1	280.5	0.00	1.70	0.76	YES	
L0038913	0	0.22820E-06	544095.0	3755038.5	280.4	0.00	1.70	0.76	YES	
L0038914	0	0.22820E-06	544095.0	3755034.8	280.4	0.00	1.70	0.76	YES	
L0038915	0	0.22820E-06	544095.0	3755031.1	280.3	0.00	1.70	0.76	YES	
L0038916	0	0.22820E-06	544095.0	3755027.5	280.2	0.00	1.70	0.76	YES	
L0038917	0	0.22820E-06	544095.0	3755023.8	280.1	0.00	1.70	0.76	YES	
L0038918	0	0.22820E-06	544095.0	3755020.2	280.1	0.00	1.70	0.76	YES	
L0038919	0	0.22820E-06	544095.0	3755016.5	280.0	0.00	1.70	0.76	YES	
L0038920	0	0.22820E-06	544095.0	3755012.9	279.9	0.00	1.70	0.76	YES	
L0038921	0	0.22820E-06	544095.0	3755009.2	279.8	0.00	1.70	0.76	YES	
L0038922	0	0.22820E-06	544095.0	3755005.5	279.8	0.00	1.70	0.76	YES	
L0038923	0	0.22820E-06	544095.0	3755001.9	279.7	0.00	1.70	0.76	YES	
L0038924	0	0.22820E-06	544095.0	3754998.2	279.6	0.00	1.70	0.76	YES	
L0038925	0	0.22820E-06	544094.9	3754994.6	279.6	0.00	1.70	0.76	YES	
L0038926	0	0.22820E-06	544094.9	3754990.9	279.5	0.00	1.70	0.76	YES	
L0038927	0	0.22820E-06	544094.9	3754987.3	279.4	0.00	1.70	0.76	YES	
L0038928	0	0.22820E-06	544094.9	3754983.6	279.3	0.00	1.70	0.76	YES	
L0038929	0	0.22820E-06	544094.9	3754979.9	279.2	0.00	1.70	0.76	YES	
L0038930	0	0.22820E-06	544094.9	3754976.3	279.2	0.00	1.70	0.76	YES	
L0038931	0	0.22820E-06	544094.9	3754972.6	279.1	0.00	1.70	0.76	YES	
L0038932	0	0.22820E-06	544094.9	3754969.0	279.1	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0038933	0	0.22820E-06	544094.9	3754965.3	279.0	0.00	1.70	0.76	YES	
L0038934	0	0.22820E-06	544094.9	3754961.6	278.9	0.00	1.70	0.76	YES	
L0038935	0	0.22820E-06	544094.9	3754958.0	278.9	0.00	1.70	0.76	YES	
L0038936	0	0.22820E-06	544094.9	3754954.3	278.8	0.00	1.70	0.76	YES	
L0038937	0	0.22820E-06	544094.9	3754950.7	278.7	0.00	1.70	0.76	YES	

L0038938	0	0.22820E-06	544094.9	3754947.0	278.7	0.00	1.70	0.76	YES	
L0038939	0	0.22820E-06	544094.9	3754943.4	278.6	0.00	1.70	0.76	YES	
L0038940	0	0.22820E-06	544094.9	3754939.7	278.6	0.00	1.70	0.76	YES	
L0038941	0	0.22820E-06	544094.9	3754936.0	278.5	0.00	1.70	0.76	YES	
L0038942	0	0.22820E-06	544094.9	3754932.4	278.4	0.00	1.70	0.76	YES	
L0038943	0	0.22820E-06	544094.8	3754928.7	278.4	0.00	1.70	0.76	YES	
L0038944	0	0.22820E-06	544094.8	3754925.1	278.3	0.00	1.70	0.76	YES	
L0038945	0	0.22820E-06	544094.8	3754921.4	278.2	0.00	1.70	0.76	YES	
L0038946	0	0.22820E-06	544094.8	3754917.8	278.2	0.00	1.70	0.76	YES	
L0038947	0	0.22820E-06	544094.8	3754914.1	278.1	0.00	1.70	0.76	YES	
L0038948	0	0.22820E-06	544094.8	3754910.4	278.1	0.00	1.70	0.76	YES	
L0038949	0	0.22820E-06	544094.8	3754906.8	278.0	0.00	1.70	0.76	YES	
L0038950	0	0.22820E-06	544094.8	3754903.1	277.9	0.00	1.70	0.76	YES	
L0038951	0	0.22820E-06	544094.8	3754899.5	277.9	0.00	1.70	0.76	YES	
L0038952	0	0.22820E-06	544094.8	3754895.8	277.8	0.00	1.70	0.76	YES	
L0038953	0	0.22820E-06	544094.8	3754892.2	277.7	0.00	1.70	0.76	YES	
L0038954	0	0.22820E-06	544094.8	3754888.5	277.6	0.00	1.70	0.76	YES	
L0038955	0	0.22820E-06	544094.8	3754884.8	277.6	0.00	1.70	0.76	YES	
L0038956	0	0.22820E-06	544094.8	3754881.2	277.5	0.00	1.70	0.76	YES	
L0038957	0	0.22820E-06	544094.8	3754877.5	277.4	0.00	1.70	0.76	YES	
L0038958	0	0.22820E-06	544094.8	3754873.9	277.4	0.00	1.70	0.76	YES	
L0038959	0	0.22820E-06	544094.8	3754870.2	277.3	0.00	1.70	0.76	YES	
L0038960	0	0.22820E-06	544094.8	3754866.6	277.3	0.00	1.70	0.76	YES	
L0038961	0	0.22820E-06	544094.7	3754862.9	277.2	0.00	1.70	0.76	YES	
L0038962	0	0.22820E-06	544094.7	3754859.2	277.2	0.00	1.70	0.76	YES	
L0038963	0	0.22820E-06	544094.7	3754855.6	277.1	0.00	1.70	0.76	YES	
L0038964	0	0.22820E-06	544094.7	3754851.9	277.0	0.00	1.70	0.76	YES	
L0038965	0	0.22820E-06	544094.7	3754848.3	277.0	0.00	1.70	0.76	YES	
L0038966	0	0.22820E-06	544094.7	3754844.6	276.9	0.00	1.70	0.76	YES	
L0038967	0	0.22820E-06	544094.7	3754840.9	276.8	0.00	1.70	0.76	YES	
L0038968	0	0.22820E-06	544094.7	3754837.3	276.8	0.00	1.70	0.76	YES	
L0038969	0	0.22820E-06	544094.7	3754833.6	276.7	0.00	1.70	0.76	YES	
L0038970	0	0.22820E-06	544094.7	3754830.0	276.6	0.00	1.70	0.76	YES	
L0038971	0	0.22820E-06	544094.7	3754826.3	276.6	0.00	1.70	0.76	YES	
L0038972	0	0.22820E-06	544094.7	3754822.7	276.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0038973	0	0.22820E-06	544094.7	3754819.0	276.4	0.00	1.70	0.76	YES	
L0038974	0	0.22820E-06	544094.7	3754815.3	276.4	0.00	1.70	0.76	YES	

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L0038975         0   0.22820E-06  544094.7 3754811.7   276.3     0.00     1.70     0.76     YES
L0038976         0   0.22820E-06  544094.7 3754808.0   276.3     0.00     1.70     0.76     YES
L0038977         0   0.22820E-06  544094.7 3754804.4   276.2     0.00     1.70     0.76     YES
L0038978         0   0.22820E-06  544094.7 3754800.7   276.1     0.00     1.70     0.76     YES
L0038979         0   0.22820E-06  544094.6 3754797.1   276.1     0.00     1.70     0.76     YES
L0038980         0   0.22820E-06  544094.6 3754793.4   276.0     0.00     1.70     0.76     YES
L0038981         0   0.22820E-06  544094.6 3754789.7   276.0     0.00     1.70     0.76     YES
L0038982         0   0.22820E-06  544094.6 3754786.1   275.9     0.00     1.70     0.76     YES
L0038983         0   0.22820E-06  544094.6 3754782.4   275.8     0.00     1.70     0.76     YES
L0038984         0   0.22820E-06  544094.6 3754778.8   275.8     0.00     1.70     0.76     YES
L0038985         0   0.22820E-06  544094.6 3754775.1   275.7     0.00     1.70     0.76     YES
L0038986         0   0.22820E-06  544094.6 3754771.5   275.7     0.00     1.70     0.76     YES
L0038987         0   0.22820E-06  544094.6 3754767.8   275.6     0.00     1.70     0.76     YES
L0038988         0   0.22820E-06  544094.6 3754764.1   275.5     0.00     1.70     0.76     YES
L0038989         0   0.22820E-06  544094.6 3754760.5   275.5     0.00     1.70     0.76     YES
L0038990         0   0.22820E-06  544094.6 3754756.8   275.4     0.00     1.70     0.76     YES
L0038991         0   0.22820E-06  544094.6 3754753.2   275.4     0.00     1.70     0.76     YES
L0038992         0   0.22820E-06  544094.6 3754749.5   275.3     0.00     1.70     0.76     YES
L0038993         0   0.22820E-06  544094.6 3754745.9   275.2     0.00     1.70     0.76     YES
L0038994         0   0.22820E-06  544094.6 3754742.2   275.2     0.00     1.70     0.76     YES
L0038995         0   0.14130E-06  543688.1 3755627.4   293.9     0.00     1.70     0.76     YES
L0038996         0   0.14130E-06  543688.0 3755623.7   293.8     0.00     1.70     0.76     YES
L0038997         0   0.14130E-06  543688.0 3755620.1   293.7     0.00     1.70     0.76     YES
L0038998         0   0.14130E-06  543688.0 3755616.4   293.7     0.00     1.70     0.76     YES
L0038999         0   0.14130E-06  543687.9 3755612.7   293.6     0.00     1.70     0.76     YES
L0039000         0   0.14130E-06  543687.9 3755609.1   293.5     0.00     1.70     0.76     YES
L0039001         0   0.14130E-06  543687.9 3755605.4   293.4     0.00     1.70     0.76     YES
L0039002         0   0.14130E-06  543687.8 3755601.8   293.4     0.00     1.70     0.76     YES
L0039003         0   0.14130E-06  543687.8 3755598.1   293.3     0.00     1.70     0.76     YES
L0039004         0   0.14130E-06  543687.7 3755594.5   293.2     0.00     1.70     0.76     YES
L0039005         0   0.14130E-06  543687.7 3755590.8   293.1     0.00     1.70     0.76     YES
L0039006         0   0.14130E-06  543687.7 3755587.1   293.1     0.00     1.70     0.76     YES
L0039007         0   0.14130E-06  543687.6 3755583.5   293.0     0.00     1.70     0.76     YES
L0039008         0   0.14130E-06  543687.6 3755579.8   292.9     0.00     1.70     0.76     YES
L0039009         0   0.14130E-06  543687.6 3755576.2   292.9     0.00     1.70     0.76     YES
L0039010         0   0.14130E-06  543687.5 3755572.5   292.8     0.00     1.70     0.76     YES
L0039011         0   0.14130E-06  543687.5 3755568.9   292.7     0.00     1.70     0.76     YES
L0039012         0   0.14130E-06  543687.5 3755565.2   292.6     0.00     1.70     0.76     YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY

L0039013	0	0.14130E-06	543687.4	3755561.5	292.6	0.00	1.70	0.76	YES
L0039014	0	0.14130E-06	543687.4	3755557.9	292.5	0.00	1.70	0.76	YES
L0039015	0	0.14130E-06	543687.3	3755554.2	292.4	0.00	1.70	0.76	YES
L0039016	0	0.14130E-06	543687.3	3755550.6	292.4	0.00	1.70	0.76	YES
L0039017	0	0.14130E-06	543687.3	3755546.9	292.3	0.00	1.70	0.76	YES
L0039018	0	0.14130E-06	543687.2	3755543.3	292.2	0.00	1.70	0.76	YES
L0039019	0	0.14130E-06	543687.2	3755539.6	292.2	0.00	1.70	0.76	YES
L0039020	0	0.14130E-06	543687.2	3755535.9	292.1	0.00	1.70	0.76	YES
L0039021	0	0.14130E-06	543687.1	3755532.3	292.1	0.00	1.70	0.76	YES
L0039022	0	0.14130E-06	543687.1	3755528.6	292.0	0.00	1.70	0.76	YES
L0039023	0	0.14130E-06	543687.1	3755525.0	291.9	0.00	1.70	0.76	YES
L0039024	0	0.14130E-06	543687.0	3755521.3	291.9	0.00	1.70	0.76	YES
L0039025	0	0.14130E-06	543687.0	3755517.6	291.8	0.00	1.70	0.76	YES
L0039026	0	0.14130E-06	543687.0	3755514.0	291.7	0.00	1.70	0.76	YES
L0039027	0	0.14130E-06	543686.9	3755510.3	291.7	0.00	1.70	0.76	YES
L0039028	0	0.14130E-06	543686.9	3755506.7	291.6	0.00	1.70	0.76	YES
L0039029	0	0.14130E-06	543686.8	3755503.0	291.6	0.00	1.70	0.76	YES
L0039030	0	0.14130E-06	543686.8	3755499.4	291.5	0.00	1.70	0.76	YES
L0039031	0	0.14130E-06	543686.8	3755495.7	291.4	0.00	1.70	0.76	YES
L0039032	0	0.14130E-06	543686.7	3755492.0	291.4	0.00	1.70	0.76	YES
L0039033	0	0.14130E-06	543686.7	3755488.4	291.3	0.00	1.70	0.76	YES
L0039034	0	0.14130E-06	543686.7	3755484.7	291.2	0.00	1.70	0.76	YES
L0039035	0	0.14130E-06	543686.6	3755481.1	291.2	0.00	1.70	0.76	YES
L0039036	0	0.14130E-06	543686.6	3755477.4	291.1	0.00	1.70	0.76	YES
L0039037	0	0.14130E-06	543686.6	3755473.8	291.1	0.00	1.70	0.76	YES
L0039038	0	0.14130E-06	543686.5	3755470.1	291.0	0.00	1.70	0.76	YES
L0039039	0	0.14130E-06	543686.5	3755466.4	290.9	0.00	1.70	0.76	YES
L0039040	0	0.14130E-06	543686.4	3755462.8	290.9	0.00	1.70	0.76	YES
L0039041	0	0.14130E-06	543686.4	3755459.1	290.8	0.00	1.70	0.76	YES
L0039042	0	0.14130E-06	543686.4	3755455.5	290.7	0.00	1.70	0.76	YES
L0039043	0	0.14130E-06	543686.3	3755451.8	290.7	0.00	1.70	0.76	YES
L0039044	0	0.14130E-06	543686.3	3755448.2	290.6	0.00	1.70	0.76	YES
L0039045	0	0.14130E-06	543686.3	3755444.5	290.5	0.00	1.70	0.76	YES
L0039046	0	0.14130E-06	543686.2	3755440.8	290.4	0.00	1.70	0.76	YES
L0039047	0	0.14130E-06	543686.2	3755437.2	290.4	0.00	1.70	0.76	YES
L0039048	0	0.14130E-06	543686.2	3755433.5	290.3	0.00	1.70	0.76	YES
L0039049	0	0.14130E-06	543686.1	3755429.9	290.2	0.00	1.70	0.76	YES
L0039050	0	0.14130E-06	543686.1	3755426.2	290.2	0.00	1.70	0.76	YES
L0039051	0	0.14130E-06	543686.1	3755422.6	290.1	0.00	1.70	0.76	YES
L0039052	0	0.14130E-06	543686.0	3755418.9	290.0	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER	EMISSION RATE	BASE	RELEASE	INIT.	INIT.	URBAN	EMISSION RATE

SOURCE ID	PART. CATS.	(GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE	SCALAR VARY BY
L0039053	0	0.14130E-06	543686.0	3755415.2	290.0	0.00	1.70	0.76	YES	
L0039054	0	0.14130E-06	543685.9	3755411.6	289.9	0.00	1.70	0.76	YES	
L0039055	0	0.14130E-06	543685.9	3755407.9	289.8	0.00	1.70	0.76	YES	
L0039056	0	0.14130E-06	543685.9	3755404.3	289.8	0.00	1.70	0.76	YES	
L0039057	0	0.14130E-06	543685.8	3755400.6	289.7	0.00	1.70	0.76	YES	
L0039058	0	0.14130E-06	543685.8	3755397.0	289.6	0.00	1.70	0.76	YES	
L0039059	0	0.14130E-06	543685.8	3755393.3	289.6	0.00	1.70	0.76	YES	
L0039060	0	0.14130E-06	543685.7	3755389.6	289.5	0.00	1.70	0.76	YES	
L0039061	0	0.14130E-06	543685.7	3755386.0	289.5	0.00	1.70	0.76	YES	
L0039062	0	0.14130E-06	543685.7	3755382.3	289.4	0.00	1.70	0.76	YES	
L0039063	0	0.14130E-06	543685.6	3755378.7	289.3	0.00	1.70	0.76	YES	
L0039064	0	0.14130E-06	543685.6	3755375.0	289.3	0.00	1.70	0.76	YES	
L0039065	0	0.14130E-06	543685.5	3755371.4	289.2	0.00	1.70	0.76	YES	
L0039066	0	0.14130E-06	543685.5	3755367.7	289.2	0.00	1.70	0.76	YES	
L0039067	0	0.14130E-06	543685.5	3755364.0	289.1	0.00	1.70	0.76	YES	
L0039068	0	0.14130E-06	543685.4	3755360.4	289.0	0.00	1.70	0.76	YES	
L0039069	0	0.14130E-06	543685.4	3755356.7	288.9	0.00	1.70	0.76	YES	
L0039070	0	0.14130E-06	543685.4	3755353.1	288.9	0.00	1.70	0.76	YES	
L0039071	0	0.14130E-06	543685.3	3755349.4	288.8	0.00	1.70	0.76	YES	
L0039072	0	0.14130E-06	543685.3	3755345.8	288.7	0.00	1.70	0.76	YES	
L0039073	0	0.14130E-06	543685.3	3755342.1	288.7	0.00	1.70	0.76	YES	
L0039074	0	0.14130E-06	543685.2	3755338.4	288.6	0.00	1.70	0.76	YES	
L0039075	0	0.14130E-06	543685.2	3755334.8	288.6	0.00	1.70	0.76	YES	
L0039076	0	0.14130E-06	543685.1	3755331.1	288.5	0.00	1.70	0.76	YES	
L0039077	0	0.14130E-06	543685.1	3755327.5	288.4	0.00	1.70	0.76	YES	
L0039078	0	0.14130E-06	543685.1	3755323.8	288.4	0.00	1.70	0.76	YES	
L0039079	0	0.14130E-06	543685.0	3755320.1	288.3	0.00	1.70	0.76	YES	
L0039080	0	0.14130E-06	543685.0	3755316.5	288.3	0.00	1.70	0.76	YES	
L0039081	0	0.14130E-06	543685.0	3755312.8	288.2	0.00	1.70	0.76	YES	
L0039082	0	0.14130E-06	543684.9	3755309.2	288.2	0.00	1.70	0.76	YES	
L0039083	0	0.14130E-06	543684.9	3755305.5	288.1	0.00	1.70	0.76	YES	
L0039084	0	0.14130E-06	543684.9	3755301.9	288.0	0.00	1.70	0.76	YES	
L0039085	0	0.14130E-06	543684.8	3755298.2	288.0	0.00	1.70	0.76	YES	
L0039086	0	0.14130E-06	543684.8	3755294.5	287.9	0.00	1.70	0.76	YES	
L0039087	0	0.14130E-06	543684.8	3755290.9	287.8	0.00	1.70	0.76	YES	
L0039088	0	0.14130E-06	543684.7	3755287.2	287.8	0.00	1.70	0.76	YES	
L0039089	0	0.14130E-06	543684.7	3755283.6	287.7	0.00	1.70	0.76	YES	
L0039090	0	0.14130E-06	543684.6	3755279.9	287.6	0.00	1.70	0.76	YES	
L0039091	0	0.14130E-06	543684.6	3755276.3	287.6	0.00	1.70	0.76	YES	
L0039092	0	0.14130E-06	543684.6	3755272.6	287.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0039093	0	0.14130E-06	543684.5	3755268.9	287.4	0.00	1.70	0.76	YES	
L0039094	0	0.14130E-06	543684.5	3755265.3	287.4	0.00	1.70	0.76	YES	
L0039095	0	0.14130E-06	543684.5	3755261.6	287.3	0.00	1.70	0.76	YES	
L0039096	0	0.14130E-06	543684.4	3755258.0	287.3	0.00	1.70	0.76	YES	
L0039097	0	0.14130E-06	543684.4	3755254.3	287.2	0.00	1.70	0.76	YES	
L0039098	0	0.14130E-06	543684.4	3755250.7	287.2	0.00	1.70	0.76	YES	
L0039099	0	0.14130E-06	543684.3	3755247.0	287.1	0.00	1.70	0.76	YES	
L0039100	0	0.14130E-06	543684.3	3755243.3	287.0	0.00	1.70	0.76	YES	
L0039101	0	0.14130E-06	543684.2	3755239.7	286.9	0.00	1.70	0.76	YES	
L0039102	0	0.14130E-06	543684.2	3755236.0	286.9	0.00	1.70	0.76	YES	
L0039103	0	0.14130E-06	543684.2	3755232.4	286.8	0.00	1.70	0.76	YES	
L0039104	0	0.14130E-06	543684.1	3755228.7	286.7	0.00	1.70	0.76	YES	
L0039105	0	0.14130E-06	543684.1	3755225.1	286.6	0.00	1.70	0.76	YES	
L0039106	0	0.14130E-06	543684.1	3755221.4	286.6	0.00	1.70	0.76	YES	
L0039107	0	0.14130E-06	543684.0	3755217.7	286.5	0.00	1.70	0.76	YES	
L0039108	0	0.14130E-06	543684.0	3755214.1	286.4	0.00	1.70	0.76	YES	
L0039109	0	0.14130E-06	543684.0	3755210.4	286.4	0.00	1.70	0.76	YES	
L0039110	0	0.14130E-06	543683.9	3755206.8	286.3	0.00	1.70	0.76	YES	
L0039111	0	0.14130E-06	543683.9	3755203.1	286.3	0.00	1.70	0.76	YES	
L0039112	0	0.14130E-06	543683.8	3755199.5	286.2	0.00	1.70	0.76	YES	
L0039113	0	0.14130E-06	543683.8	3755195.8	286.1	0.00	1.70	0.76	YES	
L0039114	0	0.14130E-06	543683.8	3755192.1	286.1	0.00	1.70	0.76	YES	
L0039115	0	0.14130E-06	543683.7	3755188.5	286.0	0.00	1.70	0.76	YES	
L0039116	0	0.14130E-06	543683.7	3755184.8	285.9	0.00	1.70	0.76	YES	
L0039117	0	0.14130E-06	543683.7	3755181.2	285.9	0.00	1.70	0.76	YES	
L0039118	0	0.14130E-06	543683.6	3755177.5	285.8	0.00	1.70	0.76	YES	
L0039119	0	0.14130E-06	543683.6	3755173.9	285.7	0.00	1.70	0.76	YES	
L0039120	0	0.14130E-06	543683.6	3755170.2	285.7	0.00	1.70	0.76	YES	
L0039121	0	0.14130E-06	543683.5	3755166.5	285.6	0.00	1.70	0.76	YES	
L0039122	0	0.14130E-06	543683.5	3755162.9	285.5	0.00	1.70	0.76	YES	
L0039123	0	0.14130E-06	543683.5	3755159.2	285.4	0.00	1.70	0.76	YES	
L0039124	0	0.14130E-06	543683.4	3755155.6	285.4	0.00	1.70	0.76	YES	
L0039125	0	0.14130E-06	543683.4	3755151.9	285.3	0.00	1.70	0.76	YES	
L0039126	0	0.14130E-06	543683.3	3755148.2	285.2	0.00	1.70	0.76	YES	
L0039127	0	0.14130E-06	543683.3	3755144.6	285.1	0.00	1.70	0.76	YES	
L0039128	0	0.14130E-06	543683.3	3755140.9	285.1	0.00	1.70	0.76	YES	
L0039129	0	0.14130E-06	543683.2	3755137.3	285.0	0.00	1.70	0.76	YES	
L0039130	0	0.14130E-06	543683.2	3755133.6	284.9	0.00	1.70	0.76	YES	
L0039131	0	0.14130E-06	543683.2	3755130.0	284.8	0.00	1.70	0.76	YES	
L0039132	0	0.14130E-06	543683.1	3755126.3	284.8	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0039133	0	0.14130E-06	543683.1	3755122.6	284.7	0.00	1.70	0.76	YES	
L0039134	0	0.14130E-06	543683.1	3755119.0	284.6	0.00	1.70	0.76	YES	
L0039135	0	0.14130E-06	543683.0	3755115.3	284.6	0.00	1.70	0.76	YES	
L0039136	0	0.14130E-06	543683.0	3755111.7	284.5	0.00	1.70	0.76	YES	
L0039137	0	0.14130E-06	543682.9	3755108.0	284.4	0.00	1.70	0.76	YES	
L0039138	0	0.14130E-06	543682.9	3755104.4	284.3	0.00	1.70	0.76	YES	
L0039139	0	0.14130E-06	543682.9	3755100.7	284.2	0.00	1.70	0.76	YES	
L0039140	0	0.14130E-06	543682.8	3755097.0	284.2	0.00	1.70	0.76	YES	
L0039141	0	0.14130E-06	543682.8	3755093.4	284.1	0.00	1.70	0.76	YES	
L0039142	0	0.14130E-06	543682.8	3755089.7	284.0	0.00	1.70	0.76	YES	
L0039143	0	0.14130E-06	543682.7	3755086.1	284.0	0.00	1.70	0.76	YES	
L0039144	0	0.14130E-06	543682.7	3755082.4	283.9	0.00	1.70	0.76	YES	
L0039145	0	0.14130E-06	543682.7	3755078.8	283.8	0.00	1.70	0.76	YES	
L0039146	0	0.14130E-06	543682.6	3755075.1	283.7	0.00	1.70	0.76	YES	
L0039147	0	0.14130E-06	543682.6	3755071.4	283.7	0.00	1.70	0.76	YES	
L0039148	0	0.14130E-06	543682.5	3755067.8	283.6	0.00	1.70	0.76	YES	
L0039149	0	0.14130E-06	543682.5	3755064.1	283.5	0.00	1.70	0.76	YES	
L0039150	0	0.14130E-06	543682.5	3755060.5	283.5	0.00	1.70	0.76	YES	
L0039151	0	0.14130E-06	543682.4	3755056.8	283.4	0.00	1.70	0.76	YES	
L0039152	0	0.14130E-06	543682.4	3755053.2	283.3	0.00	1.70	0.76	YES	
L0039153	0	0.14130E-06	543682.4	3755049.5	283.2	0.00	1.70	0.76	YES	
L0039154	0	0.14130E-06	543682.3	3755045.8	283.2	0.00	1.70	0.76	YES	
L0039155	0	0.14130E-06	543682.3	3755042.2	283.1	0.00	1.70	0.76	YES	
L0039156	0	0.14130E-06	543682.3	3755038.5	283.0	0.00	1.70	0.76	YES	
L0039157	0	0.14130E-06	543682.2	3755034.9	283.0	0.00	1.70	0.76	YES	
L0039158	0	0.14130E-06	543682.2	3755031.2	282.9	0.00	1.70	0.76	YES	
L0039159	0	0.14130E-06	543682.2	3755027.6	282.9	0.00	1.70	0.76	YES	
L0039160	0	0.14130E-06	543682.1	3755023.9	282.8	0.00	1.70	0.76	YES	
L0039161	0	0.14130E-06	543682.1	3755020.2	282.8	0.00	1.70	0.76	YES	
L0039162	0	0.14130E-06	543682.0	3755016.6	282.7	0.00	1.70	0.76	YES	
L0039163	0	0.14130E-06	543682.0	3755012.9	282.7	0.00	1.70	0.76	YES	
L0039164	0	0.14130E-06	543682.0	3755009.3	282.6	0.00	1.70	0.76	YES	
L0039165	0	0.14130E-06	543681.9	3755005.6	282.6	0.00	1.70	0.76	YES	
L0039166	0	0.14130E-06	543681.9	3755002.0	282.5	0.00	1.70	0.76	YES	
L0039167	0	0.14130E-06	543681.9	3754998.3	282.4	0.00	1.70	0.76	YES	
L0039168	0	0.14130E-06	543681.8	3754994.6	282.4	0.00	1.70	0.76	YES	
L0039169	0	0.14130E-06	543681.8	3754991.0	282.3	0.00	1.70	0.76	YES	
L0039170	0	0.14130E-06	543681.8	3754987.3	282.3	0.00	1.70	0.76	YES	
L0039171	0	0.14130E-06	543681.7	3754983.7	282.2	0.00	1.70	0.76	YES	
L0039172	0	0.14130E-06	543681.7	3754980.0	282.2	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0039173	0	0.14130E-06	543681.6	3754976.4	282.1	0.00	1.70	0.76	YES	
L0039174	0	0.14130E-06	543681.6	3754972.7	282.0	0.00	1.70	0.76	YES	
L0039175	0	0.14130E-06	543681.6	3754969.0	282.0	0.00	1.70	0.76	YES	
L0039176	0	0.14130E-06	543681.5	3754965.4	281.9	0.00	1.70	0.76	YES	
L0039177	0	0.14130E-06	543681.5	3754961.7	281.9	0.00	1.70	0.76	YES	
L0039178	0	0.14130E-06	543681.5	3754958.1	281.8	0.00	1.70	0.76	YES	
L0039179	0	0.14130E-06	543681.4	3754954.4	281.8	0.00	1.70	0.76	YES	
L0039180	0	0.14130E-06	543681.4	3754950.7	281.7	0.00	1.70	0.76	YES	
L0039181	0	0.14130E-06	543681.4	3754947.1	281.7	0.00	1.70	0.76	YES	
L0039182	0	0.14130E-06	543681.3	3754943.4	281.6	0.00	1.70	0.76	YES	
L0039183	0	0.14130E-06	543681.3	3754939.8	281.6	0.00	1.70	0.76	YES	
L0039184	0	0.14130E-06	543681.2	3754936.1	281.5	0.00	1.70	0.76	YES	
L0039185	0	0.14130E-06	543681.2	3754932.5	281.4	0.00	1.70	0.76	YES	
L0039186	0	0.14130E-06	543681.2	3754928.8	281.4	0.00	1.70	0.76	YES	
L0039187	0	0.14130E-06	543681.1	3754925.1	281.3	0.00	1.70	0.76	YES	
L0039188	0	0.14130E-06	543681.1	3754921.5	281.3	0.00	1.70	0.76	YES	
L0039189	0	0.14130E-06	543681.1	3754917.8	281.2	0.00	1.70	0.76	YES	
L0039190	0	0.14130E-06	543681.0	3754914.2	281.1	0.00	1.70	0.76	YES	
L0039191	0	0.14130E-06	543681.0	3754910.5	281.1	0.00	1.70	0.76	YES	
L0039192	0	0.14130E-06	543681.0	3754906.9	281.0	0.00	1.70	0.76	YES	
L0039193	0	0.14130E-06	543680.9	3754903.2	280.9	0.00	1.70	0.76	YES	
L0039194	0	0.14130E-06	543680.9	3754899.5	280.9	0.00	1.70	0.76	YES	
L0039195	0	0.14130E-06	543680.9	3754895.9	280.8	0.00	1.70	0.76	YES	
L0039196	0	0.14130E-06	543680.8	3754892.2	280.7	0.00	1.70	0.76	YES	
L0039197	0	0.14130E-06	543680.8	3754888.6	280.6	0.00	1.70	0.76	YES	
L0039198	0	0.14130E-06	543680.7	3754884.9	280.6	0.00	1.70	0.76	YES	
L0039199	0	0.14130E-06	543680.7	3754881.3	280.5	0.00	1.70	0.76	YES	
L0039200	0	0.14130E-06	543680.7	3754877.6	280.4	0.00	1.70	0.76	YES	
L0039201	0	0.14130E-06	543680.6	3754873.9	280.4	0.00	1.70	0.76	YES	
L0039202	0	0.14130E-06	543680.6	3754870.3	280.3	0.00	1.70	0.76	YES	
L0039203	0	0.14130E-06	543680.6	3754866.6	280.2	0.00	1.70	0.76	YES	
L0039204	0	0.14130E-06	543680.5	3754863.0	280.1	0.00	1.70	0.76	YES	
L0039205	0	0.14130E-06	543680.5	3754859.3	280.1	0.00	1.70	0.76	YES	
L0039206	0	0.14130E-06	543680.5	3754855.7	280.0	0.00	1.70	0.76	YES	
L0039207	0	0.14130E-06	543680.4	3754852.0	279.9	0.00	1.70	0.76	YES	
L0039208	0	0.14130E-06	543680.4	3754848.3	279.8	0.00	1.70	0.76	YES	
L0039209	0	0.14130E-06	543680.3	3754844.7	279.8	0.00	1.70	0.76	YES	
L0039210	0	0.14130E-06	543680.3	3754841.0	279.7	0.00	1.70	0.76	YES	

L0039211	0	0.14130E-06	543680.3	3754837.4	279.6	0.00	1.70	0.76	YES
L0039212	0	0.14130E-06	543680.2	3754833.7	279.5	0.00	1.70	0.76	YES

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*** VOLUME SOURCE DATA ***

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L0039213	0	0.14130E-06	543680.2	3754830.1	279.4	0.00	1.70	0.76	YES	
L0039214	0	0.14130E-06	543680.2	3754826.4	279.4	0.00	1.70	0.76	YES	
L0039215	0	0.14130E-06	543680.1	3754822.7	279.3	0.00	1.70	0.76	YES	
L0039216	0	0.14130E-06	543680.1	3754819.1	279.2	0.00	1.70	0.76	YES	
L0039217	0	0.14130E-06	543680.1	3754815.4	279.1	0.00	1.70	0.76	YES	
L0039218	0	0.14130E-06	543680.0	3754811.8	279.0	0.00	1.70	0.76	YES	
L0039219	0	0.14130E-06	543680.0	3754808.1	279.0	0.00	1.70	0.76	YES	
L0039220	0	0.14130E-06	543679.9	3754804.5	278.9	0.00	1.70	0.76	YES	
L0039221	0	0.14130E-06	543679.9	3754800.8	278.8	0.00	1.70	0.76	YES	
L0039222	0	0.14130E-06	543679.9	3754797.1	278.7	0.00	1.70	0.76	YES	
L0039223	0	0.14130E-06	543679.8	3754793.5	278.7	0.00	1.70	0.76	YES	
L0039224	0	0.14130E-06	543679.8	3754789.8	278.6	0.00	1.70	0.76	YES	
L0039225	0	0.14130E-06	543679.8	3754786.2	278.5	0.00	1.70	0.76	YES	
L0039226	0	0.14130E-06	543679.7	3754782.5	278.4	0.00	1.70	0.76	YES	
L0039227	0	0.14130E-06	543679.7	3754778.9	278.4	0.00	1.70	0.76	YES	
L0039228	0	0.14130E-06	543679.7	3754775.2	278.3	0.00	1.70	0.76	YES	
L0039229	0	0.14130E-06	543679.6	3754771.5	278.2	0.00	1.70	0.76	YES	
L0039230	0	0.14130E-06	543679.6	3754767.9	278.2	0.00	1.70	0.76	YES	
L0039231	0	0.14130E-06	543679.6	3754764.2	278.1	0.00	1.70	0.76	YES	
L0039232	0	0.14130E-06	543679.5	3754760.6	278.0	0.00	1.70	0.76	YES	
L0039233	0	0.14130E-06	543679.5	3754756.9	277.9	0.00	1.70	0.76	YES	
L0039234	0	0.14130E-06	543679.4	3754753.2	277.9	0.00	1.70	0.76	YES	
L0039235	0	0.14130E-06	543679.4	3754749.6	277.8	0.00	1.70	0.76	YES	
L0039236	0	0.14130E-06	543679.4	3754745.9	277.7	0.00	1.70	0.76	YES	
L0039237	0	0.14130E-06	543679.3	3754742.3	277.6	0.00	1.70	0.76	YES	
L0039238	0	0.14130E-06	543679.3	3754738.6	277.6	0.00	1.70	0.76	YES	
L0039239	0	0.14130E-06	543679.3	3754735.0	277.5	0.00	1.70	0.76	YES	
L0039240	0	0.14130E-06	543679.2	3754731.3	277.4	0.00	1.70	0.76	YES	
L0039241	0	0.14130E-06	543679.2	3754727.6	277.3	0.00	1.70	0.76	YES	
L0039242	0	0.14130E-06	543679.2	3754724.0	277.3	0.00	1.70	0.76	YES	
L0039243	0	0.14130E-06	543679.1	3754720.3	277.2	0.00	1.70	0.76	YES	
L0039244	0	0.14130E-06	543679.1	3754716.7	277.1	0.00	1.70	0.76	YES	
L0039245	0	0.14130E-06	543679.0	3754713.0	277.1	0.00	1.70	0.76	YES	
L0039246	0	0.14130E-06	543679.0	3754709.4	277.0	0.00	1.70	0.76	YES	
L0039247	0	0.14130E-06	543679.0	3754705.7	276.9	0.00	1.70	0.76	YES	

L0039248	0	0.14130E-06	543678.9	3754702.0	276.8	0.00	1.70	0.76	YES	
L0039249	0	0.14130E-06	543678.9	3754698.4	276.8	0.00	1.70	0.76	YES	
L0039250	0	0.14130E-06	543678.9	3754694.7	276.7	0.00	1.70	0.76	YES	
L0039251	0	0.14130E-06	543678.8	3754691.1	276.6	0.00	1.70	0.76	YES	
L0039252	0	0.14130E-06	543678.8	3754687.4	276.6	0.00	1.70	0.76	YES	

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*** VOLUME SOURCE DATA ***

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L0039253	0	0.14130E-06	543678.8	3754683.8	276.5	0.00	1.70	0.76	YES	
L0039254	0	0.14130E-06	543678.7	3754680.1	276.4	0.00	1.70	0.76	YES	
L0039255	0	0.14130E-06	543678.7	3754676.4	276.4	0.00	1.70	0.76	YES	
L0039256	0	0.14130E-06	543678.7	3754672.8	276.3	0.00	1.70	0.76	YES	
L0039257	0	0.14130E-06	543678.6	3754669.1	276.2	0.00	1.70	0.76	YES	
L0039258	0	0.14130E-06	543678.6	3754665.5	276.2	0.00	1.70	0.76	YES	
L0039259	0	0.14130E-06	543678.5	3754661.8	276.1	0.00	1.70	0.76	YES	
L0039260	0	0.14130E-06	543678.5	3754658.2	276.1	0.00	1.70	0.76	YES	
L0039261	0	0.14130E-06	543678.5	3754654.5	276.0	0.00	1.70	0.76	YES	
L0039262	0	0.14130E-06	543678.4	3754650.8	275.9	0.00	1.70	0.76	YES	
L0039263	0	0.14130E-06	543678.4	3754647.2	275.9	0.00	1.70	0.76	YES	
L0039264	0	0.14130E-06	543678.4	3754643.5	275.8	0.00	1.70	0.76	YES	
L0039265	0	0.14130E-06	543678.3	3754639.9	275.8	0.00	1.70	0.76	YES	
L0039266	0	0.14130E-06	543678.3	3754636.2	275.7	0.00	1.70	0.76	YES	
L0039267	0	0.14130E-06	543678.3	3754632.6	275.7	0.00	1.70	0.76	YES	
L0039268	0	0.14130E-06	543678.2	3754628.9	275.6	0.00	1.70	0.76	YES	
L0039269	0	0.14130E-06	543678.2	3754625.2	275.5	0.00	1.70	0.76	YES	
L0039270	0	0.14130E-06	543678.1	3754621.6	275.5	0.00	1.70	0.76	YES	
L0039271	0	0.14130E-06	543678.1	3754617.9	275.4	0.00	1.70	0.76	YES	
L0039272	0	0.14130E-06	543678.1	3754614.3	275.3	0.00	1.70	0.76	YES	
L0039273	0	0.14130E-06	543678.0	3754610.6	275.3	0.00	1.70	0.76	YES	
L0039274	0	0.14130E-06	543678.0	3754607.0	275.2	0.00	1.70	0.76	YES	
L0039275	0	0.14130E-06	543678.0	3754603.3	275.2	0.00	1.70	0.76	YES	
L0039276	0	0.14130E-06	543677.9	3754599.6	275.1	0.00	1.70	0.76	YES	
L0039277	0	0.14130E-06	543677.9	3754596.0	275.0	0.00	1.70	0.76	YES	
L0039278	0	0.14130E-06	543677.9	3754592.3	274.9	0.00	1.70	0.76	YES	
L0039279	0	0.14130E-06	543677.8	3754588.7	274.9	0.00	1.70	0.76	YES	
L0039280	0	0.14130E-06	543677.8	3754585.0	274.8	0.00	1.70	0.76	YES	
L0039281	0	0.14130E-06	543677.7	3754581.3	274.7	0.00	1.70	0.76	YES	
L0039282	0	0.14130E-06	543677.7	3754577.7	274.6	0.00	1.70	0.76	YES	
L0039283	0	0.14130E-06	543677.7	3754574.0	274.6	0.00	1.70	0.76	YES	
L0039284	0	0.14130E-06	543677.6	3754570.4	274.5	0.00	1.70	0.76	YES	

L0039285	0	0.14130E-06	543677.6	3754566.7	274.4	0.00	1.70	0.76	YES
L0039286	0	0.14130E-06	543677.6	3754563.1	274.3	0.00	1.70	0.76	YES
L0039287	0	0.14130E-06	543677.5	3754559.4	274.3	0.00	1.70	0.76	YES
L0039288	0	0.14130E-06	543677.5	3754555.7	274.2	0.00	1.70	0.76	YES
L0039289	0	0.14130E-06	543677.5	3754552.1	274.1	0.00	1.70	0.76	YES
L0039290	0	0.14130E-06	543677.4	3754548.4	274.1	0.00	1.70	0.76	YES
L0039291	0	0.14130E-06	543677.4	3754544.8	274.0	0.00	1.70	0.76	YES
L0039292	0	0.14130E-06	543677.4	3754541.1	273.9	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0039293	0	0.14130E-06	543677.3	3754537.5	273.8	0.00	1.70	0.76	YES	
L0039294	0	0.14130E-06	543677.3	3754533.8	273.8	0.00	1.70	0.76	YES	
L0039295	0	0.14130E-06	543677.2	3754530.1	273.7	0.00	1.70	0.76	YES	
L0039296	0	0.14130E-06	543677.2	3754526.5	273.6	0.00	1.70	0.76	YES	
L0039297	0	0.14130E-06	543677.2	3754522.8	273.5	0.00	1.70	0.76	YES	
L0039298	0	0.14130E-06	543677.1	3754519.2	273.5	0.00	1.70	0.76	YES	
L0039299	0	0.14130E-06	543677.1	3754515.5	273.4	0.00	1.70	0.76	YES	
L0039300	0	0.14130E-06	543677.1	3754511.9	273.3	0.00	1.70	0.76	YES	
L0039301	0	0.14130E-06	543677.0	3754508.2	273.2	0.00	1.70	0.76	YES	
L0039302	0	0.14130E-06	543677.0	3754504.5	273.2	0.00	1.70	0.76	YES	
L0039303	0	0.14130E-06	543677.0	3754500.9	273.1	0.00	1.70	0.76	YES	
L0039304	0	0.14130E-06	543676.9	3754497.2	273.0	0.00	1.70	0.76	YES	
L0039305	0	0.14130E-06	543676.9	3754493.6	273.0	0.00	1.70	0.76	YES	
L0039306	0	0.14130E-06	543676.8	3754489.9	272.9	0.00	1.70	0.76	YES	
L0039307	0	0.14130E-06	543676.8	3754486.3	272.8	0.00	1.70	0.76	YES	
L0039308	0	0.14130E-06	543676.8	3754482.6	272.7	0.00	1.70	0.76	YES	
L0039309	0	0.14130E-06	543676.7	3754478.9	272.7	0.00	1.70	0.76	YES	
L0039310	0	0.14130E-06	543676.7	3754475.3	272.6	0.00	1.70	0.76	YES	
L0039311	0	0.14130E-06	543676.7	3754471.6	272.5	0.00	1.70	0.76	YES	
L0039312	0	0.14130E-06	543676.6	3754468.0	272.4	0.00	1.70	0.76	YES	
L0039313	0	0.14130E-06	543676.6	3754464.3	272.4	0.00	1.70	0.76	YES	
L0039314	0	0.14130E-06	543676.6	3754460.7	272.3	0.00	1.70	0.76	YES	
L0039315	0	0.14130E-06	543676.5	3754457.0	272.2	0.00	1.70	0.76	YES	
L0039316	0	0.14130E-06	543676.5	3754453.3	272.2	0.00	1.70	0.76	YES	
L0039317	0	0.14130E-06	543676.4	3754449.7	272.1	0.00	1.70	0.76	YES	
L0039318	0	0.14130E-06	543676.4	3754446.0	272.0	0.00	1.70	0.76	YES	
L0039319	0	0.14130E-06	543676.4	3754442.4	271.9	0.00	1.70	0.76	YES	
L0039320	0	0.14130E-06	543676.3	3754438.7	271.9	0.00	1.70	0.76	YES	
L0039321	0	0.14130E-06	543676.3	3754435.1	271.8	0.00	1.70	0.76	YES	

L0039322	0	0.14130E-06	543676.3	3754431.4	271.7	0.00	1.70	0.76	YES
L0039323	0	0.14130E-06	543676.2	3754427.7	271.7	0.00	1.70	0.76	YES
L0039324	0	0.14130E-06	543676.2	3754424.1	271.6	0.00	1.70	0.76	YES
L0039325	0	0.14130E-06	543676.2	3754420.4	271.5	0.00	1.70	0.76	YES
L0039326	0	0.14130E-06	543676.1	3754416.8	271.4	0.00	1.70	0.76	YES
L0039327	0	0.14130E-06	543676.1	3754413.1	271.4	0.00	1.70	0.76	YES
L0039328	0	0.14130E-06	543676.1	3754409.5	271.3	0.00	1.70	0.76	YES
L0039329	0	0.14130E-06	543676.0	3754405.8	271.2	0.00	1.70	0.76	YES
L0039330	0	0.14130E-06	543676.0	3754402.1	271.2	0.00	1.70	0.76	YES
L0039331	0	0.14130E-06	543675.9	3754398.5	271.1	0.00	1.70	0.76	YES
L0039332	0	0.14130E-06	543675.9	3754394.8	271.0	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0039333	0	0.14130E-06	543675.9	3754391.2	270.9	0.00	1.70	0.76	YES	
L0039334	0	0.14130E-06	543675.8	3754387.5	270.9	0.00	1.70	0.76	YES	
L0039335	0	0.14130E-06	543675.8	3754383.8	270.8	0.00	1.70	0.76	YES	
L0039336	0	0.14130E-06	543675.8	3754380.2	270.7	0.00	1.70	0.76	YES	
L0039337	0	0.14130E-06	543675.7	3754376.5	270.7	0.00	1.70	0.76	YES	
L0039338	0	0.14130E-06	543675.7	3754372.9	270.6	0.00	1.70	0.76	YES	
L0039339	0	0.14130E-06	543675.7	3754369.2	270.5	0.00	1.70	0.76	YES	
L0039340	0	0.14130E-06	543675.6	3754365.6	270.4	0.00	1.70	0.76	YES	
L0039341	0	0.14130E-06	543675.6	3754361.9	270.4	0.00	1.70	0.76	YES	
L0039342	0	0.14130E-06	543675.5	3754358.2	270.3	0.00	1.70	0.76	YES	
L0039343	0	0.14130E-06	543675.5	3754354.6	270.2	0.00	1.70	0.76	YES	
L0039344	0	0.14130E-06	543675.5	3754350.9	270.1	0.00	1.70	0.76	YES	
L0039345	0	0.14130E-06	543675.4	3754347.3	270.0	0.00	1.70	0.76	YES	
L0039346	0	0.14130E-06	543675.4	3754343.6	269.9	0.00	1.70	0.76	YES	
L0039347	0	0.14130E-06	543675.4	3754340.0	269.9	0.00	1.70	0.76	YES	
L0039348	0	0.14130E-06	543675.3	3754336.3	269.8	0.00	1.70	0.76	YES	
L0039349	0	0.14130E-06	543675.3	3754332.6	269.7	0.00	1.70	0.76	YES	
L0039350	0	0.14130E-06	543675.3	3754329.0	269.6	0.00	1.70	0.76	YES	
L0039351	0	0.14130E-06	543675.2	3754325.3	269.5	0.00	1.70	0.76	YES	
L0039352	0	0.14130E-06	543675.2	3754321.7	269.4	0.00	1.70	0.76	YES	
L0039353	0	0.14130E-06	543675.1	3754318.0	269.4	0.00	1.70	0.76	YES	
L0039354	0	0.14130E-06	543675.1	3754314.4	269.3	0.00	1.70	0.76	YES	
L0039355	0	0.14130E-06	543675.1	3754310.7	269.2	0.00	1.70	0.76	YES	
L0039356	0	0.14130E-06	543675.0	3754307.0	269.1	0.00	1.70	0.76	YES	
L0039357	0	0.14130E-06	543675.0	3754303.4	269.1	0.00	1.70	0.76	YES	
L0039358	0	0.14130E-06	543675.0	3754299.7	269.0	0.00	1.70	0.76	YES	

L0039359	0	0.14130E-06	543674.9	3754296.1	268.9	0.00	1.70	0.76	YES	
L0039360	0	0.14130E-06	543674.9	3754292.4	268.9	0.00	1.70	0.76	YES	
L0039361	0	0.14130E-06	543674.9	3754288.8	268.8	0.00	1.70	0.76	YES	
L0039362	0	0.14130E-06	543674.8	3754285.1	268.7	0.00	1.70	0.76	YES	
L0039363	0	0.14130E-06	543674.8	3754281.4	268.7	0.00	1.70	0.76	YES	
L0039364	0	0.14130E-06	543674.8	3754277.8	268.6	0.00	1.70	0.76	YES	
L0039365	0	0.14130E-06	543674.7	3754274.1	268.6	0.00	1.70	0.76	YES	
L0039366	0	0.14130E-06	543674.7	3754270.5	268.5	0.00	1.70	0.76	YES	
L0039367	0	0.14130E-06	543674.6	3754266.8	268.4	0.00	1.70	0.76	YES	
L0039368	0	0.14130E-06	543674.6	3754263.2	268.4	0.00	1.70	0.76	YES	
L0039369	0	0.14130E-06	543674.6	3754259.5	268.3	0.00	1.70	0.76	YES	
L0039370	0	0.14130E-06	543674.5	3754255.8	268.3	0.00	1.70	0.76	YES	
L0039371	0	0.14130E-06	543674.5	3754252.2	268.2	0.00	1.70	0.76	YES	
L0039372	0	0.14130E-06	543674.5	3754248.5	268.1	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0039373	0	0.14130E-06	543674.4	3754244.9	268.1	0.00	1.70	0.76	YES	
L0039374	0	0.14130E-06	543674.4	3754241.2	268.0	0.00	1.70	0.76	YES	
L0039375	0	0.14130E-06	543674.4	3754237.6	267.9	0.00	1.70	0.76	YES	
L0039376	0	0.14130E-06	543674.3	3754233.9	267.9	0.00	1.70	0.76	YES	
L0039377	0	0.14130E-06	543674.3	3754230.2	267.8	0.00	1.70	0.76	YES	
L0039378	0	0.14130E-06	543674.2	3754226.6	267.8	0.00	1.70	0.76	YES	
L0039379	0	0.14130E-06	543674.2	3754222.9	267.7	0.00	1.70	0.76	YES	
L0039380	0	0.14130E-06	543674.2	3754219.3	267.7	0.00	1.70	0.76	YES	
L0039381	0	0.14130E-06	543674.1	3754215.6	267.6	0.00	1.70	0.76	YES	
L0039382	0	0.14130E-06	543674.1	3754211.9	267.6	0.00	1.70	0.76	YES	
L0039383	0	0.14130E-06	543674.1	3754208.3	267.5	0.00	1.70	0.76	YES	
L0039384	0	0.14130E-06	543674.0	3754204.6	267.5	0.00	1.70	0.76	YES	
L0039385	0	0.14130E-06	543674.0	3754201.0	267.4	0.00	1.70	0.76	YES	
L0039386	0	0.14130E-06	543674.0	3754197.3	267.4	0.00	1.70	0.76	YES	
L0039387	0	0.14130E-06	543673.9	3754193.7	267.3	0.00	1.70	0.76	YES	
L0039388	0	0.14130E-06	543673.9	3754190.0	267.2	0.00	1.70	0.76	YES	
L0039389	0	0.14130E-06	543673.8	3754186.3	267.2	0.00	1.70	0.76	YES	
L0039390	0	0.14130E-06	543673.8	3754182.7	267.1	0.00	1.70	0.76	YES	
L0039391	0	0.14130E-06	543673.8	3754179.0	267.1	0.00	1.70	0.76	YES	
L0039392	0	0.14130E-06	543673.7	3754175.4	267.0	0.00	1.70	0.76	YES	
L0039393	0	0.14130E-06	543673.7	3754171.7	266.9	0.00	1.70	0.76	YES	
L0039394	0	0.14130E-06	543673.7	3754168.1	266.9	0.00	1.70	0.76	YES	
L0039395	0	0.14130E-06	543673.6	3754164.4	266.8	0.00	1.70	0.76	YES	

L0039396	0	0.14130E-06	543673.6	3754160.7	266.7	0.00	1.70	0.76	YES	
L0039397	0	0.14130E-06	543673.6	3754157.1	266.7	0.00	1.70	0.76	YES	
L0039398	0	0.14130E-06	543673.5	3754153.4	266.6	0.00	1.70	0.76	YES	
L0039399	0	0.14130E-06	543673.5	3754149.8	266.5	0.00	1.70	0.76	YES	
L0039400	0	0.14130E-06	543673.5	3754146.1	266.4	0.00	1.70	0.76	YES	
L0039401	0	0.14130E-06	543673.4	3754142.5	266.4	0.00	1.70	0.76	YES	
L0039402	0	0.14130E-06	543673.4	3754138.8	266.3	0.00	1.70	0.76	YES	
L0039403	0	0.14130E-06	543673.3	3754135.1	266.2	0.00	1.70	0.76	YES	
L0039404	0	0.14130E-06	543673.3	3754131.5	266.2	0.00	1.70	0.76	YES	
L0039405	0	0.14130E-06	543673.3	3754127.8	266.1	0.00	1.70	0.76	YES	
L0039406	0	0.14130E-06	543673.2	3754124.2	266.1	0.00	1.70	0.76	YES	
L0039407	0	0.14130E-06	543673.2	3754120.5	266.0	0.00	1.70	0.76	YES	
L0039408	0	0.14130E-06	543673.2	3754116.9	265.9	0.00	1.70	0.76	YES	
L0039409	0	0.14130E-06	543673.1	3754113.2	265.9	0.00	1.70	0.76	YES	
L0039410	0	0.14130E-06	543673.1	3754109.5	265.8	0.00	1.70	0.76	YES	
L0039411	0	0.14130E-06	543673.1	3754105.9	265.7	0.00	1.70	0.76	YES	
L0039412	0	0.14130E-06	543673.0	3754102.2	265.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0039413	0	0.14130E-06	543673.0	3754098.6	265.6	0.00	1.70	0.76	YES	
L0039414	0	0.14130E-06	543672.9	3754094.9	265.6	0.00	1.70	0.76	YES	
L0039415	0	0.14130E-06	543672.9	3754091.3	265.5	0.00	1.70	0.76	YES	
L0039416	0	0.14130E-06	543672.9	3754087.6	265.4	0.00	1.70	0.76	YES	
L0039417	0	0.14130E-06	543672.8	3754083.9	265.4	0.00	1.70	0.76	YES	
L0039418	0	0.14130E-06	543672.8	3754080.3	265.3	0.00	1.70	0.76	YES	
L0039419	0	0.14130E-06	543672.8	3754076.6	265.2	0.00	1.70	0.76	YES	
L0039420	0	0.14130E-06	543672.7	3754073.0	265.2	0.00	1.70	0.76	YES	
L0039421	0	0.14130E-06	543672.7	3754069.3	265.1	0.00	1.70	0.76	YES	
L0039422	0	0.14130E-06	543672.7	3754065.7	265.0	0.00	1.70	0.76	YES	
L0039423	0	0.14130E-06	543672.6	3754062.0	264.9	0.00	1.70	0.76	YES	
L0039424	0	0.14130E-06	543672.6	3754058.3	264.9	0.00	1.70	0.76	YES	
L0039425	0	0.14130E-06	543672.5	3754054.7	264.8	0.00	1.70	0.76	YES	
L0039426	0	0.14130E-06	543672.5	3754051.0	264.7	0.00	1.70	0.76	YES	
L0039427	0	0.14130E-06	543672.5	3754047.4	264.7	0.00	1.70	0.76	YES	
L0039428	0	0.14130E-06	543672.4	3754043.7	264.6	0.00	1.70	0.76	YES	
L0039429	0	0.14130E-06	543672.4	3754040.1	264.5	0.00	1.70	0.76	YES	
L0039430	0	0.14130E-06	543672.4	3754036.4	264.5	0.00	1.70	0.76	YES	
L0039431	0	0.14130E-06	543672.3	3754032.7	264.4	0.00	1.70	0.76	YES	
L0039432	0	0.14130E-06	543672.3	3754029.1	264.3	0.00	1.70	0.76	YES	

L0039433	0	0.14130E-06	543672.3	3754025.4	264.3	0.00	1.70	0.76	YES
L0039434	0	0.14130E-06	543672.2	3754021.8	264.2	0.00	1.70	0.76	YES
L0039435	0	0.14130E-06	543672.2	3754018.1	264.1	0.00	1.70	0.76	YES
L0039436	0	0.14130E-06	543672.2	3754014.4	264.1	0.00	1.70	0.76	YES
L0039437	0	0.14130E-06	543672.1	3754010.8	264.0	0.00	1.70	0.76	YES
L0039438	0	0.14130E-06	543672.1	3754007.1	263.9	0.00	1.70	0.76	YES
L0039439	0	0.14130E-06	543672.0	3754003.5	263.9	0.00	1.70	0.76	YES
L0039440	0	0.14130E-06	543672.0	3753999.8	263.8	0.00	1.70	0.76	YES
L0039441	0	0.14130E-06	543672.0	3753996.2	263.7	0.00	1.70	0.76	YES
L0039442	0	0.14130E-06	543671.9	3753992.5	263.7	0.00	1.70	0.76	YES
L0039443	0	0.14130E-06	543671.9	3753988.8	263.6	0.00	1.70	0.76	YES
L0039444	0	0.14130E-06	543671.9	3753985.2	263.5	0.00	1.70	0.76	YES
L0039445	0	0.14130E-06	543671.8	3753981.5	263.4	0.00	1.70	0.76	YES
L0039446	0	0.14130E-06	543671.8	3753977.9	263.4	0.00	1.70	0.76	YES
L0039447	0	0.14130E-06	543671.8	3753974.2	263.3	0.00	1.70	0.76	YES
L0039448	0	0.14130E-06	543671.7	3753970.6	263.2	0.00	1.70	0.76	YES
L0039449	0	0.14130E-06	543671.7	3753966.9	263.2	0.00	1.70	0.76	YES
L0039450	0	0.14130E-06	543671.6	3753963.2	263.1	0.00	1.70	0.76	YES
L0039451	0	0.14130E-06	543671.6	3753959.6	263.0	0.00	1.70	0.76	YES
L0039452	0	0.14130E-06	543671.6	3753955.9	262.9	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0039453	0	0.14130E-06	543671.5	3753952.3	262.9	0.00	1.70	0.76	YES	
L0039454	0	0.14130E-06	543671.5	3753948.6	262.8	0.00	1.70	0.76	YES	
L0039455	0	0.14130E-06	543671.5	3753945.0	262.7	0.00	1.70	0.76	YES	
L0039456	0	0.14130E-06	543671.4	3753941.3	262.7	0.00	1.70	0.76	YES	
L0039457	0	0.14130E-06	543671.4	3753937.6	262.6	0.00	1.70	0.76	YES	
L0039458	0	0.79640E-07	543669.1	3753932.3	262.5	0.00	1.70	0.76	YES	
L0039459	0	0.79640E-07	543665.5	3753932.3	262.5	0.00	1.70	0.76	YES	
L0039460	0	0.79640E-07	543661.8	3753932.3	262.5	0.00	1.70	0.76	YES	
L0039461	0	0.79640E-07	543658.2	3753932.3	262.5	0.00	1.70	0.76	YES	
L0039462	0	0.79640E-07	543654.5	3753932.3	262.5	0.00	1.70	0.76	YES	
L0039463	0	0.79640E-07	543650.9	3753932.3	262.5	0.00	1.70	0.76	YES	
L0039464	0	0.79640E-07	543647.2	3753932.3	262.5	0.00	1.70	0.76	YES	
L0039465	0	0.79640E-07	543643.5	3753932.3	262.6	0.00	1.70	0.76	YES	
L0039466	0	0.79640E-07	543639.9	3753932.3	262.6	0.00	1.70	0.76	YES	
L0039467	0	0.79640E-07	543636.2	3753932.2	262.6	0.00	1.70	0.76	YES	
L0039468	0	0.79640E-07	543632.6	3753932.2	262.6	0.00	1.70	0.76	YES	
L0039469	0	0.79640E-07	543628.9	3753932.2	262.6	0.00	1.70	0.76	YES	

L0039470	0	0.79640E-07	543625.2	3753932.2	262.6	0.00	1.70	0.76	YES
L0039471	0	0.79640E-07	543621.6	3753932.2	262.6	0.00	1.70	0.76	YES
L0039472	0	0.79640E-07	543617.9	3753932.2	262.6	0.00	1.70	0.76	YES
L0039473	0	0.79640E-07	543614.3	3753932.2	262.6	0.00	1.70	0.76	YES
L0039474	0	0.79640E-07	543610.6	3753932.2	262.6	0.00	1.70	0.76	YES
L0039475	0	0.79640E-07	543607.0	3753932.2	262.6	0.00	1.70	0.76	YES
L0039476	0	0.79640E-07	543603.3	3753932.2	262.7	0.00	1.70	0.76	YES
L0039477	0	0.79640E-07	543599.6	3753932.2	262.7	0.00	1.70	0.76	YES
L0039478	0	0.79640E-07	543596.0	3753932.2	262.7	0.00	1.70	0.76	YES
L0039479	0	0.79640E-07	543592.3	3753932.1	262.7	0.00	1.70	0.76	YES
L0039480	0	0.79640E-07	543588.7	3753932.1	262.7	0.00	1.70	0.76	YES
L0039481	0	0.79640E-07	543585.0	3753932.1	262.7	0.00	1.70	0.76	YES
L0039482	0	0.79640E-07	543581.4	3753932.1	262.7	0.00	1.70	0.76	YES
L0039483	0	0.79640E-07	543577.7	3753932.1	262.7	0.00	1.70	0.76	YES
L0039484	0	0.79640E-07	543574.0	3753932.1	262.8	0.00	1.70	0.76	YES
L0039485	0	0.79640E-07	543570.4	3753932.1	262.8	0.00	1.70	0.76	YES
L0039486	0	0.79640E-07	543566.7	3753932.1	262.8	0.00	1.70	0.76	YES
L0039487	0	0.79640E-07	543563.1	3753932.1	262.8	0.00	1.70	0.76	YES
L0039488	0	0.79640E-07	543559.4	3753932.1	262.8	0.00	1.70	0.76	YES
L0039489	0	0.79640E-07	543555.8	3753932.1	262.8	0.00	1.70	0.76	YES
L0039490	0	0.79640E-07	543552.1	3753932.0	262.9	0.00	1.70	0.76	YES
L0039491	0	0.79640E-07	543548.4	3753932.0	262.9	0.00	1.70	0.76	YES
L0039492	0	0.79640E-07	543544.8	3753932.0	262.9	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0039493	0	0.79640E-07	543541.1	3753932.0	262.9	0.00	1.70	0.76	YES	
L0039494	0	0.79640E-07	543537.5	3753932.0	262.9	0.00	1.70	0.76	YES	
L0039495	0	0.79640E-07	543533.8	3753932.0	262.9	0.00	1.70	0.76	YES	
L0039496	0	0.79640E-07	543530.2	3753932.0	262.9	0.00	1.70	0.76	YES	
L0039497	0	0.79640E-07	543526.5	3753932.0	263.0	0.00	1.70	0.76	YES	
L0039498	0	0.79640E-07	543522.8	3753932.0	263.0	0.00	1.70	0.76	YES	
L0039499	0	0.79640E-07	543519.2	3753932.0	263.1	0.00	1.70	0.76	YES	
L0039500	0	0.79640E-07	543515.5	3753932.0	263.1	0.00	1.70	0.76	YES	
L0039501	0	0.79640E-07	543511.9	3753932.0	263.1	0.00	1.70	0.76	YES	
L0039502	0	0.79640E-07	543508.2	3753931.9	263.2	0.00	1.70	0.76	YES	
L0039503	0	0.79640E-07	543504.5	3753931.9	263.2	0.00	1.70	0.76	YES	
L0039504	0	0.79640E-07	543500.9	3753931.9	263.2	0.00	1.70	0.76	YES	
L0039505	0	0.79640E-07	543497.2	3753931.9	263.3	0.00	1.70	0.76	YES	
L0039506	0	0.79640E-07	543493.6	3753931.9	263.3	0.00	1.70	0.76	YES	

L0039507	0	0.79640E-07	543489.9	3753931.9	263.3	0.00	1.70	0.76	YES	
L0039508	0	0.79640E-07	543486.3	3753931.9	263.4	0.00	1.70	0.76	YES	
L0039509	0	0.79640E-07	543482.6	3753931.9	263.4	0.00	1.70	0.76	YES	
L0039510	0	0.79640E-07	543478.9	3753931.9	263.4	0.00	1.70	0.76	YES	
L0039511	0	0.79640E-07	543475.3	3753931.9	263.4	0.00	1.70	0.76	YES	
L0039512	0	0.79640E-07	543471.6	3753931.9	263.4	0.00	1.70	0.76	YES	
L0039513	0	0.79640E-07	543468.0	3753931.9	263.4	0.00	1.70	0.76	YES	
L0039514	0	0.79640E-07	543464.3	3753931.8	263.5	0.00	1.70	0.76	YES	
L0039515	0	0.79640E-07	543460.7	3753931.8	263.5	0.00	1.70	0.76	YES	
L0039516	0	0.79640E-07	543457.0	3753931.8	263.5	0.00	1.70	0.76	YES	
L0039517	0	0.79640E-07	543453.3	3753931.8	263.5	0.00	1.70	0.76	YES	
L0039518	0	0.79640E-07	543449.7	3753931.8	263.5	0.00	1.70	0.76	YES	
L0039519	0	0.79640E-07	543446.0	3753931.8	263.5	0.00	1.70	0.76	YES	
L0039520	0	0.79640E-07	543442.4	3753931.8	263.6	0.00	1.70	0.76	YES	
L0039521	0	0.79640E-07	543438.7	3753931.8	263.6	0.00	1.70	0.76	YES	
L0039522	0	0.79640E-07	543435.1	3753931.8	263.6	0.00	1.70	0.76	YES	
L0039523	0	0.79640E-07	543431.4	3753931.8	263.6	0.00	1.70	0.76	YES	
L0039524	0	0.79640E-07	543427.7	3753931.8	263.6	0.00	1.70	0.76	YES	
L0039525	0	0.79640E-07	543424.1	3753931.8	263.6	0.00	1.70	0.76	YES	
L0039526	0	0.79640E-07	543420.4	3753931.7	263.7	0.00	1.70	0.76	YES	
L0039527	0	0.79640E-07	543416.8	3753931.7	263.7	0.00	1.70	0.76	YES	
L0039528	0	0.79640E-07	543413.1	3753931.7	263.7	0.00	1.70	0.76	YES	
L0039529	0	0.79640E-07	543409.5	3753931.7	263.7	0.00	1.70	0.76	YES	
L0039530	0	0.79640E-07	543405.8	3753931.7	263.7	0.00	1.70	0.76	YES	
L0039531	0	0.79640E-07	543402.1	3753931.7	263.7	0.00	1.70	0.76	YES	
L0039532	0	0.79640E-07	543398.5	3753931.7	263.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0039533	0	0.79640E-07	543394.8	3753931.7	263.7	0.00	1.70	0.76	YES	
L0039534	0	0.79640E-07	543391.2	3753931.7	263.8	0.00	1.70	0.76	YES	
L0039535	0	0.79640E-07	543387.5	3753931.7	263.8	0.00	1.70	0.76	YES	
L0039536	0	0.79640E-07	543383.8	3753931.7	263.8	0.00	1.70	0.76	YES	
L0039537	0	0.79640E-07	543380.2	3753931.7	263.8	0.00	1.70	0.76	YES	
L0039538	0	0.79640E-07	543376.5	3753931.6	263.8	0.00	1.70	0.76	YES	
L0039539	0	0.79640E-07	543372.9	3753931.6	263.8	0.00	1.70	0.76	YES	
L0039540	0	0.79640E-07	543369.2	3753931.6	263.8	0.00	1.70	0.76	YES	
L0039541	0	0.79640E-07	543365.6	3753931.6	263.8	0.00	1.70	0.76	YES	
L0039542	0	0.79640E-07	543361.9	3753931.6	263.8	0.00	1.70	0.76	YES	
L0039543	0	0.79640E-07	543358.2	3753931.6	263.9	0.00	1.70	0.76	YES	

L0039544	0	0.79640E-07	543354.6	3753931.6	263.9	0.00	1.70	0.76	YES	
L0039545	0	0.79640E-07	543350.9	3753931.6	263.9	0.00	1.70	0.76	YES	
L0039546	0	0.79640E-07	543347.3	3753931.6	263.9	0.00	1.70	0.76	YES	
L0039547	0	0.79640E-07	543343.6	3753931.6	263.9	0.00	1.70	0.76	YES	
L0039548	0	0.79640E-07	543340.0	3753931.6	263.9	0.00	1.70	0.76	YES	
L0039549	0	0.79640E-07	543336.3	3753931.6	263.9	0.00	1.70	0.76	YES	
L0039550	0	0.79640E-07	543332.6	3753931.5	263.9	0.00	1.70	0.76	YES	
L0039551	0	0.79640E-07	543329.0	3753931.5	263.9	0.00	1.70	0.76	YES	
L0039552	0	0.79640E-07	543325.3	3753931.5	263.9	0.00	1.70	0.76	YES	
L0039553	0	0.79640E-07	543321.7	3753931.5	263.9	0.00	1.70	0.76	YES	
L0039554	0	0.79640E-07	543318.0	3753931.5	263.9	0.00	1.70	0.76	YES	
L0039555	0	0.79640E-07	543314.4	3753931.5	263.9	0.00	1.70	0.76	YES	
L0039556	0	0.79640E-07	543310.7	3753931.5	263.9	0.00	1.70	0.76	YES	
L0039557	0	0.79640E-07	543307.0	3753931.5	263.9	0.00	1.70	0.76	YES	
L0039558	0	0.79640E-07	543303.4	3753931.5	263.9	0.00	1.70	0.76	YES	
L0039559	0	0.79640E-07	543299.7	3753931.5	263.9	0.00	1.70	0.76	YES	
L0039560	0	0.79640E-07	543296.1	3753931.5	263.9	0.00	1.70	0.76	YES	
L0039561	0	0.79640E-07	543292.4	3753931.4	263.9	0.00	1.70	0.76	YES	
L0039562	0	0.79640E-07	543288.8	3753931.4	263.9	0.00	1.70	0.76	YES	
L0039563	0	0.79640E-07	543285.1	3753931.4	263.9	0.00	1.70	0.76	YES	
L0039564	0	0.79640E-07	543281.4	3753931.4	263.9	0.00	1.70	0.76	YES	
L0039565	0	0.79640E-07	543277.8	3753931.4	263.9	0.00	1.70	0.76	YES	
L0039566	0	0.79640E-07	543274.1	3753931.4	263.9	0.00	1.70	0.76	YES	
L0039567	0	0.79640E-07	543270.5	3753931.4	263.9	0.00	1.70	0.76	YES	
L0039568	0	0.79640E-07	543266.8	3753931.4	263.9	0.00	1.70	0.76	YES	
L0039569	0	0.79640E-07	543263.1	3753931.4	264.0	0.00	1.70	0.76	YES	
L0039570	0	0.79640E-07	543259.5	3753931.4	264.0	0.00	1.70	0.76	YES	
L0039571	0	0.79640E-07	543255.8	3753931.4	264.0	0.00	1.70	0.76	YES	
L0039572	0	0.79640E-07	543252.2	3753931.4	264.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0039573	0	0.79640E-07	543248.5	3753931.3	264.0	0.00	1.70	0.76	YES	
L0039574	0	0.79640E-07	543244.9	3753931.3	264.0	0.00	1.70	0.76	YES	
L0039575	0	0.79640E-07	543241.2	3753931.3	264.0	0.00	1.70	0.76	YES	
L0039576	0	0.79640E-07	543237.5	3753931.3	264.1	0.00	1.70	0.76	YES	
L0039577	0	0.79640E-07	543233.9	3753931.3	264.1	0.00	1.70	0.76	YES	
L0039578	0	0.79640E-07	543230.2	3753931.3	264.1	0.00	1.70	0.76	YES	
L0039579	0	0.79640E-07	543226.6	3753931.3	264.1	0.00	1.70	0.76	YES	
L0039580	0	0.79640E-07	543222.9	3753931.3	264.1	0.00	1.70	0.76	YES	

L0039581	0	0.79640E-07	543219.3	3753931.3	264.1	0.00	1.70	0.76	YES	
L0039582	0	0.79640E-07	543215.6	3753931.3	264.1	0.00	1.70	0.76	YES	
L0039583	0	0.79640E-07	543211.9	3753931.3	264.1	0.00	1.70	0.76	YES	
L0039584	0	0.79640E-07	543208.3	3753931.3	264.2	0.00	1.70	0.76	YES	
L0039585	0	0.79640E-07	543204.6	3753931.2	264.2	0.00	1.70	0.76	YES	
L0039586	0	0.79640E-07	543201.0	3753931.2	264.2	0.00	1.70	0.76	YES	
L0039587	0	0.79640E-07	543197.3	3753931.2	264.2	0.00	1.70	0.76	YES	
L0039588	0	0.79640E-07	543193.7	3753931.2	264.2	0.00	1.70	0.76	YES	
L0039589	0	0.79640E-07	543190.0	3753931.2	264.2	0.00	1.70	0.76	YES	
L0039590	0	0.79640E-07	543186.3	3753931.2	264.2	0.00	1.70	0.76	YES	
L0039591	0	0.79640E-07	543182.7	3753931.2	264.2	0.00	1.70	0.76	YES	
L0039592	0	0.79640E-07	543179.0	3753931.2	264.2	0.00	1.70	0.76	YES	
L0039593	0	0.79640E-07	543175.4	3753931.2	264.3	0.00	1.70	0.76	YES	
L0039594	0	0.79640E-07	543171.7	3753931.2	264.3	0.00	1.70	0.76	YES	
L0039595	0	0.79640E-07	543168.1	3753931.2	264.3	0.00	1.70	0.76	YES	
L0039596	0	0.79640E-07	543164.4	3753931.2	264.3	0.00	1.70	0.76	YES	
L0039597	0	0.79640E-07	543160.7	3753931.1	264.3	0.00	1.70	0.76	YES	
L0039598	0	0.79640E-07	543157.1	3753931.1	264.3	0.00	1.70	0.76	YES	
L0039599	0	0.79640E-07	543153.4	3753931.1	264.3	0.00	1.70	0.76	YES	
L0039600	0	0.79640E-07	543149.8	3753931.1	264.3	0.00	1.70	0.76	YES	
L0039601	0	0.79640E-07	543146.1	3753931.1	264.3	0.00	1.70	0.76	YES	
L0039602	0	0.79640E-07	543142.4	3753931.1	264.3	0.00	1.70	0.76	YES	
L0039603	0	0.79640E-07	543138.8	3753931.1	264.3	0.00	1.70	0.76	YES	
L0039604	0	0.79640E-07	543135.1	3753931.1	264.3	0.00	1.70	0.76	YES	
L0039605	0	0.79640E-07	543131.5	3753931.1	264.3	0.00	1.70	0.76	YES	
L0039606	0	0.79640E-07	543127.8	3753931.1	264.3	0.00	1.70	0.76	YES	
L0039607	0	0.79640E-07	543124.2	3753931.1	264.4	0.00	1.70	0.76	YES	
L0039608	0	0.79640E-07	543120.5	3753931.1	264.4	0.00	1.70	0.76	YES	
L0039609	0	0.79640E-07	543116.8	3753931.0	264.4	0.00	1.70	0.76	YES	
L0039610	0	0.79640E-07	543113.2	3753931.0	264.4	0.00	1.70	0.76	YES	
L0039611	0	0.79640E-07	543109.5	3753931.0	264.4	0.00	1.70	0.76	YES	
L0039612	0	0.79640E-07	543105.9	3753931.0	264.4	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0039613	0	0.79640E-07	543102.2	3753931.0	264.4	0.00	1.70	0.76	YES	
L0039614	0	0.79640E-07	543098.6	3753931.0	264.4	0.00	1.70	0.76	YES	
L0039615	0	0.79640E-07	543094.9	3753931.0	264.4	0.00	1.70	0.76	YES	
L0039616	0	0.79640E-07	543091.2	3753931.0	264.4	0.00	1.70	0.76	YES	
L0039617	0	0.79640E-07	543087.6	3753931.0	264.4	0.00	1.70	0.76	YES	

L0039618	0	0.79640E-07	543083.9	3753931.0	264.4	0.00	1.70	0.76	YES
L0039619	0	0.79640E-07	543080.3	3753931.0	264.4	0.00	1.70	0.76	YES
L0039620	0	0.79640E-07	543076.6	3753931.0	264.4	0.00	1.70	0.76	YES
L0039621	0	0.79640E-07	543073.0	3753930.9	264.4	0.00	1.70	0.76	YES
L0039622	0	0.79640E-07	543069.3	3753930.9	264.4	0.00	1.70	0.76	YES
L0039623	0	0.79640E-07	543065.6	3753930.9	264.4	0.00	1.70	0.76	YES
L0039624	0	0.79640E-07	543062.0	3753930.9	264.4	0.00	1.70	0.76	YES
L0039625	0	0.79640E-07	543058.3	3753930.9	264.4	0.00	1.70	0.76	YES
L0039626	0	0.79640E-07	543054.7	3753930.9	264.4	0.00	1.70	0.76	YES
L0039627	0	0.79640E-07	543051.0	3753930.9	264.4	0.00	1.70	0.76	YES
L0039628	0	0.79640E-07	543047.3	3753930.9	264.4	0.00	1.70	0.76	YES
L0039629	0	0.79640E-07	543043.7	3753930.9	264.4	0.00	1.70	0.76	YES
L0039630	0	0.79640E-07	543040.0	3753930.9	264.4	0.00	1.70	0.76	YES
L0039631	0	0.79640E-07	543036.4	3753930.9	264.4	0.00	1.70	0.76	YES
L0039632	0	0.79640E-07	543032.7	3753930.8	264.4	0.00	1.70	0.76	YES
L0039633	0	0.79640E-07	543029.1	3753930.8	264.4	0.00	1.70	0.76	YES
L0039634	0	0.79640E-07	543025.4	3753930.8	264.4	0.00	1.70	0.76	YES
L0039635	0	0.79640E-07	543021.7	3753930.8	264.4	0.00	1.70	0.76	YES
L0039636	0	0.79640E-07	543018.1	3753930.8	264.4	0.00	1.70	0.76	YES
L0039637	0	0.79640E-07	543014.4	3753930.8	264.4	0.00	1.70	0.76	YES
L0039638	0	0.79640E-07	543010.8	3753930.8	264.4	0.00	1.70	0.76	YES
L0039639	0	0.79640E-07	543007.1	3753930.8	264.4	0.00	1.70	0.76	YES
L0039640	0	0.79640E-07	543003.5	3753930.8	264.4	0.00	1.70	0.76	YES
L0039641	0	0.79640E-07	542999.8	3753930.8	264.4	0.00	1.70	0.76	YES
L0039642	0	0.79640E-07	542996.1	3753930.8	264.4	0.00	1.70	0.76	YES
L0039643	0	0.79640E-07	542992.5	3753930.8	264.4	0.00	1.70	0.76	YES
L0039644	0	0.79640E-07	542988.8	3753930.7	264.4	0.00	1.70	0.76	YES
L0039645	0	0.79640E-07	542985.2	3753930.7	264.4	0.00	1.70	0.76	YES
L0039646	0	0.79640E-07	542981.5	3753930.7	264.4	0.00	1.70	0.76	YES
L0039647	0	0.79640E-07	542977.9	3753930.7	264.4	0.00	1.70	0.76	YES
L0039648	0	0.79640E-07	542974.2	3753930.7	264.4	0.00	1.70	0.76	YES
L0039649	0	0.79640E-07	542970.5	3753930.7	264.4	0.00	1.70	0.76	YES
L0039650	0	0.79640E-07	542966.9	3753930.7	264.4	0.00	1.70	0.76	YES
L0039651	0	0.79640E-07	542963.2	3753930.7	264.4	0.00	1.70	0.76	YES
L0039652	0	0.79640E-07	542959.6	3753930.7	264.4	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0039653	0	0.79640E-07	542955.9	3753930.7	264.5	0.00	1.70	0.76	YES	
L0039654	0	0.79640E-07	542952.3	3753930.7	264.5	0.00	1.70	0.76	YES	

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L0039655         0   0.79640E-07  542948.6 3753930.7   264.5     0.00     1.70     0.76     YES
L0039656         0   0.79640E-07  542944.9 3753930.6   264.5     0.00     1.70     0.76     YES
L0039657         0   0.79640E-07  542941.3 3753930.6   264.5     0.00     1.70     0.76     YES
L0039658         0   0.79640E-07  542937.6 3753930.6   264.5     0.00     1.70     0.76     YES
L0039659         0   0.79640E-07  542934.0 3753930.6   264.6     0.00     1.70     0.76     YES
L0039660         0   0.79640E-07  542930.3 3753930.6   264.6     0.00     1.70     0.76     YES
L0039661         0   0.79640E-07  542926.6 3753930.6   264.6     0.00     1.70     0.76     YES
L0039662         0   0.79640E-07  542923.0 3753930.6   264.6     0.00     1.70     0.76     YES
L0039663         0   0.79640E-07  542919.3 3753930.6   264.6     0.00     1.70     0.76     YES
L0039664         0   0.79640E-07  542915.7 3753930.6   264.6     0.00     1.70     0.76     YES
L0039665         0   0.79640E-07  542912.0 3753930.6   264.7     0.00     1.70     0.76     YES
L0039666         0   0.79640E-07  542908.4 3753930.6   264.7     0.00     1.70     0.76     YES
L0039667         0   0.79640E-07  542904.7 3753930.6   264.7     0.00     1.70     0.76     YES
L0039668         0   0.79640E-07  542901.0 3753930.5   264.7     0.00     1.70     0.76     YES
L0039669         0   0.79640E-07  542897.4 3753930.5   264.7     0.00     1.70     0.76     YES
L0039670         0   0.79640E-07  542893.7 3753930.5   264.7     0.00     1.70     0.76     YES
L0039671         0   0.79640E-07  542890.1 3753930.5   264.7     0.00     1.70     0.76     YES
L0039672         0   0.79640E-07  542886.4 3753930.5   264.8     0.00     1.70     0.76     YES
L0039673         0   0.79640E-07  542882.8 3753930.5   264.8     0.00     1.70     0.76     YES
L0039674         0   0.79640E-07  542879.1 3753930.5   264.8     0.00     1.70     0.76     YES
L0039675         0   0.79640E-07  542875.4 3753930.5   264.8     0.00     1.70     0.76     YES
L0039676         0   0.79640E-07  542871.8 3753930.5   264.9     0.00     1.70     0.76     YES
L0039677         0   0.79640E-07  542868.1 3753930.5   264.9     0.00     1.70     0.76     YES
L0039678         0   0.79640E-07  542864.5 3753930.5   264.9     0.00     1.70     0.76     YES
L0039679         0   0.79640E-07  542860.8 3753930.5   264.9     0.00     1.70     0.76     YES
L0039680         0   0.79640E-07  542857.2 3753930.4   264.9     0.00     1.70     0.76     YES
L0039681         0   0.79640E-07  542853.5 3753930.4   265.0     0.00     1.70     0.76     YES
L0039682         0   0.79640E-07  542849.8 3753930.4   265.0     0.00     1.70     0.76     YES
L0039683         0   0.79640E-07  542846.2 3753930.4   265.0     0.00     1.70     0.76     YES
L0039684         0   0.79640E-07  542842.5 3753930.4   265.0     0.00     1.70     0.76     YES
L0039685         0   0.79640E-07  542838.9 3753930.4   265.0     0.00     1.70     0.76     YES
L0039686         0   0.79640E-07  542835.2 3753930.4   265.1     0.00     1.70     0.76     YES
L0039687         0   0.79640E-07  542831.6 3753930.4   265.1     0.00     1.70     0.76     YES
L0039688         0   0.79640E-07  542827.9 3753930.4   265.1     0.00     1.70     0.76     YES
L0039689         0   0.79640E-07  542824.2 3753930.4   265.2     0.00     1.70     0.76     YES
L0039690         0   0.79640E-07  542820.6 3753930.4   265.2     0.00     1.70     0.76     YES
L0039691         0   0.79640E-07  542816.9 3753930.4   265.2     0.00     1.70     0.76     YES
L0039692         0   0.79640E-07  542813.3 3753930.3   265.2     0.00     1.70     0.76     YES
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY

L0039693	0	0.79640E-07	542809.6	3753930.3	265.3	0.00	1.70	0.76	YES
L0039694	0	0.79640E-07	542805.9	3753930.3	265.3	0.00	1.70	0.76	YES
L0039695	0	0.79640E-07	542802.3	3753930.3	265.3	0.00	1.70	0.76	YES
L0039696	0	0.79640E-07	542798.6	3753930.3	265.4	0.00	1.70	0.76	YES
L0039697	0	0.79640E-07	542795.0	3753930.3	265.4	0.00	1.70	0.76	YES
L0039698	0	0.79640E-07	542791.3	3753930.3	265.4	0.00	1.70	0.76	YES
L0039699	0	0.79640E-07	542787.7	3753930.3	265.4	0.00	1.70	0.76	YES
L0039700	0	0.79640E-07	542784.0	3753930.3	265.4	0.00	1.70	0.76	YES
L0039701	0	0.79640E-07	542780.3	3753930.3	265.5	0.00	1.70	0.76	YES
L0039702	0	0.79640E-07	542776.7	3753930.3	265.5	0.00	1.70	0.76	YES
L0039703	0	0.79640E-07	542773.0	3753930.3	265.5	0.00	1.70	0.76	YES
L0039704	0	0.79640E-07	542769.4	3753930.2	265.5	0.00	1.70	0.76	YES
L0039705	0	0.79640E-07	542765.7	3753930.2	265.6	0.00	1.70	0.76	YES
L0039706	0	0.79640E-07	542762.1	3753930.2	265.6	0.00	1.70	0.76	YES
L0039707	0	0.79640E-07	542758.4	3753930.2	265.6	0.00	1.70	0.76	YES
L0039708	0	0.79640E-07	542754.7	3753930.2	265.6	0.00	1.70	0.76	YES
L0039709	0	0.79640E-07	542751.1	3753930.2	265.7	0.00	1.70	0.76	YES
L0039710	0	0.79640E-07	542747.4	3753930.2	265.7	0.00	1.70	0.76	YES
L0039711	0	0.79640E-07	542743.8	3753930.2	265.7	0.00	1.70	0.76	YES
L0039712	0	0.79640E-07	542740.1	3753930.2	265.7	0.00	1.70	0.76	YES
L0039713	0	0.79640E-07	542736.5	3753930.2	265.8	0.00	1.70	0.76	YES
L0039714	0	0.79640E-07	542732.8	3753930.2	265.8	0.00	1.70	0.76	YES
L0039715	0	0.79640E-07	542729.1	3753930.1	265.8	0.00	1.70	0.76	YES
L0039716	0	0.79640E-07	542725.5	3753930.1	265.8	0.00	1.70	0.76	YES
L0039717	0	0.79640E-07	542721.8	3753930.1	265.9	0.00	1.70	0.76	YES
L0039718	0	0.79640E-07	542718.2	3753930.1	265.9	0.00	1.70	0.76	YES
L0039719	0	0.79640E-07	542714.5	3753930.1	265.9	0.00	1.70	0.76	YES
L0039720	0	0.79640E-07	542710.9	3753930.1	265.9	0.00	1.70	0.76	YES
L0039721	0	0.79640E-07	542707.2	3753930.1	266.0	0.00	1.70	0.76	YES
L0039722	0	0.79640E-07	542703.5	3753930.1	266.0	0.00	1.70	0.76	YES
L0039723	0	0.79640E-07	542699.9	3753930.1	266.0	0.00	1.70	0.76	YES
L0039724	0	0.79640E-07	542696.2	3753930.1	266.1	0.00	1.70	0.76	YES
L0039725	0	0.79640E-07	542692.6	3753930.1	266.1	0.00	1.70	0.76	YES
L0039726	0	0.79640E-07	542688.9	3753930.1	266.1	0.00	1.70	0.76	YES
L0039727	0	0.79640E-07	542685.2	3753930.0	266.1	0.00	1.70	0.76	YES
L0039728	0	0.79640E-07	542681.6	3753930.0	266.2	0.00	1.70	0.76	YES
L0039729	0	0.79640E-07	542677.9	3753930.0	266.2	0.00	1.70	0.76	YES
L0039730	0	0.79640E-07	542674.3	3753930.0	266.2	0.00	1.70	0.76	YES
L0039731	0	0.79640E-07	542670.6	3753930.0	266.2	0.00	1.70	0.76	YES
L0039732	0	0.79640E-07	542667.0	3753930.0	266.2	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER	EMISSION RATE	BASE	RELEASE	INIT.	INIT.	URBAN	EMISSION RATE

SOURCE ID	PART. CATS.	(GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE	SCALAR VARY BY
L0039733	0	0.79640E-07	542663.3	3753930.0	266.2	0.00	1.70	0.76	YES	
L0039734	0	0.79640E-07	542659.6	3753930.0	266.3	0.00	1.70	0.76	YES	
L0039735	0	0.79640E-07	542656.0	3753930.0	266.3	0.00	1.70	0.76	YES	
L0039736	0	0.79640E-07	542652.3	3753930.0	266.3	0.00	1.70	0.76	YES	
L0039737	0	0.79640E-07	542648.7	3753930.0	266.4	0.00	1.70	0.76	YES	
L0039738	0	0.79640E-07	542645.0	3753930.0	266.4	0.00	1.70	0.76	YES	
L0039739	0	0.79640E-07	542641.4	3753929.9	266.4	0.00	1.70	0.76	YES	
L0039740	0	0.79640E-07	542637.7	3753929.9	266.4	0.00	1.70	0.76	YES	
L0039741	0	0.79640E-07	542634.0	3753929.9	266.5	0.00	1.70	0.76	YES	
L0039742	0	0.79640E-07	542630.4	3753929.9	266.5	0.00	1.70	0.76	YES	
L0039743	0	0.79640E-07	542626.7	3753929.9	266.5	0.00	1.70	0.76	YES	
L0039744	0	0.79640E-07	542623.1	3753929.9	266.5	0.00	1.70	0.76	YES	
L0039745	0	0.79640E-07	542619.4	3753929.9	266.5	0.00	1.70	0.76	YES	
L0039746	0	0.79640E-07	542615.8	3753929.9	266.6	0.00	1.70	0.76	YES	
L0039747	0	0.79640E-07	542612.1	3753929.9	266.6	0.00	1.70	0.76	YES	
L0039748	0	0.79640E-07	542608.4	3753929.9	266.6	0.00	1.70	0.76	YES	
L0039749	0	0.79640E-07	542604.8	3753929.9	266.6	0.00	1.70	0.76	YES	
L0039750	0	0.79640E-07	542601.1	3753929.9	266.6	0.00	1.70	0.76	YES	
L0039751	0	0.79640E-07	542597.5	3753929.8	266.6	0.00	1.70	0.76	YES	
L0039752	0	0.79640E-07	542593.8	3753929.8	266.7	0.00	1.70	0.76	YES	
L0039753	0	0.79640E-07	542590.2	3753929.8	266.7	0.00	1.70	0.76	YES	
L0039754	0	0.79640E-07	542586.5	3753929.8	266.7	0.00	1.70	0.76	YES	
L0039755	0	0.79640E-07	542582.8	3753929.8	266.7	0.00	1.70	0.76	YES	
L0039756	0	0.79640E-07	542579.2	3753929.8	266.7	0.00	1.70	0.76	YES	
L0039757	0	0.79640E-07	542575.5	3753929.8	266.8	0.00	1.70	0.76	YES	
L0039758	0	0.79640E-07	542571.9	3753929.8	266.8	0.00	1.70	0.76	YES	
L0039759	0	0.79640E-07	542568.2	3753929.8	266.8	0.00	1.70	0.76	YES	
L0039760	0	0.79640E-07	542564.5	3753929.8	266.8	0.00	1.70	0.76	YES	
L0039761	0	0.79640E-07	542560.9	3753929.8	266.9	0.00	1.70	0.76	YES	
L0039762	0	0.79640E-07	542557.2	3753929.8	266.9	0.00	1.70	0.76	YES	
L0039763	0	0.79640E-07	542553.6	3753929.7	266.9	0.00	1.70	0.76	YES	
L0039764	0	0.79640E-07	542549.9	3753929.7	266.9	0.00	1.70	0.76	YES	
L0039765	0	0.79640E-07	542546.3	3753929.7	266.9	0.00	1.70	0.76	YES	
L0039766	0	0.79640E-07	542542.6	3753929.7	266.9	0.00	1.70	0.76	YES	
L0039767	0	0.79640E-07	542538.9	3753929.7	266.9	0.00	1.70	0.76	YES	
L0039768	0	0.79640E-07	542535.3	3753929.7	267.0	0.00	1.70	0.76	YES	
L0039769	0	0.79640E-07	542531.6	3753929.7	267.0	0.00	1.70	0.76	YES	
L0039770	0	0.79640E-07	542528.0	3753929.7	267.0	0.00	1.70	0.76	YES	
L0039771	0	0.79640E-07	542524.3	3753929.7	267.0	0.00	1.70	0.76	YES	
L0039772	0	0.79640E-07	542520.7	3753929.7	267.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0039773	0	0.79640E-07	542517.0	3753929.7	267.0	0.00	1.70	0.76	YES	
L0039774	0	0.79640E-07	542513.3	3753929.7	267.1	0.00	1.70	0.76	YES	
L0039775	0	0.79640E-07	542509.7	3753929.6	267.1	0.00	1.70	0.76	YES	
L0039776	0	0.79640E-07	542506.0	3753929.6	267.1	0.00	1.70	0.76	YES	
L0039777	0	0.79640E-07	542502.4	3753929.6	267.1	0.00	1.70	0.76	YES	
L0039778	0	0.79640E-07	542498.7	3753929.6	267.1	0.00	1.70	0.76	YES	
L0039779	0	0.79640E-07	542495.1	3753929.6	267.1	0.00	1.70	0.76	YES	
L0039780	0	0.79640E-07	542491.4	3753929.6	267.2	0.00	1.70	0.76	YES	
L0039781	0	0.79640E-07	542487.7	3753929.6	267.2	0.00	1.70	0.76	YES	
L0039782	0	0.79640E-07	542484.1	3753929.6	267.2	0.00	1.70	0.76	YES	
L0039783	0	0.79640E-07	542480.4	3753929.6	267.2	0.00	1.70	0.76	YES	
L0039784	0	0.79640E-07	542476.8	3753929.6	267.2	0.00	1.70	0.76	YES	
L0039785	0	0.79640E-07	542473.1	3753929.6	267.2	0.00	1.70	0.76	YES	
L0039786	0	0.79640E-07	542469.5	3753929.5	267.3	0.00	1.70	0.76	YES	
L0039787	0	0.79640E-07	542465.8	3753929.5	267.3	0.00	1.70	0.76	YES	
L0039788	0	0.79640E-07	542462.1	3753929.5	267.3	0.00	1.70	0.76	YES	
L0039789	0	0.79640E-07	542458.5	3753929.5	267.3	0.00	1.70	0.76	YES	
L0039790	0	0.79640E-07	542454.8	3753929.5	267.3	0.00	1.70	0.76	YES	
L0039791	0	0.79640E-07	542451.2	3753929.5	267.4	0.00	1.70	0.76	YES	
L0039792	0	0.79640E-07	542447.5	3753929.5	267.4	0.00	1.70	0.76	YES	
L0039793	0	0.79640E-07	542443.8	3753929.5	267.4	0.00	1.70	0.76	YES	
L0039794	0	0.79640E-07	542440.2	3753929.5	267.4	0.00	1.70	0.76	YES	
L0039795	0	0.79640E-07	542436.5	3753929.5	267.4	0.00	1.70	0.76	YES	
L0039796	0	0.79640E-07	542432.9	3753929.5	267.4	0.00	1.70	0.76	YES	
L0039797	0	0.79640E-07	542429.2	3753929.5	267.5	0.00	1.70	0.76	YES	
L0039798	0	0.79640E-07	542425.6	3753929.4	267.5	0.00	1.70	0.76	YES	
L0039799	0	0.79640E-07	542421.9	3753929.4	267.5	0.00	1.70	0.76	YES	
L0039800	0	0.79640E-07	542418.2	3753929.4	267.5	0.00	1.70	0.76	YES	
L0039801	0	0.79640E-07	542414.6	3753929.4	267.5	0.00	1.70	0.76	YES	
L0039802	0	0.79640E-07	542410.9	3753929.4	267.5	0.00	1.70	0.76	YES	
L0039803	0	0.79640E-07	542407.3	3753929.4	267.6	0.00	1.70	0.76	YES	
L0039804	0	0.79640E-07	542403.6	3753929.4	267.6	0.00	1.70	0.76	YES	
L0039805	0	0.79640E-07	542400.0	3753929.4	267.6	0.00	1.70	0.76	YES	
L0039806	0	0.79640E-07	542396.3	3753929.4	267.6	0.00	1.70	0.76	YES	
L0039807	0	0.79640E-07	542392.6	3753929.4	267.6	0.00	1.70	0.76	YES	
L0039808	0	0.79640E-07	542389.0	3753929.4	267.7	0.00	1.70	0.76	YES	
L0039809	0	0.79640E-07	542385.3	3753929.4	267.7	0.00	1.70	0.76	YES	
L0039810	0	0.79640E-07	542381.7	3753929.3	267.7	0.00	1.70	0.76	YES	
L0039811	0	0.79640E-07	542378.0	3753929.3	267.7	0.00	1.70	0.76	YES	
L0039812	0	0.79640E-07	542374.4	3753929.3	267.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0039813	0	0.79640E-07	542370.7	3753929.3	267.8	0.00	1.70	0.76	YES	
L0039814	0	0.79640E-07	542367.0	3753929.3	267.8	0.00	1.70	0.76	YES	
L0039815	0	0.79640E-07	542363.4	3753929.3	267.8	0.00	1.70	0.76	YES	
L0039816	0	0.79640E-07	542359.7	3753929.3	267.8	0.00	1.70	0.76	YES	
L0039817	0	0.79640E-07	542356.1	3753929.3	267.8	0.00	1.70	0.76	YES	
L0039818	0	0.79640E-07	542352.4	3753929.3	267.9	0.00	1.70	0.76	YES	
L0039819	0	0.79640E-07	542348.7	3753929.3	267.9	0.00	1.70	0.76	YES	
L0039820	0	0.79640E-07	542345.1	3753929.3	267.9	0.00	1.70	0.76	YES	
L0039821	0	0.79640E-07	542341.4	3753929.3	267.9	0.00	1.70	0.76	YES	
L0039822	0	0.79640E-07	542337.8	3753929.2	267.9	0.00	1.70	0.76	YES	
L0039823	0	0.79640E-07	542334.1	3753929.2	267.9	0.00	1.70	0.76	YES	
L0039824	0	0.79640E-07	542330.5	3753929.2	268.0	0.00	1.70	0.76	YES	
L0039825	0	0.79640E-07	542326.8	3753929.2	268.0	0.00	1.70	0.76	YES	
L0039826	0	0.79640E-07	542323.1	3753929.2	268.0	0.00	1.70	0.76	YES	
L0039827	0	0.79640E-07	542319.5	3753929.2	268.0	0.00	1.70	0.76	YES	
L0039828	0	0.79640E-07	542315.8	3753929.2	268.1	0.00	1.70	0.76	YES	
L0039829	0	0.79640E-07	542312.2	3753929.2	268.1	0.00	1.70	0.76	YES	
L0039830	0	0.79640E-07	542308.5	3753929.2	268.1	0.00	1.70	0.76	YES	
L0039831	0	0.79640E-07	542304.9	3753929.2	268.1	0.00	1.70	0.76	YES	
L0039832	0	0.79640E-07	542301.2	3753929.2	268.1	0.00	1.70	0.76	YES	
L0039833	0	0.79640E-07	542297.5	3753929.2	268.1	0.00	1.70	0.76	YES	
L0039834	0	0.79640E-07	542293.9	3753929.1	268.2	0.00	1.70	0.76	YES	
L0039835	0	0.79640E-07	542290.2	3753929.1	268.2	0.00	1.70	0.76	YES	
L0039836	0	0.79640E-07	542286.6	3753929.1	268.2	0.00	1.70	0.76	YES	
L0039837	0	0.79640E-07	542282.9	3753929.1	268.2	0.00	1.70	0.76	YES	
L0039838	0	0.79640E-07	542279.3	3753929.1	268.2	0.00	1.70	0.76	YES	
L0039839	0	0.79640E-07	542275.6	3753929.1	268.2	0.00	1.70	0.76	YES	
L0039840	0	0.79640E-07	542271.9	3753929.1	268.3	0.00	1.70	0.76	YES	
L0039841	0	0.79640E-07	542268.3	3753929.1	268.3	0.00	1.70	0.76	YES	
L0039842	0	0.79640E-07	542264.6	3753929.1	268.3	0.00	1.70	0.76	YES	
L0039843	0	0.79640E-07	542261.0	3753929.1	268.3	0.00	1.70	0.76	YES	
L0039844	0	0.79640E-07	542257.3	3753929.1	268.4	0.00	1.70	0.76	YES	
L0039845	0	0.79640E-07	542253.7	3753929.1	268.4	0.00	1.70	0.76	YES	
L0039846	0	0.79640E-07	542250.0	3753929.0	268.4	0.00	1.70	0.76	YES	
L0039847	0	0.79640E-07	542246.3	3753929.0	268.4	0.00	1.70	0.76	YES	
L0039848	0	0.79640E-07	542242.7	3753929.0	268.4	0.00	1.70	0.76	YES	
L0039849	0	0.79640E-07	542239.0	3753929.0	268.5	0.00	1.70	0.76	YES	
L0039850	0	0.79640E-07	542235.4	3753929.0	268.5	0.00	1.70	0.76	YES	
L0039851	0	0.79640E-07	542231.7	3753929.0	268.5	0.00	1.70	0.76	YES	
L0039852	0	0.79640E-07	542228.0	3753929.0	268.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0039853	0	0.79640E-07	542224.4	3753929.0	268.6	0.00	1.70	0.76	YES	
L0039854	0	0.79640E-07	542220.7	3753929.0	268.6	0.00	1.70	0.76	YES	
L0039855	0	0.79640E-07	542217.1	3753929.0	268.6	0.00	1.70	0.76	YES	
L0039856	0	0.79640E-07	542213.4	3753929.0	268.6	0.00	1.70	0.76	YES	
L0039857	0	0.79640E-07	542209.8	3753928.9	268.6	0.00	1.70	0.76	YES	
L0039858	0	0.79640E-07	542206.1	3753928.9	268.6	0.00	1.70	0.76	YES	
L0039859	0	0.79640E-07	542202.4	3753928.9	268.6	0.00	1.70	0.76	YES	
L0039860	0	0.79640E-07	542198.8	3753928.9	268.6	0.00	1.70	0.76	YES	
L0039861	0	0.79640E-07	542195.1	3753928.9	268.7	0.00	1.70	0.76	YES	
L0039862	0	0.79640E-07	542191.5	3753928.9	268.7	0.00	1.70	0.76	YES	
L0039863	0	0.79640E-07	542187.8	3753928.9	268.7	0.00	1.70	0.76	YES	
L0039864	0	0.79640E-07	542184.2	3753928.9	268.7	0.00	1.70	0.76	YES	
L0039865	0	0.79640E-07	542180.5	3753928.9	268.7	0.00	1.70	0.76	YES	
L0039866	0	0.79640E-07	542176.8	3753928.9	268.7	0.00	1.70	0.76	YES	
L0039867	0	0.79640E-07	542173.2	3753928.9	268.7	0.00	1.70	0.76	YES	
L0039868	0	0.79640E-07	542169.5	3753928.9	268.7	0.00	1.70	0.76	YES	
L0039869	0	0.79640E-07	542165.9	3753928.8	268.7	0.00	1.70	0.76	YES	
L0039870	0	0.79640E-07	542162.2	3753928.8	268.7	0.00	1.70	0.76	YES	
L0039871	0	0.79640E-07	542158.6	3753928.8	268.7	0.00	1.70	0.76	YES	
L0039872	0	0.79640E-07	542154.9	3753928.8	268.8	0.00	1.70	0.76	YES	
L0039873	0	0.79640E-07	542151.2	3753928.8	268.8	0.00	1.70	0.76	YES	
L0039874	0	0.79640E-07	542147.6	3753928.8	268.8	0.00	1.70	0.76	YES	
L0039875	0	0.79640E-07	542143.9	3753928.8	268.8	0.00	1.70	0.76	YES	
L0039876	0	0.79640E-07	542140.3	3753928.8	268.8	0.00	1.70	0.76	YES	
L0039877	0	0.79640E-07	542136.6	3753928.8	268.8	0.00	1.70	0.76	YES	
L0039878	0	0.79640E-07	542133.0	3753928.8	268.8	0.00	1.70	0.76	YES	
L0039879	0	0.79640E-07	542129.3	3753928.8	268.8	0.00	1.70	0.76	YES	
L0039880	0	0.79640E-07	542125.6	3753928.8	268.8	0.00	1.70	0.76	YES	
L0039881	0	0.79640E-07	542122.0	3753928.7	268.8	0.00	1.70	0.76	YES	
L0039882	0	0.79640E-07	542118.3	3753928.7	268.9	0.00	1.70	0.76	YES	
L0039883	0	0.79640E-07	542114.7	3753928.7	268.9	0.00	1.70	0.76	YES	
L0039884	0	0.79640E-07	542111.0	3753928.7	268.9	0.00	1.70	0.76	YES	
L0039885	0	0.79640E-07	542107.3	3753928.7	268.9	0.00	1.70	0.76	YES	
L0039886	0	0.79640E-07	542103.7	3753928.7	268.9	0.00	1.70	0.76	YES	
L0039887	0	0.79640E-07	542100.0	3753928.7	268.9	0.00	1.70	0.76	YES	
L0039888	0	0.79640E-07	542096.4	3753928.7	268.9	0.00	1.70	0.76	YES	
L0039889	0	0.79640E-07	542092.7	3753928.7	269.0	0.00	1.70	0.76	YES	
L0039890	0	0.79640E-07	542089.1	3753928.7	269.0	0.00	1.70	0.76	YES	

L0039891	0	0.79640E-07	542085.4	3753928.7	269.0	0.00	1.70	0.76	YES	
L0039892	0	0.79640E-07	542081.7	3753928.7	269.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0039893	0	0.79640E-07	542078.1	3753928.6	269.1	0.00	1.70	0.76	YES	
L0039894	0	0.79640E-07	542074.4	3753928.6	269.1	0.00	1.70	0.76	YES	
L0039895	0	0.79640E-07	542070.8	3753928.6	269.1	0.00	1.70	0.76	YES	
L0039896	0	0.79640E-07	542067.1	3753928.6	269.1	0.00	1.70	0.76	YES	
L0039897	0	0.79640E-07	542063.5	3753928.6	269.2	0.00	1.70	0.76	YES	
L0039898	0	0.79640E-07	542059.8	3753928.6	269.2	0.00	1.70	0.76	YES	
L0039899	0	0.79640E-07	542056.1	3753928.6	269.2	0.00	1.70	0.76	YES	
L0039900	0	0.79640E-07	542052.5	3753928.6	269.3	0.00	1.70	0.76	YES	
L0039901	0	0.79640E-07	542048.8	3753928.6	269.3	0.00	1.70	0.76	YES	
L0039902	0	0.79640E-07	542045.2	3753928.6	269.3	0.00	1.70	0.76	YES	
L0039903	0	0.79640E-07	542041.5	3753928.6	269.4	0.00	1.70	0.76	YES	
L0039904	0	0.79640E-07	542037.9	3753928.6	269.4	0.00	1.70	0.76	YES	
L0039905	0	0.63180E-07	542037.5	3753923.3	269.3	0.00	1.70	0.76	YES	
L0039906	0	0.63180E-07	542037.4	3753919.7	269.2	0.00	1.70	0.76	YES	
L0039907	0	0.63180E-07	542037.4	3753916.0	269.1	0.00	1.70	0.76	YES	
L0039908	0	0.63180E-07	542037.4	3753912.4	269.0	0.00	1.70	0.76	YES	
L0039909	0	0.63180E-07	542037.3	3753908.7	268.9	0.00	1.70	0.76	YES	
L0039910	0	0.63180E-07	542037.3	3753905.0	268.8	0.00	1.70	0.76	YES	
L0039911	0	0.63180E-07	542037.3	3753901.4	268.7	0.00	1.70	0.76	YES	
L0039912	0	0.63180E-07	542037.2	3753897.7	268.6	0.00	1.70	0.76	YES	
L0039913	0	0.63180E-07	542037.2	3753894.1	268.6	0.00	1.70	0.76	YES	
L0039914	0	0.63180E-07	542037.2	3753890.4	268.5	0.00	1.70	0.76	YES	
L0039915	0	0.63180E-07	542037.1	3753886.8	268.4	0.00	1.70	0.76	YES	
L0039916	0	0.63180E-07	542037.1	3753883.1	268.3	0.00	1.70	0.76	YES	
L0039917	0	0.63180E-07	542037.1	3753879.4	268.2	0.00	1.70	0.76	YES	
L0039918	0	0.63180E-07	542037.0	3753875.8	268.1	0.00	1.70	0.76	YES	
L0039919	0	0.63180E-07	542037.0	3753872.1	268.0	0.00	1.70	0.76	YES	
L0039920	0	0.63180E-07	542037.0	3753868.5	267.9	0.00	1.70	0.76	YES	
L0039921	0	0.63180E-07	542036.9	3753864.8	267.8	0.00	1.70	0.76	YES	
L0039922	0	0.63180E-07	542036.9	3753861.2	267.7	0.00	1.70	0.76	YES	
L0039923	0	0.63180E-07	542036.9	3753857.5	267.6	0.00	1.70	0.76	YES	
L0039924	0	0.63180E-07	542036.8	3753853.8	267.5	0.00	1.70	0.76	YES	
L0039925	0	0.63180E-07	542036.8	3753850.2	267.4	0.00	1.70	0.76	YES	
L0039926	0	0.63180E-07	542036.8	3753846.5	267.3	0.00	1.70	0.76	YES	
L0039927	0	0.63180E-07	542036.7	3753842.9	267.2	0.00	1.70	0.76	YES	

L0039928	0	0.63180E-07	542036.7	3753839.2	267.1	0.00	1.70	0.76	YES	
L0039929	0	0.63180E-07	542036.7	3753835.6	267.0	0.00	1.70	0.76	YES	
L0039930	0	0.63180E-07	542036.6	3753831.9	266.9	0.00	1.70	0.76	YES	
L0039931	0	0.63180E-07	542036.6	3753828.2	266.8	0.00	1.70	0.76	YES	
L0039932	0	0.63180E-07	542036.6	3753824.6	266.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0039933	0	0.63180E-07	542036.6	3753820.9	266.6	0.00	1.70	0.76	YES	
L0039934	0	0.63180E-07	542036.5	3753817.3	266.5	0.00	1.70	0.76	YES	
L0039935	0	0.63180E-07	542036.5	3753813.6	266.4	0.00	1.70	0.76	YES	
L0039936	0	0.63180E-07	542036.5	3753809.9	266.3	0.00	1.70	0.76	YES	
L0039937	0	0.63180E-07	542036.4	3753806.3	266.2	0.00	1.70	0.76	YES	
L0039938	0	0.63180E-07	542036.4	3753802.6	266.1	0.00	1.70	0.76	YES	
L0039939	0	0.63180E-07	542036.4	3753799.0	266.0	0.00	1.70	0.76	YES	
L0039940	0	0.63180E-07	542036.3	3753795.3	265.9	0.00	1.70	0.76	YES	
L0039941	0	0.63180E-07	542036.3	3753791.7	265.8	0.00	1.70	0.76	YES	
L0039942	0	0.63180E-07	542036.3	3753788.0	265.7	0.00	1.70	0.76	YES	
L0039943	0	0.63180E-07	542036.2	3753784.3	265.6	0.00	1.70	0.76	YES	
L0039944	0	0.63180E-07	542036.2	3753780.7	265.5	0.00	1.70	0.76	YES	
L0039945	0	0.63180E-07	542036.2	3753777.0	265.4	0.00	1.70	0.76	YES	
L0039946	0	0.63180E-07	542036.1	3753773.4	265.4	0.00	1.70	0.76	YES	
L0039947	0	0.63180E-07	542036.1	3753769.7	265.3	0.00	1.70	0.76	YES	
L0039948	0	0.63180E-07	542036.1	3753766.1	265.2	0.00	1.70	0.76	YES	
L0039949	0	0.63180E-07	542036.0	3753762.4	265.1	0.00	1.70	0.76	YES	
L0039950	0	0.63180E-07	542036.0	3753758.7	265.0	0.00	1.70	0.76	YES	
L0039951	0	0.63180E-07	542036.0	3753755.1	264.9	0.00	1.70	0.76	YES	
L0039952	0	0.63180E-07	542035.9	3753751.4	264.8	0.00	1.70	0.76	YES	
L0039953	0	0.63180E-07	542035.9	3753747.8	264.7	0.00	1.70	0.76	YES	
L0039954	0	0.63180E-07	542035.9	3753744.1	264.6	0.00	1.70	0.76	YES	
L0039955	0	0.63180E-07	542035.8	3753740.5	264.6	0.00	1.70	0.76	YES	
L0039956	0	0.63180E-07	542035.8	3753736.8	264.5	0.00	1.70	0.76	YES	
L0039957	0	0.63180E-07	542035.8	3753733.1	264.4	0.00	1.70	0.76	YES	
L0039958	0	0.63180E-07	542035.7	3753729.5	264.3	0.00	1.70	0.76	YES	
L0039959	0	0.63180E-07	542035.7	3753725.8	264.2	0.00	1.70	0.76	YES	
L0039960	0	0.63180E-07	542035.7	3753722.2	264.1	0.00	1.70	0.76	YES	
L0039961	0	0.63180E-07	542035.7	3753718.5	264.0	0.00	1.70	0.76	YES	
L0039962	0	0.63180E-07	542035.6	3753714.9	263.9	0.00	1.70	0.76	YES	
L0039963	0	0.63180E-07	542035.6	3753711.2	263.8	0.00	1.70	0.76	YES	
L0039964	0	0.63180E-07	542035.6	3753707.5	263.7	0.00	1.70	0.76	YES	

L0039965	0	0.63180E-07	542035.5	3753703.9	263.6	0.00	1.70	0.76	YES	
L0039966	0	0.63180E-07	542035.5	3753700.2	263.6	0.00	1.70	0.76	YES	
L0039967	0	0.63180E-07	542035.5	3753696.6	263.5	0.00	1.70	0.76	YES	
L0039968	0	0.63180E-07	542035.4	3753692.9	263.4	0.00	1.70	0.76	YES	
L0039969	0	0.63180E-07	542035.4	3753689.3	263.3	0.00	1.70	0.76	YES	
L0039970	0	0.63180E-07	542035.4	3753685.6	263.2	0.00	1.70	0.76	YES	
L0039971	0	0.63180E-07	542035.3	3753681.9	263.1	0.00	1.70	0.76	YES	
L0039972	0	0.63180E-07	542035.3	3753678.3	263.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0039973	0	0.63180E-07	542035.3	3753674.6	262.9	0.00	1.70	0.76	YES	
L0039974	0	0.63180E-07	542035.2	3753671.0	262.9	0.00	1.70	0.76	YES	
L0039975	0	0.63180E-07	542035.2	3753667.3	262.8	0.00	1.70	0.76	YES	
L0039976	0	0.63180E-07	542035.2	3753663.7	262.7	0.00	1.70	0.76	YES	
L0039977	0	0.63180E-07	542035.1	3753660.0	262.6	0.00	1.70	0.76	YES	
L0039978	0	0.63180E-07	542035.1	3753656.3	262.5	0.00	1.70	0.76	YES	
L0039979	0	0.63180E-07	542035.1	3753652.7	262.5	0.00	1.70	0.76	YES	
L0039980	0	0.63180E-07	542035.0	3753649.0	262.4	0.00	1.70	0.76	YES	
L0039981	0	0.63180E-07	542035.0	3753645.4	262.3	0.00	1.70	0.76	YES	
L0039982	0	0.63180E-07	542035.0	3753641.7	262.2	0.00	1.70	0.76	YES	
L0039983	0	0.63180E-07	542034.9	3753638.0	262.2	0.00	1.70	0.76	YES	
L0039984	0	0.63180E-07	542034.9	3753634.4	262.1	0.00	1.70	0.76	YES	
L0039985	0	0.63180E-07	542034.9	3753630.7	262.0	0.00	1.70	0.76	YES	
L0039986	0	0.63180E-07	542034.9	3753627.1	261.9	0.00	1.70	0.76	YES	
L0039987	0	0.63180E-07	542034.8	3753623.4	261.9	0.00	1.70	0.76	YES	
L0039988	0	0.63180E-07	542034.8	3753619.8	261.8	0.00	1.70	0.76	YES	
L0039989	0	0.63180E-07	542034.8	3753616.1	261.7	0.00	1.70	0.76	YES	
L0039990	0	0.63180E-07	542034.7	3753612.4	261.6	0.00	1.70	0.76	YES	
L0039991	0	0.63180E-07	542034.7	3753608.8	261.6	0.00	1.70	0.76	YES	
L0039992	0	0.63180E-07	542034.7	3753605.1	261.5	0.00	1.70	0.76	YES	
L0039993	0	0.63180E-07	542034.6	3753601.5	261.4	0.00	1.70	0.76	YES	
L0039994	0	0.63180E-07	542034.6	3753597.8	261.3	0.00	1.70	0.76	YES	
L0039995	0	0.63180E-07	542034.6	3753594.2	261.2	0.00	1.70	0.76	YES	
L0039996	0	0.63180E-07	542034.5	3753590.5	261.2	0.00	1.70	0.76	YES	
L0039997	0	0.63180E-07	542034.5	3753586.8	261.1	0.00	1.70	0.76	YES	
L0039998	0	0.63180E-07	542034.5	3753583.2	261.0	0.00	1.70	0.76	YES	
L0039999	0	0.63180E-07	542034.4	3753579.5	260.9	0.00	1.70	0.76	YES	
L0040000	0	0.63180E-07	542034.4	3753575.9	260.8	0.00	1.70	0.76	YES	
L0040001	0	0.63180E-07	542034.4	3753572.2	260.8	0.00	1.70	0.76	YES	

L0040002	0	0.63180E-07	542034.3	3753568.6	260.7	0.00	1.70	0.76	YES	
L0040003	0	0.63180E-07	542034.3	3753564.9	260.6	0.00	1.70	0.76	YES	
L0040004	0	0.63180E-07	542034.3	3753561.2	260.5	0.00	1.70	0.76	YES	
L0040005	0	0.63180E-07	542034.2	3753557.6	260.4	0.00	1.70	0.76	YES	
L0040006	0	0.63180E-07	542034.2	3753553.9	260.4	0.00	1.70	0.76	YES	
L0040007	0	0.63180E-07	542034.2	3753550.3	260.3	0.00	1.70	0.76	YES	
L0040008	0	0.63180E-07	542034.1	3753546.6	260.2	0.00	1.70	0.76	YES	
L0040009	0	0.63180E-07	542034.1	3753543.0	260.1	0.00	1.70	0.76	YES	
L0040010	0	0.63180E-07	542034.1	3753539.3	260.1	0.00	1.70	0.76	YES	
L0040011	0	0.63180E-07	542034.0	3753535.6	260.0	0.00	1.70	0.76	YES	
L0040012	0	0.63180E-07	542034.0	3753532.0	259.9	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0040013	0	0.63180E-07	542034.0	3753528.3	259.8	0.00	1.70	0.76	YES	
L0040014	0	0.63180E-07	542034.0	3753524.7	259.7	0.00	1.70	0.76	YES	
L0040015	0	0.63180E-07	542033.9	3753521.0	259.6	0.00	1.70	0.76	YES	
L0040016	0	0.63180E-07	542033.9	3753517.4	259.6	0.00	1.70	0.76	YES	
L0040017	0	0.63180E-07	542033.9	3753513.7	259.5	0.00	1.70	0.76	YES	
L0040018	0	0.63180E-07	542033.8	3753510.0	259.4	0.00	1.70	0.76	YES	
L0040019	0	0.63180E-07	542033.8	3753506.4	259.3	0.00	1.70	0.76	YES	
L0040020	0	0.63180E-07	542033.8	3753502.7	259.2	0.00	1.70	0.76	YES	
L0040021	0	0.63180E-07	542033.7	3753499.1	259.2	0.00	1.70	0.76	YES	
L0040022	0	0.63180E-07	542033.7	3753495.4	259.1	0.00	1.70	0.76	YES	
L0040023	0	0.63180E-07	542033.7	3753491.8	259.0	0.00	1.70	0.76	YES	
L0040024	0	0.63180E-07	542033.6	3753488.1	258.9	0.00	1.70	0.76	YES	
L0040025	0	0.63180E-07	542033.6	3753484.4	258.8	0.00	1.70	0.76	YES	
L0040026	0	0.63180E-07	542033.6	3753480.8	258.8	0.00	1.70	0.76	YES	
L0040027	0	0.63180E-07	542033.5	3753477.1	258.7	0.00	1.70	0.76	YES	
L0040028	0	0.63180E-07	542033.5	3753473.5	258.6	0.00	1.70	0.76	YES	
L0040029	0	0.63180E-07	542033.5	3753469.8	258.5	0.00	1.70	0.76	YES	
L0040030	0	0.63180E-07	542033.4	3753466.1	258.4	0.00	1.70	0.76	YES	
L0040031	0	0.63180E-07	542033.4	3753462.5	258.3	0.00	1.70	0.76	YES	
L0040032	0	0.63180E-07	542033.4	3753458.8	258.2	0.00	1.70	0.76	YES	
L0040033	0	0.63180E-07	542033.3	3753455.2	258.2	0.00	1.70	0.76	YES	
L0040034	0	0.63180E-07	542033.3	3753451.5	258.1	0.00	1.70	0.76	YES	
L0040035	0	0.63180E-07	542033.3	3753447.9	258.0	0.00	1.70	0.76	YES	
L0040036	0	0.63180E-07	542033.2	3753444.2	257.9	0.00	1.70	0.76	YES	
L0040037	0	0.63180E-07	542033.2	3753440.5	257.8	0.00	1.70	0.76	YES	
L0040038	0	0.63180E-07	542033.2	3753436.9	257.7	0.00	1.70	0.76	YES	

L0040039	0	0.63180E-07	542033.1	3753433.2	257.6	0.00	1.70	0.76	YES	
L0040040	0	0.63180E-07	542033.1	3753429.6	257.5	0.00	1.70	0.76	YES	
L0040041	0	0.63180E-07	542033.1	3753425.9	257.4	0.00	1.70	0.76	YES	
L0040042	0	0.63180E-07	542033.1	3753422.3	257.4	0.00	1.70	0.76	YES	
L0040043	0	0.63180E-07	542033.0	3753418.6	257.3	0.00	1.70	0.76	YES	
L0040044	0	0.63180E-07	542033.0	3753414.9	257.2	0.00	1.70	0.76	YES	
L0040045	0	0.63180E-07	542033.0	3753411.3	257.1	0.00	1.70	0.76	YES	
L0040046	0	0.63180E-07	542032.9	3753407.6	257.0	0.00	1.70	0.76	YES	
L0040047	0	0.63180E-07	542032.9	3753404.0	256.9	0.00	1.70	0.76	YES	
L0040048	0	0.63180E-07	542032.9	3753400.3	256.8	0.00	1.70	0.76	YES	
L0040049	0	0.63180E-07	542032.8	3753396.7	256.7	0.00	1.70	0.76	YES	
L0040050	0	0.63180E-07	542032.8	3753393.0	256.6	0.00	1.70	0.76	YES	
L0040051	0	0.63180E-07	542032.8	3753389.3	256.5	0.00	1.70	0.76	YES	
L0040052	0	0.63180E-07	542032.7	3753385.7	256.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0040053	0	0.63180E-07	542032.7	3753382.0	256.4	0.00	1.70	0.76	YES	
L0040054	0	0.63180E-07	542032.7	3753378.4	256.3	0.00	1.70	0.76	YES	
L0040055	0	0.63180E-07	542032.6	3753374.7	256.2	0.00	1.70	0.76	YES	
L0040056	0	0.63180E-07	542032.6	3753371.1	256.1	0.00	1.70	0.76	YES	
L0040057	0	0.63180E-07	542032.6	3753367.4	256.1	0.00	1.70	0.76	YES	
L0040058	0	0.63180E-07	542032.5	3753363.7	256.0	0.00	1.70	0.76	YES	
L0040059	0	0.63180E-07	542032.5	3753360.1	255.9	0.00	1.70	0.76	YES	
L0040060	0	0.63180E-07	542032.5	3753356.4	255.8	0.00	1.70	0.76	YES	
L0040061	0	0.63180E-07	542032.4	3753352.8	255.7	0.00	1.70	0.76	YES	
L0040062	0	0.63180E-07	542032.4	3753349.1	255.6	0.00	1.70	0.76	YES	
L0040063	0	0.63180E-07	542032.4	3753345.5	255.5	0.00	1.70	0.76	YES	
L0040064	0	0.63180E-07	542032.3	3753341.8	255.4	0.00	1.70	0.76	YES	
L0040065	0	0.63180E-07	542032.3	3753338.1	255.3	0.00	1.70	0.76	YES	
L0040066	0	0.63180E-07	542032.3	3753334.5	255.2	0.00	1.70	0.76	YES	
L0040067	0	0.63180E-07	542032.2	3753330.8	255.1	0.00	1.70	0.76	YES	
L0040068	0	0.63180E-07	542032.2	3753327.2	255.0	0.00	1.70	0.76	YES	
L0040069	0	0.63180E-07	542032.2	3753323.5	254.9	0.00	1.70	0.76	YES	
L0040070	0	0.63180E-07	542032.2	3753319.8	254.8	0.00	1.70	0.76	YES	
L0040071	0	0.63180E-07	542032.1	3753316.2	254.7	0.00	1.70	0.76	YES	
L0040072	0	0.63180E-07	542032.1	3753312.5	254.6	0.00	1.70	0.76	YES	
L0040073	0	0.63180E-07	542032.1	3753308.9	254.5	0.00	1.70	0.76	YES	
L0040074	0	0.63180E-07	542032.0	3753305.2	254.4	0.00	1.70	0.76	YES	
L0040075	0	0.63180E-07	542032.0	3753301.6	254.2	0.00	1.70	0.76	YES	

L0040076	0	0.63180E-07	542032.0	3753297.9	254.2	0.00	1.70	0.76	YES	
L0040077	0	0.63180E-07	542031.9	3753294.2	254.1	0.00	1.70	0.76	YES	
L0040078	0	0.63180E-07	542031.9	3753290.6	254.0	0.00	1.70	0.76	YES	
L0040079	0	0.63180E-07	542031.9	3753286.9	253.9	0.00	1.70	0.76	YES	
L0040080	0	0.63180E-07	542031.8	3753283.3	253.8	0.00	1.70	0.76	YES	
L0040081	0	0.63180E-07	542031.8	3753279.6	253.7	0.00	1.70	0.76	YES	
L0040082	0	0.63180E-07	542031.8	3753276.0	253.6	0.00	1.70	0.76	YES	
L0040083	0	0.63180E-07	542031.7	3753272.3	253.5	0.00	1.70	0.76	YES	
L0040084	0	0.63180E-07	542031.7	3753268.6	253.5	0.00	1.70	0.76	YES	
L0040085	0	0.63180E-07	542031.7	3753265.0	253.4	0.00	1.70	0.76	YES	
L0040086	0	0.63180E-07	542031.6	3753261.3	253.3	0.00	1.70	0.76	YES	
L0040087	0	0.63180E-07	542031.6	3753257.7	253.2	0.00	1.70	0.76	YES	
L0040088	0	0.63180E-07	542031.6	3753254.0	253.1	0.00	1.70	0.76	YES	
L0040089	0	0.63180E-07	542031.5	3753250.4	253.1	0.00	1.70	0.76	YES	
L0040090	0	0.63180E-07	542031.5	3753246.7	253.0	0.00	1.70	0.76	YES	
L0040091	0	0.63180E-07	542031.5	3753243.0	252.9	0.00	1.70	0.76	YES	
L0040092	0	0.63180E-07	542031.4	3753239.4	252.8	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0040093	0	0.63180E-07	542031.4	3753235.7	252.7	0.00	1.70	0.76	YES	
L0040094	0	0.63180E-07	542031.4	3753232.1	252.7	0.00	1.70	0.76	YES	
L0040095	0	0.63180E-07	542031.4	3753228.4	252.6	0.00	1.70	0.76	YES	
L0040096	0	0.63180E-07	542031.3	3753224.8	252.5	0.00	1.70	0.76	YES	
L0040097	0	0.63180E-07	542031.3	3753221.1	252.4	0.00	1.70	0.76	YES	
L0040098	0	0.63180E-07	542031.3	3753217.4	252.4	0.00	1.70	0.76	YES	
L0040099	0	0.63180E-07	542031.2	3753213.8	252.3	0.00	1.70	0.76	YES	
L0040100	0	0.63180E-07	542031.2	3753210.1	252.2	0.00	1.70	0.76	YES	
L0040101	0	0.63180E-07	542031.2	3753206.5	252.1	0.00	1.70	0.76	YES	
L0040102	0	0.63180E-07	542031.1	3753202.8	252.1	0.00	1.70	0.76	YES	
L0040103	0	0.63180E-07	542031.1	3753199.2	252.0	0.00	1.70	0.76	YES	
L0040104	0	0.63180E-07	542031.1	3753195.5	251.9	0.00	1.70	0.76	YES	
L0040105	0	0.63180E-07	542031.0	3753191.8	251.8	0.00	1.70	0.76	YES	
L0040106	0	0.63180E-07	542031.0	3753188.2	251.8	0.00	1.70	0.76	YES	
L0040107	0	0.63180E-07	542031.0	3753184.5	251.7	0.00	1.70	0.76	YES	
L0040108	0	0.63180E-07	542030.9	3753180.9	251.6	0.00	1.70	0.76	YES	
L0040109	0	0.63180E-07	542030.9	3753177.2	251.5	0.00	1.70	0.76	YES	
L0040110	0	0.63180E-07	542030.9	3753173.6	251.4	0.00	1.70	0.76	YES	
L0040111	0	0.63180E-07	542030.8	3753169.9	251.4	0.00	1.70	0.76	YES	
L0040112	0	0.63180E-07	542030.8	3753166.2	251.3	0.00	1.70	0.76	YES	

L0040113	0	0.63180E-07	542030.8	3753162.6	251.2	0.00	1.70	0.76	YES
L0040114	0	0.63180E-07	542030.7	3753158.9	251.1	0.00	1.70	0.76	YES
L0040115	0	0.63180E-07	542030.7	3753155.3	251.0	0.00	1.70	0.76	YES
L0040116	0	0.63180E-07	542030.7	3753151.6	250.9	0.00	1.70	0.76	YES
L0040117	0	0.63180E-07	542030.6	3753147.9	250.9	0.00	1.70	0.76	YES
L0040118	0	0.63180E-07	542030.6	3753144.3	250.8	0.00	1.70	0.76	YES
L0040119	0	0.63180E-07	542030.6	3753140.6	250.6	0.00	1.70	0.76	YES
L0040120	0	0.63180E-07	542030.5	3753137.0	250.5	0.00	1.70	0.76	YES
L0040121	0	0.63180E-07	542030.5	3753133.3	250.4	0.00	1.70	0.76	YES
L0040122	0	0.63180E-07	542030.5	3753129.7	250.3	0.00	1.70	0.76	YES
L0040123	0	0.63180E-07	542030.5	3753126.0	250.2	0.00	1.70	0.76	YES
L0040124	0	0.63180E-07	542030.4	3753122.3	250.1	0.00	1.70	0.76	YES
L0040777	0	0.15040E-06	543901.7	3755432.3	288.3	0.00	1.70	0.76	YES
L0040778	0	0.15040E-06	543905.4	3755432.3	288.3	0.00	1.70	0.76	YES
L0040779	0	0.15040E-06	543909.0	3755432.3	288.2	0.00	1.70	0.76	YES
L0040780	0	0.15040E-06	543912.7	3755432.3	288.2	0.00	1.70	0.76	YES
L0040781	0	0.15040E-06	543916.3	3755432.3	288.2	0.00	1.70	0.76	YES
L0040782	0	0.15040E-06	543920.0	3755432.3	288.1	0.00	1.70	0.76	YES
L0040783	0	0.15040E-06	543923.7	3755432.3	288.1	0.00	1.70	0.76	YES
L0040784	0	0.15040E-06	543927.3	3755432.3	288.1	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0040785	0	0.15040E-06	543931.0	3755432.3	288.0	0.00	1.70	0.76	YES	
L0040786	0	0.15040E-06	543934.6	3755432.3	288.0	0.00	1.70	0.76	YES	
L0040787	0	0.15040E-06	543938.3	3755432.3	287.9	0.00	1.70	0.76	YES	
L0040788	0	0.15040E-06	543941.9	3755432.3	287.9	0.00	1.70	0.76	YES	
L0040789	0	0.15040E-06	543945.6	3755432.3	287.9	0.00	1.70	0.76	YES	
L0040790	0	0.15040E-06	543949.3	3755432.3	287.8	0.00	1.70	0.76	YES	
L0040791	0	0.15040E-06	543952.9	3755432.3	287.8	0.00	1.70	0.76	YES	
L0040792	0	0.15040E-06	543956.6	3755432.3	287.8	0.00	1.70	0.76	YES	
L0040793	0	0.15040E-06	543960.2	3755432.3	287.7	0.00	1.70	0.76	YES	
L0040794	0	0.15040E-06	543963.9	3755432.3	287.7	0.00	1.70	0.76	YES	
L0040795	0	0.15040E-06	543967.5	3755432.3	287.7	0.00	1.70	0.76	YES	
L0040796	0	0.15040E-06	543971.2	3755432.3	287.7	0.00	1.70	0.76	YES	
L0040797	0	0.15040E-06	543974.9	3755432.3	287.7	0.00	1.70	0.76	YES	
L0040798	0	0.15040E-06	543978.5	3755432.3	287.7	0.00	1.70	0.76	YES	
L0040799	0	0.15040E-06	543982.2	3755432.3	287.7	0.00	1.70	0.76	YES	
L0040800	0	0.15040E-06	543985.8	3755432.3	287.7	0.00	1.70	0.76	YES	
L0040801	0	0.15040E-06	543989.5	3755432.3	287.7	0.00	1.70	0.76	YES	

L0040802	0	0.15040E-06	543993.2	3755432.3	287.7	0.00	1.70	0.76	YES
L0040803	0	0.15040E-06	543996.8	3755432.3	287.7	0.00	1.70	0.76	YES
L0040804	0	0.15040E-06	544000.5	3755432.3	287.7	0.00	1.70	0.76	YES
L0040805	0	0.15040E-06	544004.1	3755432.3	287.7	0.00	1.70	0.76	YES
L0040806	0	0.15040E-06	544007.8	3755432.3	287.7	0.00	1.70	0.76	YES
L0040807	0	0.15040E-06	544011.4	3755432.3	287.6	0.00	1.70	0.76	YES
L0040808	0	0.15040E-06	544015.1	3755432.3	287.6	0.00	1.70	0.76	YES
L0040809	0	0.15040E-06	544018.8	3755432.3	287.6	0.00	1.70	0.76	YES
L0040810	0	0.15040E-06	544022.4	3755432.3	287.6	0.00	1.70	0.76	YES
L0040811	0	0.15040E-06	544026.1	3755432.3	287.6	0.00	1.70	0.76	YES
L0040812	0	0.15040E-06	544029.7	3755432.3	287.6	0.00	1.70	0.76	YES
L0040813	0	0.15040E-06	544033.4	3755432.3	287.6	0.00	1.70	0.76	YES
L0040814	0	0.15040E-06	544037.0	3755432.3	287.6	0.00	1.70	0.76	YES
L0040815	0	0.15040E-06	544040.7	3755432.3	287.6	0.00	1.70	0.76	YES
L0040816	0	0.15040E-06	544044.4	3755432.3	287.6	0.00	1.70	0.76	YES
L0040817	0	0.15040E-06	544048.0	3755432.3	287.6	0.00	1.70	0.76	YES
L0040818	0	0.15040E-06	544051.7	3755432.3	287.6	0.00	1.70	0.76	YES
L0040819	0	0.15040E-06	544055.3	3755432.3	287.6	0.00	1.70	0.76	YES
L0040820	0	0.15040E-06	544059.0	3755432.3	287.6	0.00	1.70	0.76	YES
L0040821	0	0.15040E-06	544062.6	3755432.3	287.6	0.00	1.70	0.76	YES
L0040822	0	0.15040E-06	544066.3	3755432.3	287.6	0.00	1.70	0.76	YES
L0040823	0	0.15040E-06	544070.0	3755432.3	287.6	0.00	1.70	0.76	YES
L0040824	0	0.15040E-06	544073.6	3755432.3	287.6	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

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L0040825	0	0.15040E-06	544077.3	3755432.3	287.6	0.00	1.70	0.76	YES	
L0040826	0	0.15040E-06	544080.9	3755432.3	287.6	0.00	1.70	0.76	YES	
L0040827	0	0.15040E-06	544084.6	3755432.3	287.5	0.00	1.70	0.76	YES	
L0040828	0	0.15040E-06	544088.2	3755432.3	287.5	0.00	1.70	0.76	YES	
L0040829	0	0.15040E-06	544091.9	3755432.3	287.5	0.00	1.70	0.76	YES	
L0040830	0	0.15040E-06	544095.6	3755432.3	287.5	0.00	1.70	0.76	YES	
L0040831	0	0.15040E-06	544099.2	3755432.2	287.5	0.00	1.70	0.76	YES	
L0040832	0	0.15040E-06	544102.9	3755432.2	287.5	0.00	1.70	0.76	YES	
L0040833	0	0.15040E-06	544106.5	3755432.2	287.5	0.00	1.70	0.76	YES	
L0040834	0	0.15040E-06	544110.2	3755432.2	287.4	0.00	1.70	0.76	YES	
L0040835	0	0.15040E-06	544113.9	3755432.2	287.4	0.00	1.70	0.76	YES	
L0040836	0	0.15040E-06	544117.5	3755432.2	287.4	0.00	1.70	0.76	YES	
L0040837	0	0.15040E-06	544121.2	3755432.2	287.4	0.00	1.70	0.76	YES	
L0040838	0	0.15040E-06	544124.8	3755432.2	287.4	0.00	1.70	0.76	YES	

L0040839	0	0.15040E-06	544128.5	3755432.2	287.4	0.00	1.70	0.76	YES	
L0040840	0	0.15040E-06	544132.1	3755432.2	287.4	0.00	1.70	0.76	YES	
L0040841	0	0.15040E-06	544135.8	3755432.2	287.3	0.00	1.70	0.76	YES	
L0040842	0	0.15040E-06	544139.5	3755432.2	287.3	0.00	1.70	0.76	YES	
L0040843	0	0.15040E-06	544143.1	3755432.2	287.3	0.00	1.70	0.76	YES	
L0040844	0	0.15040E-06	544146.8	3755432.2	287.3	0.00	1.70	0.76	YES	
L0040845	0	0.15040E-06	544150.4	3755432.2	287.3	0.00	1.70	0.76	YES	
L0040846	0	0.15040E-06	544154.1	3755432.2	287.3	0.00	1.70	0.76	YES	
L0040847	0	0.15040E-06	544157.7	3755432.2	287.3	0.00	1.70	0.76	YES	
L0040848	0	0.15040E-06	544161.4	3755432.2	287.2	0.00	1.70	0.76	YES	
L0040849	0	0.15040E-06	544165.1	3755432.2	287.2	0.00	1.70	0.76	YES	
L0040850	0	0.15040E-06	544168.7	3755432.2	287.2	0.00	1.70	0.76	YES	
L0040851	0	0.15040E-06	544172.4	3755432.2	287.2	0.00	1.70	0.76	YES	
L0040852	0	0.15040E-06	544176.0	3755432.2	287.2	0.00	1.70	0.76	YES	
L0040853	0	0.15040E-06	544179.7	3755432.2	287.2	0.00	1.70	0.76	YES	
L0040854	0	0.15040E-06	544183.3	3755432.2	287.1	0.00	1.70	0.76	YES	
L0040855	0	0.15040E-06	544187.0	3755432.2	287.1	0.00	1.70	0.76	YES	
L0040856	0	0.15040E-06	544190.7	3755432.2	287.1	0.00	1.70	0.76	YES	
L0040857	0	0.15040E-06	544194.3	3755432.2	287.1	0.00	1.70	0.76	YES	
L0040858	0	0.15040E-06	544198.0	3755432.2	287.1	0.00	1.70	0.76	YES	
L0040859	0	0.15040E-06	544201.6	3755432.2	287.1	0.00	1.70	0.76	YES	
L0040860	0	0.15040E-06	544205.3	3755432.2	287.1	0.00	1.70	0.76	YES	
L0040861	0	0.15040E-06	544208.9	3755432.2	287.1	0.00	1.70	0.76	YES	
L0040862	0	0.15040E-06	544212.6	3755432.2	287.0	0.00	1.70	0.76	YES	
L0040863	0	0.15040E-06	544216.3	3755432.2	287.0	0.00	1.70	0.76	YES	
L0040864	0	0.15040E-06	544219.9	3755432.2	287.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0040865	0	0.15040E-06	544223.6	3755432.2	287.0	0.00	1.70	0.76	YES	
L0040866	0	0.15040E-06	544227.2	3755432.2	287.0	0.00	1.70	0.76	YES	
L0040867	0	0.15040E-06	544230.9	3755432.2	286.9	0.00	1.70	0.76	YES	
L0040868	0	0.15040E-06	544234.6	3755432.2	286.9	0.00	1.70	0.76	YES	
L0040869	0	0.15040E-06	544238.2	3755432.2	286.9	0.00	1.70	0.76	YES	
L0040870	0	0.15040E-06	544241.9	3755432.2	286.9	0.00	1.70	0.76	YES	
L0040871	0	0.15040E-06	544245.5	3755432.2	286.9	0.00	1.70	0.76	YES	
L0040872	0	0.15040E-06	544249.2	3755432.2	286.9	0.00	1.70	0.76	YES	
L0040873	0	0.15040E-06	544252.8	3755432.2	286.8	0.00	1.70	0.76	YES	
L0040874	0	0.15040E-06	544256.5	3755432.2	286.8	0.00	1.70	0.76	YES	
L0040875	0	0.15040E-06	544260.2	3755432.2	286.8	0.00	1.70	0.76	YES	

L0040876	0	0.15040E-06	544263.8	3755432.2	286.8	0.00	1.70	0.76	YES	
L0040877	0	0.15040E-06	544267.5	3755432.2	286.8	0.00	1.70	0.76	YES	
L0040878	0	0.15040E-06	544271.1	3755432.2	286.7	0.00	1.70	0.76	YES	
L0040879	0	0.15040E-06	544274.8	3755432.2	286.7	0.00	1.70	0.76	YES	
L0040880	0	0.15040E-06	544278.4	3755432.2	286.7	0.00	1.70	0.76	YES	
L0040881	0	0.15040E-06	544282.1	3755432.2	286.7	0.00	1.70	0.76	YES	
L0040882	0	0.15040E-06	544285.8	3755432.2	286.6	0.00	1.70	0.76	YES	
L0040883	0	0.15040E-06	544289.4	3755432.2	286.6	0.00	1.70	0.76	YES	
L0040884	0	0.15040E-06	544293.1	3755432.2	286.6	0.00	1.70	0.76	YES	
L0040885	0	0.15040E-06	544296.7	3755432.2	286.6	0.00	1.70	0.76	YES	
L0040886	0	0.15040E-06	544300.4	3755432.2	286.6	0.00	1.70	0.76	YES	
L0040887	0	0.15040E-06	544304.0	3755432.2	286.5	0.00	1.70	0.76	YES	
L0040888	0	0.15040E-06	544307.7	3755432.2	286.5	0.00	1.70	0.76	YES	
L0040889	0	0.15040E-06	544311.4	3755432.2	286.5	0.00	1.70	0.76	YES	
L0040890	0	0.15040E-06	544315.0	3755432.2	286.5	0.00	1.70	0.76	YES	
L0040891	0	0.15040E-06	544318.7	3755432.2	286.4	0.00	1.70	0.76	YES	
L0040892	0	0.15040E-06	544322.3	3755432.2	286.4	0.00	1.70	0.76	YES	
L0040893	0	0.15040E-06	544326.0	3755432.2	286.4	0.00	1.70	0.76	YES	
L0040894	0	0.15040E-06	544329.7	3755432.2	286.4	0.00	1.70	0.76	YES	
L0040895	0	0.15040E-06	544333.3	3755432.2	286.4	0.00	1.70	0.76	YES	
L0040896	0	0.15040E-06	544337.0	3755432.2	286.3	0.00	1.70	0.76	YES	
L0040897	0	0.15040E-06	544340.6	3755432.2	286.3	0.00	1.70	0.76	YES	
L0040898	0	0.15040E-06	544344.3	3755432.2	286.3	0.00	1.70	0.76	YES	
L0040899	0	0.15040E-06	544347.9	3755432.2	286.3	0.00	1.70	0.76	YES	
L0040900	0	0.15040E-06	544351.6	3755432.1	286.2	0.00	1.70	0.76	YES	
L0040901	0	0.15040E-06	544355.3	3755432.1	286.2	0.00	1.70	0.76	YES	
L0040902	0	0.15000E-06	543961.9	3755201.2	284.0	0.00	1.70	0.76	YES	
L0040903	0	0.15000E-06	543965.3	3755202.6	284.0	0.00	1.70	0.76	YES	
L0040904	0	0.15000E-06	543968.6	3755204.1	284.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0040905	0	0.15000E-06	543972.0	3755205.5	284.0	0.00	1.70	0.76	YES	
L0040906	0	0.15000E-06	543975.4	3755206.9	284.0	0.00	1.70	0.76	YES	
L0040907	0	0.15000E-06	543978.7	3755208.3	284.0	0.00	1.70	0.76	YES	
L0040908	0	0.15000E-06	543982.1	3755209.8	283.9	0.00	1.70	0.76	YES	
L0040909	0	0.15000E-06	543985.5	3755211.2	283.9	0.00	1.70	0.76	YES	
L0040910	0	0.15000E-06	543988.8	3755212.6	283.9	0.00	1.70	0.76	YES	
L0040911	0	0.15000E-06	543992.2	3755214.0	283.9	0.00	1.70	0.76	YES	
L0040912	0	0.15000E-06	543995.6	3755215.5	283.8	0.00	1.70	0.76	YES	

L0040913	0	0.15000E-06	543999.0	3755216.8	283.8	0.00	1.70	0.76	YES
L0040914	0	0.15000E-06	544002.6	3755217.5	283.7	0.00	1.70	0.76	YES
L0040915	0	0.15000E-06	544006.2	3755218.2	283.6	0.00	1.70	0.76	YES
L0040916	0	0.15000E-06	544009.7	3755218.9	283.5	0.00	1.70	0.76	YES
L0040917	0	0.15000E-06	544013.4	3755219.4	283.4	0.00	1.70	0.76	YES
L0040918	0	0.15000E-06	544017.0	3755219.4	283.4	0.00	1.70	0.76	YES
L0040919	0	0.15000E-06	544020.7	3755219.4	283.4	0.00	1.70	0.76	YES
L0040920	0	0.15000E-06	544024.3	3755219.4	283.3	0.00	1.70	0.76	YES
L0040921	0	0.15000E-06	544028.0	3755219.3	283.3	0.00	1.70	0.76	YES
L0040922	0	0.15000E-06	544031.6	3755219.3	283.2	0.00	1.70	0.76	YES
L0040923	0	0.15000E-06	544035.3	3755219.3	283.2	0.00	1.70	0.76	YES
L0040924	0	0.15000E-06	544039.0	3755219.3	283.2	0.00	1.70	0.76	YES
L0040925	0	0.15000E-06	544042.6	3755219.3	283.2	0.00	1.70	0.76	YES
L0040926	0	0.15000E-06	544046.3	3755219.3	283.2	0.00	1.70	0.76	YES
L0040927	0	0.15000E-06	544049.9	3755219.2	283.2	0.00	1.70	0.76	YES
L0040928	0	0.15000E-06	544053.6	3755219.2	283.2	0.00	1.70	0.76	YES
L0040929	0	0.15000E-06	544057.2	3755219.2	283.2	0.00	1.70	0.76	YES
L0040930	0	0.15000E-06	544060.9	3755219.2	283.2	0.00	1.70	0.76	YES
L0040931	0	0.15000E-06	544064.6	3755219.2	283.2	0.00	1.70	0.76	YES
L0040932	0	0.15000E-06	544068.2	3755219.1	283.2	0.00	1.70	0.76	YES
L0040933	0	0.15000E-06	544071.9	3755219.1	283.2	0.00	1.70	0.76	YES
L0040934	0	0.15000E-06	544075.5	3755219.1	283.2	0.00	1.70	0.76	YES
L0040935	0	0.15000E-06	544079.2	3755219.1	283.2	0.00	1.70	0.76	YES
L0040936	0	0.15000E-06	544082.8	3755219.1	283.2	0.00	1.70	0.76	YES
L0040937	0	0.15000E-06	544086.5	3755219.0	283.2	0.00	1.70	0.76	YES
L0040938	0	0.15000E-06	544090.2	3755219.0	283.2	0.00	1.70	0.76	YES
L0040939	0	0.15000E-06	544093.8	3755219.0	283.2	0.00	1.70	0.76	YES
L0040940	0	0.15000E-06	544097.5	3755219.0	283.2	0.00	1.70	0.76	YES
L0040941	0	0.15000E-06	544101.1	3755219.0	283.2	0.00	1.70	0.76	YES
L0040942	0	0.15000E-06	544104.8	3755219.0	283.2	0.00	1.70	0.76	YES
L0040943	0	0.15000E-06	544108.4	3755218.9	283.2	0.00	1.70	0.76	YES
L0040944	0	0.15000E-06	544112.1	3755218.9	283.2	0.00	1.70	0.76	YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0040945	0	0.15000E-06	544115.8	3755218.9	283.2	0.00	1.70	0.76	YES	
L0040946	0	0.15000E-06	544119.4	3755218.9	283.2	0.00	1.70	0.76	YES	
L0040947	0	0.15000E-06	544123.1	3755218.9	283.2	0.00	1.70	0.76	YES	
L0040948	0	0.15000E-06	544126.7	3755218.8	283.2	0.00	1.70	0.76	YES	
L0040949	0	0.15000E-06	544130.4	3755218.8	283.2	0.00	1.70	0.76	YES	

L0040950	0	0.15000E-06	544134.1	3755218.8	283.2	0.00	1.70	0.76	YES	
L0040951	0	0.15000E-06	544137.7	3755218.8	283.2	0.00	1.70	0.76	YES	
L0040952	0	0.15000E-06	544141.4	3755218.8	283.2	0.00	1.70	0.76	YES	
L0040953	0	0.15000E-06	544145.0	3755218.8	283.2	0.00	1.70	0.76	YES	
L0040954	0	0.15000E-06	544148.7	3755218.7	283.2	0.00	1.70	0.76	YES	
L0040955	0	0.15000E-06	544152.3	3755218.7	283.2	0.00	1.70	0.76	YES	
L0040956	0	0.15000E-06	544156.0	3755218.7	283.2	0.00	1.70	0.76	YES	
L0040957	0	0.15000E-06	544159.7	3755218.7	283.2	0.00	1.70	0.76	YES	
L0040958	0	0.15000E-06	544163.3	3755218.7	283.2	0.00	1.70	0.76	YES	
L0040959	0	0.15000E-06	544167.0	3755218.6	283.2	0.00	1.70	0.76	YES	
L0040960	0	0.15000E-06	544170.6	3755218.6	283.2	0.00	1.70	0.76	YES	
L0040961	0	0.15000E-06	544174.3	3755218.6	283.2	0.00	1.70	0.76	YES	
L0040962	0	0.15000E-06	544177.9	3755218.6	283.2	0.00	1.70	0.76	YES	
L0040963	0	0.15000E-06	544181.6	3755218.6	283.2	0.00	1.70	0.76	YES	
L0040964	0	0.15000E-06	544185.3	3755218.5	283.2	0.00	1.70	0.76	YES	
L0040965	0	0.15000E-06	544188.9	3755218.5	283.2	0.00	1.70	0.76	YES	
L0040966	0	0.15000E-06	544192.6	3755218.5	283.2	0.00	1.70	0.76	YES	
L0040967	0	0.15000E-06	544196.2	3755218.5	283.2	0.00	1.70	0.76	YES	
L0040968	0	0.15000E-06	544199.9	3755218.5	283.2	0.00	1.70	0.76	YES	
L0040969	0	0.15000E-06	544203.5	3755218.5	283.2	0.00	1.70	0.76	YES	
L0040970	0	0.15000E-06	544207.2	3755218.4	283.2	0.00	1.70	0.76	YES	
L0040971	0	0.15000E-06	544210.9	3755218.4	283.2	0.00	1.70	0.76	YES	
L0040972	0	0.15000E-06	544214.5	3755218.4	283.2	0.00	1.70	0.76	YES	
L0040973	0	0.15000E-06	544218.2	3755218.4	283.2	0.00	1.70	0.76	YES	
L0040974	0	0.15000E-06	544221.8	3755218.4	283.1	0.00	1.70	0.76	YES	
L0040975	0	0.15000E-06	544225.5	3755218.3	283.1	0.00	1.70	0.76	YES	
L0040976	0	0.15000E-06	544229.1	3755218.3	283.1	0.00	1.70	0.76	YES	
L0040977	0	0.15000E-06	544232.8	3755218.3	283.1	0.00	1.70	0.76	YES	
L0040978	0	0.15000E-06	544236.5	3755218.3	283.1	0.00	1.70	0.76	YES	
L0040979	0	0.15000E-06	544240.1	3755218.3	283.1	0.00	1.70	0.76	YES	
L0040980	0	0.15000E-06	544243.8	3755218.3	283.1	0.00	1.70	0.76	YES	
L0040981	0	0.15000E-06	544247.4	3755218.2	283.1	0.00	1.70	0.76	YES	
L0040982	0	0.15000E-06	544251.1	3755218.2	283.0	0.00	1.70	0.76	YES	
L0040983	0	0.15000E-06	544254.8	3755218.2	283.0	0.00	1.70	0.76	YES	
L0040984	0	0.15000E-06	544258.4	3755218.2	283.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0040985	0	0.15000E-06	544262.1	3755218.2	283.0	0.00	1.70	0.76	YES	
L0040986	0	0.15000E-06	544265.7	3755218.1	283.0	0.00	1.70	0.76	YES	

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L0040987        0   0.15000E-06  544269.4 3755218.1   283.0     0.00     1.70     0.76     YES
L0040988        0   0.15000E-06  544273.0 3755218.1   283.0     0.00     1.70     0.76     YES
L0040989        0   0.15000E-06  544276.7 3755218.1   283.0     0.00     1.70     0.76     YES
L0040990        0   0.15000E-06  544280.4 3755218.1   282.9     0.00     1.70     0.76     YES
L0040991        0   0.15000E-06  544284.0 3755218.0   282.9     0.00     1.70     0.76     YES
L0040992        0   0.15000E-06  544287.7 3755218.0   282.9     0.00     1.70     0.76     YES
L0040993        0   0.15000E-06  544291.3 3755218.0   282.9     0.00     1.70     0.76     YES
L0040994        0   0.15000E-06  544295.0 3755218.0   282.9     0.00     1.70     0.76     YES
L0040995        0   0.15000E-06  544298.6 3755218.0   282.9     0.00     1.70     0.76     YES
L0040996        0   0.15000E-06  544302.3 3755218.0   282.9     0.00     1.70     0.76     YES
L0040997        0   0.15000E-06  544306.0 3755217.9   282.9     0.00     1.70     0.76     YES
L0040998        0   0.15000E-06  544309.6 3755217.9   282.8     0.00     1.70     0.76     YES
L0040999        0   0.15000E-06  544313.3 3755217.9   282.8     0.00     1.70     0.76     YES
L0041000        0   0.15000E-06  544316.9 3755217.9   282.8     0.00     1.70     0.76     YES
L0041001        0   0.15000E-06  544320.6 3755217.9   282.8     0.00     1.70     0.76     YES
L0041002        0   0.15000E-06  544324.2 3755217.8   282.8     0.00     1.70     0.76     YES
L0041003        0   0.15000E-06  544327.9 3755217.8   282.8     0.00     1.70     0.76     YES
L0041004        0   0.15000E-06  544331.6 3755217.8   282.7     0.00     1.70     0.76     YES
L0041005        0   0.15000E-06  544335.2 3755217.8   282.7     0.00     1.70     0.76     YES
L0041006        0   0.15000E-06  544338.9 3755217.8   282.7     0.00     1.70     0.76     YES
L0041007        0   0.15000E-06  544342.5 3755217.8   282.7     0.00     1.70     0.76     YES
L0041008        0   0.15000E-06  544346.2 3755217.7   282.7     0.00     1.70     0.76     YES
L0041009        0   0.15000E-06  544349.8 3755217.7   282.7     0.00     1.70     0.76     YES
L0041010        0   0.15000E-06  544353.5 3755217.7   282.7     0.00     1.70     0.76     YES
L0041011        0   0.15000E-06  544357.2 3755217.7   282.6     0.00     1.70     0.76     YES
L0041012        0   0.14930E-06  544102.6 3754969.5   279.0     0.00     1.70     0.76     YES
L0041013        0   0.14930E-06  544106.2 3754969.5   279.0     0.00     1.70     0.76     YES
L0041014        0   0.14930E-06  544109.9 3754969.5   279.0     0.00     1.70     0.76     YES
L0041015        0   0.14930E-06  544113.5 3754969.5   279.0     0.00     1.70     0.76     YES
L0041016        0   0.14930E-06  544117.2 3754969.5   279.0     0.00     1.70     0.76     YES
L0041017        0   0.14930E-06  544120.9 3754969.6   279.0     0.00     1.70     0.76     YES
L0041018        0   0.14930E-06  544124.5 3754969.6   279.0     0.00     1.70     0.76     YES
L0041019        0   0.14930E-06  544128.2 3754969.6   279.0     0.00     1.70     0.76     YES
L0041020        0   0.14930E-06  544131.8 3754969.6   279.0     0.00     1.70     0.76     YES
L0041021        0   0.14930E-06  544135.5 3754969.6   279.0     0.00     1.70     0.76     YES
L0041022        0   0.14930E-06  544139.1 3754969.6   279.0     0.00     1.70     0.76     YES
L0041023        0   0.14930E-06  544142.8 3754969.6   279.0     0.00     1.70     0.76     YES
L0041024        0   0.14930E-06  544146.5 3754969.6   278.9     0.00     1.70     0.76     YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY

L0041025	0	0.14930E-06	544150.1	3754969.6	278.9	0.00	1.70	0.76	YES
L0041026	0	0.14930E-06	544153.8	3754969.6	278.9	0.00	1.70	0.76	YES
L0041027	0	0.14930E-06	544157.4	3754969.6	278.9	0.00	1.70	0.76	YES
L0041028	0	0.14930E-06	544161.1	3754969.7	278.9	0.00	1.70	0.76	YES
L0041029	0	0.14930E-06	544164.7	3754969.7	278.9	0.00	1.70	0.76	YES
L0041030	0	0.14930E-06	544168.4	3754969.7	278.9	0.00	1.70	0.76	YES
L0041031	0	0.14930E-06	544172.1	3754969.7	278.9	0.00	1.70	0.76	YES
L0041032	0	0.14930E-06	544175.7	3754969.7	278.8	0.00	1.70	0.76	YES
L0041033	0	0.14930E-06	544179.4	3754969.7	278.8	0.00	1.70	0.76	YES
L0041034	0	0.14930E-06	544183.0	3754969.7	278.8	0.00	1.70	0.76	YES
L0041035	0	0.14930E-06	544186.7	3754969.7	278.8	0.00	1.70	0.76	YES
L0041036	0	0.14930E-06	544190.3	3754969.7	278.8	0.00	1.70	0.76	YES
L0041037	0	0.14930E-06	544194.0	3754969.7	278.8	0.00	1.70	0.76	YES
L0041038	0	0.14930E-06	544197.7	3754969.7	278.8	0.00	1.70	0.76	YES
L0041039	0	0.14930E-06	544201.3	3754969.8	278.7	0.00	1.70	0.76	YES
L0041040	0	0.14930E-06	544205.0	3754969.8	278.7	0.00	1.70	0.76	YES
L0041041	0	0.14930E-06	544208.6	3754969.8	278.7	0.00	1.70	0.76	YES
L0041042	0	0.14930E-06	544212.3	3754969.8	278.7	0.00	1.70	0.76	YES
L0041043	0	0.14930E-06	544216.0	3754969.8	278.7	0.00	1.70	0.76	YES
L0041044	0	0.14930E-06	544219.6	3754969.8	278.7	0.00	1.70	0.76	YES
L0041045	0	0.14930E-06	544223.3	3754969.8	278.7	0.00	1.70	0.76	YES
L0041046	0	0.14930E-06	544226.9	3754969.8	278.7	0.00	1.70	0.76	YES
L0041047	0	0.14930E-06	544230.6	3754969.8	278.6	0.00	1.70	0.76	YES
L0041048	0	0.14930E-06	544234.2	3754969.8	278.6	0.00	1.70	0.76	YES
L0041049	0	0.14930E-06	544237.9	3754969.8	278.6	0.00	1.70	0.76	YES
L0041050	0	0.14930E-06	544241.6	3754969.9	278.6	0.00	1.70	0.76	YES
L0041051	0	0.14930E-06	544245.2	3754969.9	278.6	0.00	1.70	0.76	YES
L0041052	0	0.14930E-06	544248.9	3754969.9	278.6	0.00	1.70	0.76	YES
L0041053	0	0.14930E-06	544252.5	3754969.9	278.5	0.00	1.70	0.76	YES
L0041054	0	0.14930E-06	544256.2	3754969.9	278.5	0.00	1.70	0.76	YES
L0041055	0	0.14930E-06	544259.8	3754969.9	278.5	0.00	1.70	0.76	YES
L0041056	0	0.14930E-06	544263.5	3754969.9	278.5	0.00	1.70	0.76	YES
L0041057	0	0.14930E-06	544267.2	3754969.9	278.5	0.00	1.70	0.76	YES
L0041058	0	0.14930E-06	544270.8	3754969.9	278.4	0.00	1.70	0.76	YES
L0041059	0	0.14930E-06	544274.5	3754969.9	278.4	0.00	1.70	0.76	YES
L0041060	0	0.14930E-06	544278.1	3754969.9	278.4	0.00	1.70	0.76	YES
L0041061	0	0.14930E-06	544281.8	3754970.0	278.4	0.00	1.70	0.76	YES
L0041062	0	0.14930E-06	544285.4	3754970.0	278.4	0.00	1.70	0.76	YES
L0041063	0	0.14930E-06	544289.1	3754970.0	278.4	0.00	1.70	0.76	YES
L0041064	0	0.14930E-06	544292.8	3754970.0	278.3	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER	EMISSION RATE	BASE	RELEASE	INIT.	INIT.	URBAN	EMISSION RATE

SOURCE ID	PART. CATS.	(GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE	SCALAR VARY BY
L0041065	0	0.14930E-06	544296.4	3754970.0	278.3	0.00	1.70	0.76	YES	
L0041066	0	0.14930E-06	544300.1	3754970.0	278.3	0.00	1.70	0.76	YES	
L0041067	0	0.14930E-06	544303.7	3754970.0	278.3	0.00	1.70	0.76	YES	
L0041068	0	0.14930E-06	544307.4	3754970.0	278.2	0.00	1.70	0.76	YES	
L0041069	0	0.14930E-06	544311.0	3754970.0	278.2	0.00	1.70	0.76	YES	
L0041070	0	0.14930E-06	544314.7	3754970.0	278.2	0.00	1.70	0.76	YES	
L0041071	0	0.14930E-06	544318.4	3754970.0	278.2	0.00	1.70	0.76	YES	
L0041072	0	0.14930E-06	544322.0	3754970.1	278.2	0.00	1.70	0.76	YES	
L0041073	0	0.14930E-06	544325.7	3754970.1	278.2	0.00	1.70	0.76	YES	
L0041074	0	0.14930E-06	544329.3	3754970.1	278.2	0.00	1.70	0.76	YES	
L0041075	0	0.14930E-06	544333.0	3754970.1	278.1	0.00	1.70	0.76	YES	
L0041076	0	0.14930E-06	544336.7	3754970.1	278.1	0.00	1.70	0.76	YES	
L0041077	0	0.14930E-06	544340.3	3754970.1	278.1	0.00	1.70	0.76	YES	
L0041078	0	0.14930E-06	544344.0	3754970.1	278.1	0.00	1.70	0.76	YES	
L0041079	0	0.14930E-06	544347.6	3754970.1	278.1	0.00	1.70	0.76	YES	
L0041080	0	0.14930E-06	544351.3	3754970.1	278.1	0.00	1.70	0.76	YES	
L0041081	0	0.14930E-06	544354.9	3754970.1	278.0	0.00	1.70	0.76	YES	
L0041082	0	0.14930E-06	544358.6	3754970.1	278.0	0.00	1.70	0.76	YES	
L0041981	0	0.63320E-07	543688.1	3755636.9	294.1	0.00	1.70	0.76	YES	
L0041982	0	0.63320E-07	543688.1	3755640.6	294.2	0.00	1.70	0.76	YES	
L0041983	0	0.63320E-07	543688.1	3755644.2	294.2	0.00	1.70	0.76	YES	
L0041984	0	0.63320E-07	543688.1	3755647.9	294.3	0.00	1.70	0.76	YES	
L0041985	0	0.63320E-07	543688.1	3755651.5	294.4	0.00	1.70	0.76	YES	
L0041986	0	0.63320E-07	543688.1	3755655.2	294.5	0.00	1.70	0.76	YES	
L0041987	0	0.63320E-07	543688.1	3755658.9	294.6	0.00	1.70	0.76	YES	
L0041988	0	0.63320E-07	543688.2	3755662.5	294.6	0.00	1.70	0.76	YES	
L0041989	0	0.63320E-07	543688.2	3755666.2	294.7	0.00	1.70	0.76	YES	
L0041990	0	0.63320E-07	543688.2	3755669.8	294.8	0.00	1.70	0.76	YES	
L0041991	0	0.63320E-07	543688.2	3755673.5	294.9	0.00	1.70	0.76	YES	
L0041992	0	0.63320E-07	543688.2	3755677.1	294.9	0.00	1.70	0.76	YES	
L0041993	0	0.63320E-07	543688.2	3755680.8	295.0	0.00	1.70	0.76	YES	
L0041994	0	0.63320E-07	543688.2	3755684.5	295.1	0.00	1.70	0.76	YES	
L0041995	0	0.63320E-07	543688.2	3755688.1	295.2	0.00	1.70	0.76	YES	
L0041996	0	0.63320E-07	543688.2	3755691.8	295.2	0.00	1.70	0.76	YES	
L0041997	0	0.63320E-07	543688.3	3755695.4	295.3	0.00	1.70	0.76	YES	
L0041998	0	0.63320E-07	543688.3	3755699.1	295.4	0.00	1.70	0.76	YES	
L0041999	0	0.63320E-07	543688.3	3755702.8	295.5	0.00	1.70	0.76	YES	
L0042000	0	0.63320E-07	543688.3	3755706.4	295.6	0.00	1.70	0.76	YES	
L0042001	0	0.63320E-07	543688.3	3755710.1	295.6	0.00	1.70	0.76	YES	
L0042002	0	0.63320E-07	543688.3	3755713.7	295.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0042003	0	0.63320E-07	543688.3	3755717.4	295.8	0.00	1.70	0.76	YES	
L0042004	0	0.63320E-07	543688.3	3755721.0	295.9	0.00	1.70	0.76	YES	
L0042005	0	0.63320E-07	543688.3	3755724.7	295.9	0.00	1.70	0.76	YES	
L0042006	0	0.63320E-07	543688.4	3755728.4	296.0	0.00	1.70	0.76	YES	
L0042007	0	0.63320E-07	543688.4	3755732.0	296.1	0.00	1.70	0.76	YES	
L0042008	0	0.63320E-07	543688.4	3755735.7	296.2	0.00	1.70	0.76	YES	
L0042009	0	0.63320E-07	543688.4	3755739.3	296.3	0.00	1.70	0.76	YES	
L0042010	0	0.63320E-07	543688.4	3755743.0	296.3	0.00	1.70	0.76	YES	
L0042011	0	0.63320E-07	543688.4	3755746.6	296.4	0.00	1.70	0.76	YES	
L0042012	0	0.63320E-07	543688.4	3755750.3	296.5	0.00	1.70	0.76	YES	
L0042013	0	0.63320E-07	543688.4	3755754.0	296.6	0.00	1.70	0.76	YES	
L0042014	0	0.63320E-07	543688.4	3755757.6	296.6	0.00	1.70	0.76	YES	
L0042015	0	0.63320E-07	543688.5	3755761.3	296.7	0.00	1.70	0.76	YES	
L0042016	0	0.63320E-07	543688.5	3755764.9	296.8	0.00	1.70	0.76	YES	
L0042017	0	0.63320E-07	543688.5	3755768.6	296.9	0.00	1.70	0.76	YES	
L0042018	0	0.63320E-07	543688.5	3755772.2	296.9	0.00	1.70	0.76	YES	
L0042019	0	0.63320E-07	543688.5	3755775.9	297.0	0.00	1.70	0.76	YES	
L0042020	0	0.63320E-07	543688.5	3755779.6	297.1	0.00	1.70	0.76	YES	
L0042021	0	0.63320E-07	543688.5	3755783.2	297.2	0.00	1.70	0.76	YES	
L0042022	0	0.63320E-07	543688.5	3755786.9	297.2	0.00	1.70	0.76	YES	
L0042023	0	0.63320E-07	543688.5	3755790.5	297.3	0.00	1.70	0.76	YES	
L0042024	0	0.63320E-07	543688.6	3755794.2	297.4	0.00	1.70	0.76	YES	
L0042025	0	0.63320E-07	543688.6	3755797.8	297.4	0.00	1.70	0.76	YES	
L0042026	0	0.63320E-07	543688.6	3755801.5	297.5	0.00	1.70	0.76	YES	
L0042027	0	0.63320E-07	543688.6	3755805.2	297.6	0.00	1.70	0.76	YES	
L0042028	0	0.63320E-07	543688.6	3755808.8	297.7	0.00	1.70	0.76	YES	
L0042029	0	0.63320E-07	543688.6	3755812.5	297.7	0.00	1.70	0.76	YES	
L0042030	0	0.63320E-07	543688.6	3755816.1	297.8	0.00	1.70	0.76	YES	
L0042031	0	0.63320E-07	543688.6	3755819.8	297.9	0.00	1.70	0.76	YES	
L0042032	0	0.63320E-07	543688.6	3755823.5	297.9	0.00	1.70	0.76	YES	
L0042033	0	0.63320E-07	543688.7	3755827.1	298.0	0.00	1.70	0.76	YES	
L0042034	0	0.63320E-07	543688.7	3755830.8	298.1	0.00	1.70	0.76	YES	
L0042035	0	0.63320E-07	543688.7	3755834.4	298.2	0.00	1.70	0.76	YES	
L0042036	0	0.63320E-07	543688.7	3755838.1	298.2	0.00	1.70	0.76	YES	
L0042037	0	0.63320E-07	543688.7	3755841.7	298.3	0.00	1.70	0.76	YES	
L0042038	0	0.63320E-07	543688.7	3755845.4	298.4	0.00	1.70	0.76	YES	
L0042039	0	0.63320E-07	543688.7	3755849.1	298.5	0.00	1.70	0.76	YES	
L0042040	0	0.63320E-07	543688.7	3755852.7	298.5	0.00	1.70	0.76	YES	
L0042041	0	0.63320E-07	543688.7	3755856.4	298.6	0.00	1.70	0.76	YES	
L0042042	0	0.63320E-07	543688.8	3755860.0	298.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0042043	0	0.63320E-07	543688.8	3755863.7	298.8	0.00	1.70	0.76	YES	
L0042044	0	0.63320E-07	543688.8	3755867.3	298.8	0.00	1.70	0.76	YES	
L0042045	0	0.63320E-07	543688.8	3755871.0	298.9	0.00	1.70	0.76	YES	
L0042046	0	0.63320E-07	543688.8	3755874.7	299.0	0.00	1.70	0.76	YES	
L0042047	0	0.63320E-07	543688.8	3755878.3	299.1	0.00	1.70	0.76	YES	
L0042048	0	0.63320E-07	543688.8	3755882.0	299.1	0.00	1.70	0.76	YES	
L0042049	0	0.63320E-07	543688.8	3755885.6	299.2	0.00	1.70	0.76	YES	
L0042050	0	0.63320E-07	543688.8	3755889.3	299.3	0.00	1.70	0.76	YES	
L0042051	0	0.63320E-07	543688.9	3755892.9	299.4	0.00	1.70	0.76	YES	
L0042052	0	0.63320E-07	543688.9	3755896.6	299.4	0.00	1.70	0.76	YES	
L0042053	0	0.63320E-07	543688.9	3755900.3	299.5	0.00	1.70	0.76	YES	
L0042054	0	0.63320E-07	543688.9	3755903.9	299.6	0.00	1.70	0.76	YES	
L0042055	0	0.63320E-07	543688.9	3755907.6	299.7	0.00	1.70	0.76	YES	
L0042056	0	0.63320E-07	543688.9	3755911.2	299.7	0.00	1.70	0.76	YES	
L0042057	0	0.63320E-07	543688.9	3755914.9	299.8	0.00	1.70	0.76	YES	
L0042058	0	0.63320E-07	543688.9	3755918.5	299.9	0.00	1.70	0.76	YES	
L0042059	0	0.63320E-07	543688.9	3755922.2	299.9	0.00	1.70	0.76	YES	
L0042060	0	0.63320E-07	543689.0	3755925.9	300.0	0.00	1.70	0.76	YES	
L0042061	0	0.63320E-07	543689.0	3755929.5	300.1	0.00	1.70	0.76	YES	
L0042062	0	0.63320E-07	543689.0	3755933.2	300.2	0.00	1.70	0.76	YES	
L0042063	0	0.63320E-07	543689.0	3755936.8	300.2	0.00	1.70	0.76	YES	
L0042064	0	0.63320E-07	543689.0	3755940.5	300.3	0.00	1.70	0.76	YES	
L0042065	0	0.63320E-07	543689.0	3755944.2	300.4	0.00	1.70	0.76	YES	
L0042066	0	0.63320E-07	543689.0	3755947.8	300.4	0.00	1.70	0.76	YES	
L0042067	0	0.63320E-07	543689.0	3755951.5	300.5	0.00	1.70	0.76	YES	
L0042068	0	0.63320E-07	543689.0	3755955.1	300.6	0.00	1.70	0.76	YES	
L0042069	0	0.63320E-07	543689.1	3755958.8	300.6	0.00	1.70	0.76	YES	
L0042070	0	0.63320E-07	543689.1	3755962.4	300.7	0.00	1.70	0.76	YES	
L0042071	0	0.63320E-07	543689.1	3755966.1	300.8	0.00	1.70	0.76	YES	
L0042072	0	0.63320E-07	543689.1	3755969.8	300.8	0.00	1.70	0.76	YES	
L0042073	0	0.63320E-07	543689.1	3755973.4	300.9	0.00	1.70	0.76	YES	
L0042074	0	0.63320E-07	543689.1	3755977.1	301.0	0.00	1.70	0.76	YES	
L0042075	0	0.63320E-07	543689.1	3755980.7	301.0	0.00	1.70	0.76	YES	
L0042076	0	0.63320E-07	543689.1	3755984.4	301.1	0.00	1.70	0.76	YES	
L0042077	0	0.63320E-07	543689.1	3755988.0	301.2	0.00	1.70	0.76	YES	
L0042078	0	0.63320E-07	543689.2	3755991.7	301.2	0.00	1.70	0.76	YES	
L0042079	0	0.63320E-07	543689.2	3755995.4	301.3	0.00	1.70	0.76	YES	
L0042080	0	0.63320E-07	543689.2	3755999.0	301.4	0.00	1.70	0.76	YES	
L0042081	0	0.63320E-07	543689.2	3756002.7	301.4	0.00	1.70	0.76	YES	
L0042082	0	0.63320E-07	543689.2	3756006.3	301.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0042083	0	0.63320E-07	543689.2	3756010.0	301.6	0.00	1.70	0.76	YES	
L0042084	0	0.63320E-07	543689.2	3756013.6	301.6	0.00	1.70	0.76	YES	
L0042085	0	0.63320E-07	543689.2	3756017.3	301.7	0.00	1.70	0.76	YES	
L0042086	0	0.63320E-07	543689.2	3756021.0	301.8	0.00	1.70	0.76	YES	
L0042087	0	0.63320E-07	543689.3	3756024.6	301.8	0.00	1.70	0.76	YES	
L0042088	0	0.63320E-07	543689.3	3756028.3	301.9	0.00	1.70	0.76	YES	
L0042089	0	0.63320E-07	543689.3	3756031.9	302.0	0.00	1.70	0.76	YES	
L0042090	0	0.63320E-07	543689.3	3756035.6	302.0	0.00	1.70	0.76	YES	
L0042091	0	0.63320E-07	543689.3	3756039.2	302.1	0.00	1.70	0.76	YES	
L0042092	0	0.63320E-07	543689.3	3756042.9	302.2	0.00	1.70	0.76	YES	
L0042093	0	0.63320E-07	543689.3	3756046.6	302.2	0.00	1.70	0.76	YES	
L0042094	0	0.63320E-07	543689.3	3756050.2	302.3	0.00	1.70	0.76	YES	
L0042095	0	0.63320E-07	543689.3	3756053.9	302.4	0.00	1.70	0.76	YES	
L0042096	0	0.63320E-07	543689.4	3756057.5	302.4	0.00	1.70	0.76	YES	
L0042097	0	0.63320E-07	543689.4	3756061.2	302.5	0.00	1.70	0.76	YES	
L0042098	0	0.63320E-07	543689.4	3756064.9	302.6	0.00	1.70	0.76	YES	
L0042099	0	0.63320E-07	543689.4	3756068.5	302.7	0.00	1.70	0.76	YES	
L0042100	0	0.63320E-07	543689.4	3756072.2	302.7	0.00	1.70	0.76	YES	
L0042101	0	0.63320E-07	543689.4	3756075.8	302.8	0.00	1.70	0.76	YES	
L0042102	0	0.63320E-07	543689.4	3756079.5	302.9	0.00	1.70	0.76	YES	
L0042103	0	0.63320E-07	543689.4	3756083.1	302.9	0.00	1.70	0.76	YES	
L0042104	0	0.63320E-07	543689.4	3756086.8	303.0	0.00	1.70	0.76	YES	
L0042105	0	0.63320E-07	543689.5	3756090.5	303.1	0.00	1.70	0.76	YES	
L0042106	0	0.63320E-07	543689.5	3756094.1	303.1	0.00	1.70	0.76	YES	
L0042107	0	0.63320E-07	543689.5	3756097.8	303.2	0.00	1.70	0.76	YES	
L0042108	0	0.63320E-07	543689.5	3756101.4	303.3	0.00	1.70	0.76	YES	
L0042109	0	0.63320E-07	543689.5	3756105.1	303.4	0.00	1.70	0.76	YES	
L0042110	0	0.63320E-07	543689.5	3756108.7	303.4	0.00	1.70	0.76	YES	
L0042111	0	0.63320E-07	543689.5	3756112.4	303.5	0.00	1.70	0.76	YES	
L0042112	0	0.63320E-07	543689.5	3756116.1	303.6	0.00	1.70	0.76	YES	
L0042113	0	0.63320E-07	543689.5	3756119.7	303.6	0.00	1.70	0.76	YES	
L0042114	0	0.63320E-07	543689.6	3756123.4	303.7	0.00	1.70	0.76	YES	
L0042115	0	0.63320E-07	543689.6	3756127.0	303.8	0.00	1.70	0.76	YES	
L0042116	0	0.63320E-07	543689.6	3756130.7	303.9	0.00	1.70	0.76	YES	
L0042117	0	0.63320E-07	543689.6	3756134.3	303.9	0.00	1.70	0.76	YES	
L0042118	0	0.63320E-07	543689.6	3756138.0	304.0	0.00	1.70	0.76	YES	
L0042119	0	0.63320E-07	543689.6	3756141.7	304.1	0.00	1.70	0.76	YES	
L0042120	0	0.63320E-07	543689.6	3756145.3	304.2	0.00	1.70	0.76	YES	

L0042121 0 0.63320E-07 543689.6 3756149.0 304.2 0.00 1.70 0.76 YES
L0042122 0 0.63320E-07 543689.6 3756152.6 304.3 0.00 1.70 0.76 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0042123	0	0.63320E-07	543689.7	3756156.3	304.4	0.00	1.70	0.76	YES	
L0042124	0	0.63320E-07	543689.7	3756159.9	304.4	0.00	1.70	0.76	YES	
L0042125	0	0.63320E-07	543689.7	3756163.6	304.5	0.00	1.70	0.76	YES	
L0042126	0	0.63320E-07	543689.7	3756167.3	304.5	0.00	1.70	0.76	YES	
L0042127	0	0.63320E-07	543689.7	3756170.9	304.6	0.00	1.70	0.76	YES	
L0042128	0	0.63320E-07	543689.7	3756174.6	304.7	0.00	1.70	0.76	YES	
L0042129	0	0.63320E-07	543689.7	3756178.2	304.7	0.00	1.70	0.76	YES	
L0042130	0	0.63320E-07	543689.7	3756181.9	304.8	0.00	1.70	0.76	YES	
L0042131	0	0.63320E-07	543689.7	3756185.6	304.9	0.00	1.70	0.76	YES	
L0042132	0	0.63320E-07	543689.8	3756189.2	304.9	0.00	1.70	0.76	YES	
L0042133	0	0.63320E-07	543689.8	3756192.9	305.0	0.00	1.70	0.76	YES	
L0042134	0	0.63320E-07	543689.8	3756196.5	305.1	0.00	1.70	0.76	YES	
L0042135	0	0.63320E-07	543689.8	3756200.2	305.1	0.00	1.70	0.76	YES	
L0042136	0	0.63320E-07	543689.8	3756203.8	305.2	0.00	1.70	0.76	YES	
L0042137	0	0.63320E-07	543689.8	3756207.5	305.3	0.00	1.70	0.76	YES	
L0042138	0	0.63320E-07	543689.8	3756211.2	305.3	0.00	1.70	0.76	YES	
L0042139	0	0.63320E-07	543689.8	3756214.8	305.4	0.00	1.70	0.76	YES	
L0042140	0	0.63320E-07	543689.8	3756218.5	305.4	0.00	1.70	0.76	YES	
L0042141	0	0.63320E-07	543689.9	3756222.1	305.5	0.00	1.70	0.76	YES	
L0042142	0	0.63320E-07	543689.9	3756225.8	305.5	0.00	1.70	0.76	YES	
L0042143	0	0.63320E-07	543689.9	3756229.4	305.6	0.00	1.70	0.76	YES	
L0042144	0	0.63320E-07	543689.9	3756233.1	305.6	0.00	1.70	0.76	YES	
L0042145	0	0.63320E-07	543689.9	3756236.8	305.7	0.00	1.70	0.76	YES	
L0042146	0	0.63320E-07	543689.9	3756240.4	305.7	0.00	1.70	0.76	YES	
L0042147	0	0.63320E-07	543689.9	3756244.1	305.8	0.00	1.70	0.76	YES	
L0042148	0	0.63320E-07	543689.9	3756247.7	305.8	0.00	1.70	0.76	YES	
L0042149	0	0.63320E-07	543689.9	3756251.4	305.9	0.00	1.70	0.76	YES	
L0042150	0	0.63320E-07	543690.0	3756255.0	305.9	0.00	1.70	0.76	YES	
L0042151	0	0.63320E-07	543690.0	3756258.7	306.0	0.00	1.70	0.76	YES	
L0042152	0	0.63320E-07	543690.0	3756262.4	306.0	0.00	1.70	0.76	YES	
L0042153	0	0.63320E-07	543690.0	3756266.0	306.1	0.00	1.70	0.76	YES	
L0042154	0	0.63320E-07	543690.0	3756269.7	306.1	0.00	1.70	0.76	YES	
L0042155	0	0.63320E-07	543690.0	3756273.3	306.2	0.00	1.70	0.76	YES	
L0042156	0	0.63320E-07	543690.0	3756277.0	306.3	0.00	1.70	0.76	YES	
L0042157	0	0.63320E-07	543690.0	3756280.6	306.3	0.00	1.70	0.76	YES	

L0042158	0	0.63320E-07	543690.0	3756284.3	306.4	0.00	1.70	0.76	YES	
L0042159	0	0.63320E-07	543690.1	3756288.0	306.5	0.00	1.70	0.76	YES	
L0042160	0	0.63320E-07	543690.1	3756291.6	306.6	0.00	1.70	0.76	YES	
L0042161	0	0.63320E-07	543690.1	3756295.3	306.6	0.00	1.70	0.76	YES	
L0042162	0	0.63320E-07	543690.1	3756298.9	306.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0042163	0	0.63320E-07	543690.1	3756302.6	306.7	0.00	1.70	0.76	YES	
L0042164	0	0.63320E-07	543690.1	3756306.3	306.8	0.00	1.70	0.76	YES	
L0042165	0	0.63320E-07	543690.1	3756309.9	306.8	0.00	1.70	0.76	YES	
L0042166	0	0.63320E-07	543690.1	3756313.6	306.9	0.00	1.70	0.76	YES	
L0042167	0	0.63320E-07	543690.1	3756317.2	306.9	0.00	1.70	0.76	YES	
L0042168	0	0.63320E-07	543690.2	3756320.9	307.0	0.00	1.70	0.76	YES	
L0042169	0	0.63320E-07	543690.2	3756324.5	307.0	0.00	1.70	0.76	YES	
L0042170	0	0.63320E-07	543690.2	3756328.2	307.1	0.00	1.70	0.76	YES	
L0042171	0	0.63320E-07	543690.2	3756331.9	307.1	0.00	1.70	0.76	YES	
L0042172	0	0.63320E-07	543690.2	3756335.5	307.2	0.00	1.70	0.76	YES	
L0042173	0	0.63320E-07	543690.2	3756339.2	307.3	0.00	1.70	0.76	YES	
L0042174	0	0.63320E-07	543690.2	3756342.8	307.3	0.00	1.70	0.76	YES	
L0042175	0	0.63320E-07	543690.2	3756346.5	307.4	0.00	1.70	0.76	YES	
L0042176	0	0.63320E-07	543690.2	3756350.1	307.5	0.00	1.70	0.76	YES	
L0042177	0	0.63320E-07	543690.3	3756353.8	307.5	0.00	1.70	0.76	YES	
L0042178	0	0.63320E-07	543690.3	3756357.5	307.6	0.00	1.70	0.76	YES	
L0042179	0	0.63320E-07	543690.3	3756361.1	307.7	0.00	1.70	0.76	YES	
L0045445	0	0.30630E-07	543696.2	3756365.7	307.7	0.00	1.70	0.76	YES	
L0045446	0	0.30630E-07	543699.9	3756365.7	307.7	0.00	1.70	0.76	YES	
L0045447	0	0.30630E-07	543703.5	3756365.7	307.7	0.00	1.70	0.76	YES	
L0045448	0	0.30630E-07	543707.2	3756365.8	307.7	0.00	1.70	0.76	YES	
L0045449	0	0.30630E-07	543710.9	3756365.8	307.7	0.00	1.70	0.76	YES	
L0045450	0	0.30630E-07	543714.5	3756365.8	307.6	0.00	1.70	0.76	YES	
L0045451	0	0.30630E-07	543718.2	3756365.8	307.6	0.00	1.70	0.76	YES	
L0045452	0	0.30630E-07	543721.8	3756365.8	307.6	0.00	1.70	0.76	YES	
L0045453	0	0.30630E-07	543725.5	3756365.9	307.6	0.00	1.70	0.76	YES	
L0045454	0	0.30630E-07	543729.1	3756365.9	307.6	0.00	1.70	0.76	YES	
L0045455	0	0.30630E-07	543732.8	3756365.9	307.6	0.00	1.70	0.76	YES	
L0045456	0	0.30630E-07	543736.5	3756365.9	307.6	0.00	1.70	0.76	YES	
L0045457	0	0.30630E-07	543740.1	3756366.0	307.6	0.00	1.70	0.76	YES	
L0045458	0	0.30630E-07	543743.8	3756366.0	307.5	0.00	1.70	0.76	YES	
L0045459	0	0.30630E-07	543747.4	3756366.0	307.5	0.00	1.70	0.76	YES	

L0045460	0	0.30630E-07	543751.1	3756366.0	307.5	0.00	1.70	0.76	YES	
L0045461	0	0.30630E-07	543754.8	3756366.1	307.4	0.00	1.70	0.76	YES	
L0045462	0	0.30630E-07	543758.4	3756366.1	307.4	0.00	1.70	0.76	YES	
L0045463	0	0.30630E-07	543762.1	3756366.1	307.4	0.00	1.70	0.76	YES	
L0045464	0	0.30630E-07	543765.7	3756366.1	307.4	0.00	1.70	0.76	YES	
L0045465	0	0.30630E-07	543769.4	3756366.2	307.3	0.00	1.70	0.76	YES	
L0045466	0	0.30630E-07	543773.0	3756366.2	307.3	0.00	1.70	0.76	YES	
L0045467	0	0.30630E-07	543776.7	3756366.2	307.3	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0045468	0	0.30630E-07	543780.4	3756366.2	307.2	0.00	1.70	0.76	YES	
L0045469	0	0.30630E-07	543784.0	3756366.3	307.2	0.00	1.70	0.76	YES	
L0045470	0	0.30630E-07	543787.7	3756366.3	307.1	0.00	1.70	0.76	YES	
L0045471	0	0.30630E-07	543791.3	3756366.3	307.0	0.00	1.70	0.76	YES	
L0045472	0	0.30630E-07	543795.0	3756366.3	306.9	0.00	1.70	0.76	YES	
L0045473	0	0.30630E-07	543798.6	3756366.4	306.9	0.00	1.70	0.76	YES	
L0045474	0	0.30630E-07	543802.3	3756366.4	306.8	0.00	1.70	0.76	YES	
L0045475	0	0.30630E-07	543806.0	3756366.4	306.7	0.00	1.70	0.76	YES	
L0045476	0	0.30630E-07	543809.6	3756366.4	306.7	0.00	1.70	0.76	YES	
L0045477	0	0.30630E-07	543813.3	3756366.5	306.6	0.00	1.70	0.76	YES	
L0045478	0	0.30630E-07	543816.9	3756366.5	306.5	0.00	1.70	0.76	YES	
L0045479	0	0.30630E-07	543820.6	3756366.5	306.5	0.00	1.70	0.76	YES	
L0045480	0	0.30630E-07	543824.2	3756366.5	306.4	0.00	1.70	0.76	YES	
L0045481	0	0.30630E-07	543827.9	3756366.6	306.3	0.00	1.70	0.76	YES	
L0045482	0	0.30630E-07	543831.6	3756366.6	306.3	0.00	1.70	0.76	YES	
L0045483	0	0.30630E-07	543835.2	3756366.6	306.3	0.00	1.70	0.76	YES	
L0045484	0	0.30630E-07	543838.9	3756366.6	306.2	0.00	1.70	0.76	YES	
L0045485	0	0.30630E-07	543842.5	3756366.7	306.2	0.00	1.70	0.76	YES	
L0045486	0	0.30630E-07	543846.2	3756366.7	306.2	0.00	1.70	0.76	YES	
L0045487	0	0.30630E-07	543849.8	3756366.7	306.1	0.00	1.70	0.76	YES	
L0045488	0	0.30630E-07	543853.5	3756366.7	306.1	0.00	1.70	0.76	YES	
L0045489	0	0.30630E-07	543857.2	3756366.8	306.1	0.00	1.70	0.76	YES	
L0045490	0	0.30630E-07	543860.8	3756366.8	306.1	0.00	1.70	0.76	YES	
L0045491	0	0.30630E-07	543864.5	3756366.8	306.2	0.00	1.70	0.76	YES	
L0045492	0	0.30630E-07	543868.1	3756366.8	306.2	0.00	1.70	0.76	YES	
L0045493	0	0.30630E-07	543871.8	3756366.9	306.2	0.00	1.70	0.76	YES	
L0045494	0	0.30630E-07	543875.4	3756366.9	306.2	0.00	1.70	0.76	YES	
L0045495	0	0.30630E-07	543879.1	3756366.9	306.2	0.00	1.70	0.76	YES	
L0045496	0	0.30630E-07	543882.8	3756366.9	306.2	0.00	1.70	0.76	YES	

L0045497	0	0.30630E-07	543886.4	3756367.0	306.2	0.00	1.70	0.76	YES
L0045498	0	0.30630E-07	543890.1	3756367.0	306.2	0.00	1.70	0.76	YES
L0045499	0	0.30630E-07	543893.7	3756367.0	306.2	0.00	1.70	0.76	YES
L0045500	0	0.30630E-07	543897.4	3756367.0	306.1	0.00	1.70	0.76	YES
L0045501	0	0.30630E-07	543901.1	3756367.1	306.1	0.00	1.70	0.76	YES
L0045502	0	0.30630E-07	543904.7	3756367.1	306.1	0.00	1.70	0.76	YES
L0045503	0	0.30630E-07	543908.4	3756367.1	306.1	0.00	1.70	0.76	YES
L0045504	0	0.30630E-07	543912.0	3756367.1	306.0	0.00	1.70	0.76	YES
L0045505	0	0.30630E-07	543915.7	3756367.2	306.0	0.00	1.70	0.76	YES
L0045506	0	0.30630E-07	543919.3	3756367.2	306.0	0.00	1.70	0.76	YES
L0045507	0	0.30630E-07	543923.0	3756367.2	305.9	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0045508	0	0.30630E-07	543926.7	3756367.2	305.9	0.00	1.70	0.76	YES	
L0045509	0	0.30630E-07	543930.3	3756367.3	305.9	0.00	1.70	0.76	YES	
L0045510	0	0.30630E-07	543934.0	3756367.3	305.8	0.00	1.70	0.76	YES	
L0045511	0	0.30630E-07	543937.6	3756367.3	305.8	0.00	1.70	0.76	YES	
L0045512	0	0.30630E-07	543941.3	3756367.3	305.8	0.00	1.70	0.76	YES	
L0045513	0	0.30630E-07	543944.9	3756367.4	305.7	0.00	1.70	0.76	YES	
L0045514	0	0.30630E-07	543948.6	3756367.4	305.7	0.00	1.70	0.76	YES	
L0045515	0	0.30630E-07	543952.3	3756367.4	305.7	0.00	1.70	0.76	YES	
L0045516	0	0.30630E-07	543955.9	3756367.4	305.6	0.00	1.70	0.76	YES	
L0045517	0	0.30630E-07	543959.6	3756367.5	305.6	0.00	1.70	0.76	YES	
L0045518	0	0.30630E-07	543963.2	3756367.5	305.6	0.00	1.70	0.76	YES	
L0045519	0	0.30630E-07	543966.9	3756367.5	305.5	0.00	1.70	0.76	YES	
L0045520	0	0.30630E-07	543970.5	3756367.5	305.5	0.00	1.70	0.76	YES	
L0045521	0	0.30630E-07	543974.2	3756367.6	305.5	0.00	1.70	0.76	YES	
L0045522	0	0.30630E-07	543977.9	3756367.6	305.4	0.00	1.70	0.76	YES	
L0045523	0	0.30630E-07	543981.5	3756367.6	305.4	0.00	1.70	0.76	YES	
L0045524	0	0.30630E-07	543985.2	3756367.6	305.4	0.00	1.70	0.76	YES	
L0045525	0	0.30630E-07	543988.8	3756367.7	305.3	0.00	1.70	0.76	YES	
L0045526	0	0.30630E-07	543992.5	3756367.7	305.3	0.00	1.70	0.76	YES	
L0045527	0	0.30630E-07	543996.1	3756367.7	305.3	0.00	1.70	0.76	YES	
L0045528	0	0.30630E-07	543999.8	3756367.7	305.2	0.00	1.70	0.76	YES	
L0045529	0	0.30630E-07	544003.5	3756367.8	305.2	0.00	1.70	0.76	YES	
L0045530	0	0.30630E-07	544007.1	3756367.8	305.2	0.00	1.70	0.76	YES	
L0045531	0	0.30630E-07	544010.8	3756367.8	305.2	0.00	1.70	0.76	YES	
L0045532	0	0.30630E-07	544014.4	3756367.8	305.1	0.00	1.70	0.76	YES	
L0045533	0	0.30630E-07	544018.1	3756367.9	305.1	0.00	1.70	0.76	YES	

L0045534	0	0.30630E-07	544021.7	3756367.9	305.1	0.00	1.70	0.76	YES	
L0045535	0	0.30630E-07	544025.4	3756367.9	305.0	0.00	1.70	0.76	YES	
L0045536	0	0.30630E-07	544029.1	3756367.9	305.0	0.00	1.70	0.76	YES	
L0045537	0	0.30630E-07	544032.7	3756368.0	305.0	0.00	1.70	0.76	YES	
L0045538	0	0.30630E-07	544036.4	3756368.0	304.9	0.00	1.70	0.76	YES	
L0045539	0	0.30630E-07	544040.0	3756368.0	304.9	0.00	1.70	0.76	YES	
L0045540	0	0.30630E-07	544043.7	3756368.0	304.9	0.00	1.70	0.76	YES	
L0045541	0	0.30630E-07	544047.4	3756368.1	304.9	0.00	1.70	0.76	YES	
L0045542	0	0.30630E-07	544051.0	3756368.1	304.8	0.00	1.70	0.76	YES	
L0045543	0	0.30630E-07	544054.7	3756368.1	304.8	0.00	1.70	0.76	YES	
L0045544	0	0.30630E-07	544058.3	3756368.1	304.8	0.00	1.70	0.76	YES	
L0045545	0	0.30630E-07	544062.0	3756368.1	304.8	0.00	1.70	0.76	YES	
L0045546	0	0.30630E-07	544065.6	3756368.2	304.7	0.00	1.70	0.76	YES	
L0045547	0	0.30630E-07	544069.3	3756368.2	304.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0045548	0	0.30630E-07	544073.0	3756368.2	304.7	0.00	1.70	0.76	YES	
L0045549	0	0.30630E-07	544076.6	3756368.2	304.7	0.00	1.70	0.76	YES	
L0045550	0	0.30630E-07	544080.3	3756368.3	304.7	0.00	1.70	0.76	YES	
L0045551	0	0.30630E-07	544083.9	3756368.3	304.6	0.00	1.70	0.76	YES	
L0045552	0	0.30630E-07	544087.6	3756368.3	304.6	0.00	1.70	0.76	YES	
L0045553	0	0.30630E-07	544091.2	3756368.3	304.6	0.00	1.70	0.76	YES	
L0045554	0	0.30630E-07	544094.9	3756368.4	304.6	0.00	1.70	0.76	YES	
L0045555	0	0.30630E-07	544098.6	3756368.4	304.5	0.00	1.70	0.76	YES	
L0045556	0	0.30630E-07	544102.2	3756368.4	304.5	0.00	1.70	0.76	YES	
L0045557	0	0.30630E-07	544105.9	3756368.4	304.5	0.00	1.70	0.76	YES	
L0045558	0	0.30630E-07	544109.5	3756368.5	304.5	0.00	1.70	0.76	YES	
L0045559	0	0.30630E-07	544113.2	3756368.5	304.4	0.00	1.70	0.76	YES	
L0045560	0	0.30630E-07	544116.8	3756368.5	304.4	0.00	1.70	0.76	YES	
L0045561	0	0.30630E-07	544120.5	3756368.5	304.4	0.00	1.70	0.76	YES	
L0045562	0	0.30630E-07	544124.2	3756368.6	304.4	0.00	1.70	0.76	YES	
L0045563	0	0.30630E-07	544127.8	3756368.6	304.4	0.00	1.70	0.76	YES	
L0045564	0	0.30630E-07	544131.5	3756368.6	304.4	0.00	1.70	0.76	YES	
L0045565	0	0.30630E-07	544135.1	3756368.6	304.4	0.00	1.70	0.76	YES	
L0045566	0	0.30630E-07	544138.8	3756368.7	304.3	0.00	1.70	0.76	YES	
L0045567	0	0.30630E-07	544142.4	3756368.7	304.3	0.00	1.70	0.76	YES	
L0045568	0	0.30630E-07	544146.1	3756368.7	304.3	0.00	1.70	0.76	YES	
L0045569	0	0.30630E-07	544149.8	3756368.7	304.2	0.00	1.70	0.76	YES	
L0045570	0	0.30630E-07	544153.4	3756368.8	304.2	0.00	1.70	0.76	YES	

L0045571	0	0.30630E-07	544157.1	3756368.8	304.2	0.00	1.70	0.76	YES	
L0045572	0	0.30630E-07	544160.7	3756368.8	304.1	0.00	1.70	0.76	YES	
L0045573	0	0.30630E-07	544164.4	3756368.8	304.1	0.00	1.70	0.76	YES	
L0045574	0	0.30630E-07	544168.0	3756368.9	304.0	0.00	1.70	0.76	YES	
L0045575	0	0.30630E-07	544171.7	3756368.9	304.0	0.00	1.70	0.76	YES	
L0045576	0	0.30630E-07	544175.4	3756368.9	304.0	0.00	1.70	0.76	YES	
L0045577	0	0.30630E-07	544179.0	3756368.9	303.9	0.00	1.70	0.76	YES	
L0045578	0	0.30630E-07	544182.7	3756369.0	303.9	0.00	1.70	0.76	YES	
L0045579	0	0.30630E-07	544186.3	3756369.0	303.8	0.00	1.70	0.76	YES	
L0045580	0	0.30630E-07	544190.0	3756369.0	303.8	0.00	1.70	0.76	YES	
L0045581	0	0.30630E-07	544193.7	3756369.0	303.8	0.00	1.70	0.76	YES	
L0045582	0	0.30630E-07	544197.3	3756369.1	303.7	0.00	1.70	0.76	YES	
L0045583	0	0.30630E-07	544201.0	3756369.1	303.7	0.00	1.70	0.76	YES	
L0045584	0	0.30630E-07	544204.6	3756369.1	303.6	0.00	1.70	0.76	YES	
L0045585	0	0.30630E-07	544208.3	3756369.1	303.6	0.00	1.70	0.76	YES	
L0045586	0	0.30630E-07	544211.9	3756369.2	303.5	0.00	1.70	0.76	YES	
L0045587	0	0.30630E-07	544215.6	3756369.2	303.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0045588	0	0.30630E-07	544219.3	3756369.2	303.5	0.00	1.70	0.76	YES	
L0045589	0	0.30630E-07	544222.9	3756369.2	303.4	0.00	1.70	0.76	YES	
L0045590	0	0.30630E-07	544226.6	3756369.3	303.4	0.00	1.70	0.76	YES	
L0045591	0	0.30630E-07	544230.2	3756369.3	303.4	0.00	1.70	0.76	YES	
L0045592	0	0.30630E-07	544233.9	3756369.3	303.3	0.00	1.70	0.76	YES	
L0045593	0	0.30630E-07	544237.5	3756369.3	303.3	0.00	1.70	0.76	YES	
L0045594	0	0.30630E-07	544241.2	3756369.4	303.3	0.00	1.70	0.76	YES	
L0045595	0	0.30630E-07	544244.9	3756369.4	303.2	0.00	1.70	0.76	YES	
L0045596	0	0.30630E-07	544248.5	3756369.4	303.2	0.00	1.70	0.76	YES	
L0045597	0	0.30630E-07	544252.2	3756369.4	303.1	0.00	1.70	0.76	YES	
L0045598	0	0.30630E-07	544255.8	3756369.5	303.1	0.00	1.70	0.76	YES	
L0045599	0	0.30630E-07	544259.5	3756369.5	303.0	0.00	1.70	0.76	YES	
L0045600	0	0.30630E-07	544263.1	3756369.5	303.0	0.00	1.70	0.76	YES	
L0045601	0	0.30630E-07	544266.8	3756369.5	303.0	0.00	1.70	0.76	YES	
L0045602	0	0.30630E-07	544270.5	3756369.6	302.9	0.00	1.70	0.76	YES	
L0045603	0	0.30630E-07	544274.1	3756369.6	302.9	0.00	1.70	0.76	YES	
L0045604	0	0.30630E-07	544277.8	3756369.6	302.9	0.00	1.70	0.76	YES	
L0045605	0	0.30630E-07	544281.4	3756369.6	302.8	0.00	1.70	0.76	YES	
L0045606	0	0.30630E-07	544285.1	3756369.7	302.8	0.00	1.70	0.76	YES	
L0045607	0	0.30630E-07	544288.7	3756369.7	302.8	0.00	1.70	0.76	YES	

L0045608	0	0.30630E-07	544292.4	3756369.7	302.7	0.00	1.70	0.76	YES
L0045609	0	0.30630E-07	544296.1	3756369.7	302.7	0.00	1.70	0.76	YES
L0045610	0	0.30630E-07	544299.7	3756369.8	302.7	0.00	1.70	0.76	YES
L0045611	0	0.30630E-07	544303.4	3756369.8	302.7	0.00	1.70	0.76	YES
L0045612	0	0.30630E-07	544307.0	3756369.8	302.6	0.00	1.70	0.76	YES
L0045613	0	0.30630E-07	544310.7	3756369.8	302.6	0.00	1.70	0.76	YES
L0045614	0	0.30630E-07	544314.4	3756369.9	302.6	0.00	1.70	0.76	YES
L0045615	0	0.30630E-07	544318.0	3756369.9	302.6	0.00	1.70	0.76	YES
L0045616	0	0.30630E-07	544321.7	3756369.9	302.5	0.00	1.70	0.76	YES
L0045617	0	0.30630E-07	544325.3	3756369.9	302.5	0.00	1.70	0.76	YES
L0045618	0	0.30630E-07	544329.0	3756370.0	302.5	0.00	1.70	0.76	YES
L0045619	0	0.30630E-07	544332.6	3756370.0	302.4	0.00	1.70	0.76	YES
L0045620	0	0.30630E-07	544336.3	3756370.0	302.4	0.00	1.70	0.76	YES
L0045621	0	0.30630E-07	544340.0	3756370.0	302.4	0.00	1.70	0.76	YES
L0045622	0	0.30630E-07	544343.6	3756370.1	302.3	0.00	1.70	0.76	YES
L0045623	0	0.30630E-07	544347.3	3756370.1	302.2	0.00	1.70	0.76	YES
L0045624	0	0.30630E-07	544350.9	3756370.1	302.2	0.00	1.70	0.76	YES
L0045625	0	0.30630E-07	544354.6	3756370.1	302.1	0.00	1.70	0.76	YES
L0045626	0	0.30630E-07	544358.2	3756370.2	302.1	0.00	1.70	0.76	YES
L0045627	0	0.30630E-07	544361.9	3756370.2	302.0	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0045628	0	0.30630E-07	544365.6	3756370.2	301.9	0.00	1.70	0.76	YES	
L0045629	0	0.30630E-07	544369.2	3756370.2	301.8	0.00	1.70	0.76	YES	
L0045630	0	0.30630E-07	544372.9	3756370.3	301.5	0.00	1.70	0.76	YES	
L0045631	0	0.30630E-07	544376.5	3756370.3	301.2	0.00	1.70	0.76	YES	
L0045632	0	0.30630E-07	544380.2	3756370.3	301.0	0.00	1.70	0.76	YES	
L0045633	0	0.30630E-07	544383.8	3756370.3	300.7	0.00	1.70	0.76	YES	
L0045634	0	0.30630E-07	544387.5	3756370.4	300.5	0.00	1.70	0.76	YES	
L0045635	0	0.30630E-07	544391.2	3756370.4	300.2	0.00	1.70	0.76	YES	
L0045636	0	0.30630E-07	544394.8	3756370.4	300.1	0.00	1.70	0.76	YES	
L0045637	0	0.30630E-07	544398.5	3756370.4	300.1	0.00	1.70	0.76	YES	
L0045638	0	0.30630E-07	544402.1	3756370.5	300.2	0.00	1.70	0.76	YES	
L0045639	0	0.30630E-07	544405.8	3756370.5	300.2	0.00	1.70	0.76	YES	
L0045640	0	0.30630E-07	544409.4	3756370.5	300.3	0.00	1.70	0.76	YES	
L0045641	0	0.30630E-07	544413.1	3756370.5	300.3	0.00	1.70	0.76	YES	
L0045642	0	0.30630E-07	544416.8	3756370.5	300.4	0.00	1.70	0.76	YES	
L0045643	0	0.30630E-07	544420.4	3756370.6	300.4	0.00	1.70	0.76	YES	
L0045644	0	0.30630E-07	544424.1	3756370.6	300.4	0.00	1.70	0.76	YES	

L0045645	0	0.30630E-07	544427.7	3756370.6	300.3	0.00	1.70	0.76	YES
L0045646	0	0.30630E-07	544431.4	3756370.6	300.3	0.00	1.70	0.76	YES
L0045647	0	0.30630E-07	544435.0	3756370.7	300.2	0.00	1.70	0.76	YES
L0045648	0	0.30630E-07	544438.7	3756370.7	300.2	0.00	1.70	0.76	YES
L0045649	0	0.30630E-07	544442.4	3756370.7	300.2	0.00	1.70	0.76	YES
L0045650	0	0.30630E-07	544446.0	3756370.7	300.1	0.00	1.70	0.76	YES
L0045651	0	0.30630E-07	544449.7	3756370.8	300.0	0.00	1.70	0.76	YES
L0045652	0	0.30630E-07	544453.3	3756370.8	299.9	0.00	1.70	0.76	YES
L0045653	0	0.30630E-07	544457.0	3756370.8	299.9	0.00	1.70	0.76	YES
L0045654	0	0.30630E-07	544460.7	3756370.8	299.8	0.00	1.70	0.76	YES
L0045655	0	0.30630E-07	544464.3	3756370.9	299.7	0.00	1.70	0.76	YES
L0045656	0	0.30630E-07	544468.0	3756370.9	299.6	0.00	1.70	0.76	YES
L0045657	0	0.30630E-07	544471.6	3756370.9	299.6	0.00	1.70	0.76	YES
L0045658	0	0.30630E-07	544475.3	3756370.9	299.6	0.00	1.70	0.76	YES
L0045659	0	0.30630E-07	544478.9	3756371.0	299.6	0.00	1.70	0.76	YES
L0045660	0	0.30630E-07	544482.6	3756371.0	299.6	0.00	1.70	0.76	YES
L0045661	0	0.30630E-07	544486.3	3756371.0	299.6	0.00	1.70	0.76	YES
L0045662	0	0.30630E-07	544489.9	3756371.0	299.7	0.00	1.70	0.76	YES
L0045663	0	0.30630E-07	544493.6	3756371.1	299.7	0.00	1.70	0.76	YES
L0045664	0	0.30630E-07	544497.2	3756371.1	299.8	0.00	1.70	0.76	YES
L0045665	0	0.30630E-07	544500.9	3756371.1	300.1	0.00	1.70	0.76	YES
L0045666	0	0.30630E-07	544504.5	3756371.1	300.3	0.00	1.70	0.76	YES
L0045667	0	0.30630E-07	544508.2	3756371.2	300.6	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0045668	0	0.30630E-07	544511.9	3756371.2	300.9	0.00	1.70	0.76	YES	
L0045669	0	0.30630E-07	544515.5	3756371.2	301.1	0.00	1.70	0.76	YES	
L0045670	0	0.30630E-07	544519.2	3756371.2	301.4	0.00	1.70	0.76	YES	
L0045671	0	0.30630E-07	544522.8	3756371.3	301.6	0.00	1.70	0.76	YES	
L0045672	0	0.30630E-07	544526.5	3756371.3	301.5	0.00	1.70	0.76	YES	
L0045673	0	0.30630E-07	544530.1	3756371.3	301.5	0.00	1.70	0.76	YES	
L0045674	0	0.30630E-07	544533.8	3756371.3	301.5	0.00	1.70	0.76	YES	
L0045675	0	0.30630E-07	544537.5	3756371.4	301.4	0.00	1.70	0.76	YES	
L0045676	0	0.30630E-07	544541.1	3756371.4	301.4	0.00	1.70	0.76	YES	
L0045677	0	0.30630E-07	544544.8	3756371.4	301.4	0.00	1.70	0.76	YES	
L0045678	0	0.30630E-07	544548.4	3756371.4	301.3	0.00	1.70	0.76	YES	
L0045679	0	0.30630E-07	544552.1	3756371.5	301.3	0.00	1.70	0.76	YES	
L0045680	0	0.30630E-07	544555.7	3756371.5	301.2	0.00	1.70	0.76	YES	
L0045681	0	0.30630E-07	544559.4	3756371.5	301.2	0.00	1.70	0.76	YES	

L0045682	0	0.30630E-07	544563.1	3756371.5	301.1	0.00	1.70	0.76	YES	
L0045683	0	0.30630E-07	544566.7	3756371.6	301.1	0.00	1.70	0.76	YES	
L0045684	0	0.30630E-07	544570.4	3756371.6	301.0	0.00	1.70	0.76	YES	
L0045685	0	0.30630E-07	544574.0	3756371.6	301.0	0.00	1.70	0.76	YES	
L0045686	0	0.30630E-07	544577.7	3756371.6	300.9	0.00	1.70	0.76	YES	
L0045687	0	0.30630E-07	544581.3	3756371.7	300.9	0.00	1.70	0.76	YES	
L0045688	0	0.30630E-07	544585.0	3756371.7	300.8	0.00	1.70	0.76	YES	
L0045689	0	0.30630E-07	544588.7	3756371.7	300.8	0.00	1.70	0.76	YES	
L0045690	0	0.30630E-07	544592.3	3756371.7	300.7	0.00	1.70	0.76	YES	
L0045691	0	0.30630E-07	544596.0	3756371.8	300.6	0.00	1.70	0.76	YES	
L0045692	0	0.30630E-07	544599.6	3756371.8	300.6	0.00	1.70	0.76	YES	
L0045693	0	0.30630E-07	544603.3	3756371.8	300.5	0.00	1.70	0.76	YES	
L0045694	0	0.30630E-07	544607.0	3756371.8	300.4	0.00	1.70	0.76	YES	
L0045695	0	0.30630E-07	544610.6	3756371.9	300.4	0.00	1.70	0.76	YES	
L0045696	0	0.30630E-07	544614.3	3756371.9	300.3	0.00	1.70	0.76	YES	
L0045697	0	0.30630E-07	544617.9	3756371.9	300.2	0.00	1.70	0.76	YES	
L0045698	0	0.30630E-07	544621.6	3756371.9	300.2	0.00	1.70	0.76	YES	
L0045699	0	0.30630E-07	544625.2	3756372.0	300.1	0.00	1.70	0.76	YES	
L0045700	0	0.30630E-07	544628.9	3756372.0	300.0	0.00	1.70	0.76	YES	
L0045701	0	0.30630E-07	544632.6	3756372.0	300.0	0.00	1.70	0.76	YES	
L0045702	0	0.30630E-07	544636.2	3756372.0	299.9	0.00	1.70	0.76	YES	
L0045703	0	0.30630E-07	544639.9	3756372.1	299.8	0.00	1.70	0.76	YES	
L0045704	0	0.30630E-07	544643.5	3756372.1	299.8	0.00	1.70	0.76	YES	
L0045705	0	0.30630E-07	544647.2	3756372.1	299.7	0.00	1.70	0.76	YES	
L0045706	0	0.30630E-07	544650.8	3756372.1	299.6	0.00	1.70	0.76	YES	
L0045707	0	0.30630E-07	544654.5	3756372.2	299.6	0.00	1.70	0.76	YES	

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0045708	0	0.30630E-07	544658.2	3756372.2	299.6	0.00	1.70	0.76	YES	
L0045709	0	0.30630E-07	544661.8	3756372.2	299.5	0.00	1.70	0.76	YES	
L0045710	0	0.30630E-07	544665.5	3756372.2	299.5	0.00	1.70	0.76	YES	
L0045711	0	0.30630E-07	544669.1	3756372.3	299.4	0.00	1.70	0.76	YES	
L0045712	0	0.30630E-07	544672.8	3756372.3	299.4	0.00	1.70	0.76	YES	
L0045713	0	0.30630E-07	544676.4	3756372.3	299.4	0.00	1.70	0.76	YES	
L0045714	0	0.30630E-07	544680.1	3756372.3	299.3	0.00	1.70	0.76	YES	
L0045715	0	0.30630E-07	544683.8	3756372.4	299.3	0.00	1.70	0.76	YES	
L0045716	0	0.30630E-07	544687.4	3756372.4	299.3	0.00	1.70	0.76	YES	
L0045717	0	0.30630E-07	544691.1	3756372.4	299.3	0.00	1.70	0.76	YES	
L0045718	0	0.30630E-07	544694.7	3756372.4	299.3	0.00	1.70	0.76	YES	

L0045719	0	0.30630E-07	544698.4	3756372.5	299.2	0.00	1.70	0.76	YES	
L0045720	0	0.30630E-07	544702.0	3756372.5	299.2	0.00	1.70	0.76	YES	
L0045721	0	0.30630E-07	544705.7	3756372.5	299.2	0.00	1.70	0.76	YES	
L0045722	0	0.30630E-07	544709.4	3756372.5	299.2	0.00	1.70	0.76	YES	
L0045723	0	0.30630E-07	544713.0	3756372.6	299.2	0.00	1.70	0.76	YES	
L0045724	0	0.30630E-07	544716.7	3756372.6	299.2	0.00	1.70	0.76	YES	
L0045725	0	0.30630E-07	544720.3	3756372.6	299.1	0.00	1.70	0.76	YES	
L0045726	0	0.30630E-07	544724.0	3756372.6	299.1	0.00	1.70	0.76	YES	
L0045727	0	0.30630E-07	544727.6	3756372.7	299.1	0.00	1.70	0.76	YES	
L0045728	0	0.30630E-07	544731.3	3756372.7	299.1	0.00	1.70	0.76	YES	
L0045729	0	0.30630E-07	544735.0	3756372.7	299.0	0.00	1.70	0.76	YES	
L0045730	0	0.30630E-07	544738.6	3756372.7	299.0	0.00	1.70	0.76	YES	
L0045731	0	0.30630E-07	544742.3	3756372.8	299.0	0.00	1.70	0.76	YES	
L0045732	0	0.30630E-07	544745.9	3756372.8	299.0	0.00	1.70	0.76	YES	
L0045733	0	0.30630E-07	544749.6	3756372.8	298.9	0.00	1.70	0.76	YES	
L0045734	0	0.30630E-07	544753.3	3756372.8	298.9	0.00	1.70	0.76	YES	
L0045735	0	0.30630E-07	544756.9	3756372.8	298.9	0.00	1.70	0.76	YES	
L0045736	0	0.30630E-07	544760.6	3756372.9	298.9	0.00	1.70	0.76	YES	
L0045737	0	0.30630E-07	544764.2	3756372.9	298.8	0.00	1.70	0.76	YES	
L0045738	0	0.30630E-07	544767.9	3756372.9	298.8	0.00	1.70	0.76	YES	
L0045739	0	0.30630E-07	544771.5	3756372.9	298.8	0.00	1.70	0.76	YES	
L0045740	0	0.30630E-07	544775.2	3756373.0	298.7	0.00	1.70	0.76	YES	
L0045741	0	0.30630E-07	544778.9	3756373.0	298.7	0.00	1.70	0.76	YES	
L0045742	0	0.30630E-07	544782.5	3756373.0	298.7	0.00	1.70	0.76	YES	
L0045743	0	0.30630E-07	544786.2	3756373.0	298.7	0.00	1.70	0.76	YES	
L0045744	0	0.30630E-07	544789.8	3756373.1	298.7	0.00	1.70	0.76	YES	
L0045745	0	0.30630E-07	544793.5	3756373.1	298.6	0.00	1.70	0.76	YES	
L0045746	0	0.30630E-07	544797.1	3756373.1	298.6	0.00	1.70	0.76	YES	
L0045747	0	0.30630E-07	544800.8	3756373.1	298.6	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0045748	0	0.30630E-07	544804.5	3756373.2	298.6	0.00	1.70	0.76	YES	
L0045749	0	0.30630E-07	544808.1	3756373.2	298.5	0.00	1.70	0.76	YES	
L0045750	0	0.30630E-07	544811.8	3756373.2	298.5	0.00	1.70	0.76	YES	
L0045751	0	0.30630E-07	544815.4	3756373.2	298.5	0.00	1.70	0.76	YES	
L0045752	0	0.30630E-07	544819.1	3756373.3	298.4	0.00	1.70	0.76	YES	
L0045753	0	0.30630E-07	544822.7	3756373.3	298.4	0.00	1.70	0.76	YES	
L0045754	0	0.30630E-07	544826.4	3756373.3	298.4	0.00	1.70	0.76	YES	
L0045755	0	0.30630E-07	544830.1	3756373.3	298.3	0.00	1.70	0.76	YES	

L0045756	0	0.30630E-07	544833.7	3756373.4	298.3	0.00	1.70	0.76	YES
L0045757	0	0.30630E-07	544837.4	3756373.4	298.3	0.00	1.70	0.76	YES
L0045758	0	0.30630E-07	544841.0	3756373.4	298.2	0.00	1.70	0.76	YES
L0045759	0	0.30630E-07	544844.7	3756373.4	298.2	0.00	1.70	0.76	YES
L0045760	0	0.30630E-07	544848.3	3756373.5	298.2	0.00	1.70	0.76	YES
L0045761	0	0.30630E-07	544852.0	3756373.5	298.2	0.00	1.70	0.76	YES
L0045762	0	0.30630E-07	544855.7	3756373.5	298.1	0.00	1.70	0.76	YES
L0045763	0	0.30630E-07	544859.3	3756373.5	298.1	0.00	1.70	0.76	YES
L0045764	0	0.30630E-07	544863.0	3756373.6	298.1	0.00	1.70	0.76	YES
L0045765	0	0.30630E-07	544866.6	3756373.6	298.1	0.00	1.70	0.76	YES
L0045766	0	0.30630E-07	544870.3	3756373.6	298.0	0.00	1.70	0.76	YES
L0045767	0	0.30630E-07	544874.0	3756373.6	298.0	0.00	1.70	0.76	YES
L0045768	0	0.30630E-07	544877.6	3756373.7	298.0	0.00	1.70	0.76	YES
L0045769	0	0.30630E-07	544881.3	3756373.7	297.9	0.00	1.70	0.76	YES
L0045770	0	0.30630E-07	544884.9	3756373.7	297.9	0.00	1.70	0.76	YES
L0045771	0	0.30630E-07	544888.6	3756373.7	297.9	0.00	1.70	0.76	YES
L0045772	0	0.30630E-07	544892.2	3756373.8	297.9	0.00	1.70	0.76	YES
L0045773	0	0.30630E-07	544895.9	3756373.8	297.9	0.00	1.70	0.76	YES
L0045774	0	0.30630E-07	544899.6	3756373.8	297.8	0.00	1.70	0.76	YES
L0045775	0	0.30630E-07	544903.2	3756373.8	297.8	0.00	1.70	0.76	YES
L0045776	0	0.30630E-07	544906.9	3756373.9	297.8	0.00	1.70	0.76	YES
L0045777	0	0.30630E-07	544910.5	3756373.9	297.8	0.00	1.70	0.76	YES
L0045778	0	0.30630E-07	544914.2	3756373.9	297.7	0.00	1.70	0.76	YES
L0045779	0	0.30630E-07	544917.8	3756373.9	297.7	0.00	1.70	0.76	YES
L0045780	0	0.30630E-07	544921.5	3756374.0	297.7	0.00	1.70	0.76	YES
L0045781	0	0.30630E-07	544925.2	3756374.0	297.7	0.00	1.70	0.76	YES
L0045782	0	0.30630E-07	544928.8	3756374.0	297.6	0.00	1.70	0.76	YES
L0045783	0	0.30630E-07	544932.5	3756374.0	297.6	0.00	1.70	0.76	YES
L0045784	0	0.30630E-07	544936.1	3756374.1	297.6	0.00	1.70	0.76	YES
L0045785	0	0.30630E-07	544939.8	3756374.1	297.5	0.00	1.70	0.76	YES
L0045786	0	0.30630E-07	544943.4	3756374.1	297.5	0.00	1.70	0.76	YES
L0045787	0	0.30630E-07	544947.1	3756374.1	297.5	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0045788	0	0.30630E-07	544950.8	3756374.2	297.4	0.00	1.70	0.76	YES	
L0045789	0	0.30630E-07	544954.4	3756374.2	297.4	0.00	1.70	0.76	YES	
L0045790	0	0.30630E-07	544958.1	3756374.2	297.4	0.00	1.70	0.76	YES	
L0045791	0	0.30630E-07	544961.7	3756374.2	297.3	0.00	1.70	0.76	YES	
L0045792	0	0.30630E-07	544965.4	3756374.3	297.3	0.00	1.70	0.76	YES	

L0045793	0	0.30630E-07	544969.0	3756374.3	297.2	0.00	1.70	0.76	YES	
L0045794	0	0.30630E-07	544972.7	3756374.3	297.2	0.00	1.70	0.76	YES	
L0045795	0	0.30630E-07	544976.4	3756374.3	297.1	0.00	1.70	0.76	YES	
L0045796	0	0.30630E-07	544980.0	3756374.4	297.1	0.00	1.70	0.76	YES	
L0045797	0	0.30630E-07	544983.7	3756374.4	297.1	0.00	1.70	0.76	YES	
L0045798	0	0.30630E-07	544987.3	3756374.4	297.0	0.00	1.70	0.76	YES	
L0045799	0	0.30630E-07	544991.0	3756374.3	297.0	0.00	1.70	0.76	YES	
L0045800	0	0.30630E-07	544994.6	3756374.3	296.9	0.00	1.70	0.76	YES	
L0045801	0	0.30630E-07	544998.3	3756374.3	296.9	0.00	1.70	0.76	YES	
L0045802	0	0.30630E-07	545002.0	3756374.2	296.9	0.00	1.70	0.76	YES	
L0045803	0	0.30630E-07	545005.6	3756374.2	296.8	0.00	1.70	0.76	YES	
L0045804	0	0.30630E-07	545009.3	3756374.2	296.8	0.00	1.70	0.76	YES	
L0045805	0	0.30630E-07	545012.9	3756374.1	296.7	0.00	1.70	0.76	YES	
L0045806	0	0.30630E-07	545016.6	3756374.1	296.7	0.00	1.70	0.76	YES	
L0045807	0	0.30630E-07	545020.2	3756374.1	296.6	0.00	1.70	0.76	YES	
L0045808	0	0.30630E-07	545023.9	3756374.0	296.6	0.00	1.70	0.76	YES	
L0045809	0	0.30630E-07	545027.6	3756374.0	296.5	0.00	1.70	0.76	YES	
L0045810	0	0.30630E-07	545031.2	3756374.0	296.5	0.00	1.70	0.76	YES	
L0045811	0	0.30630E-07	545034.9	3756374.0	296.4	0.00	1.70	0.76	YES	
L0045812	0	0.30630E-07	545038.5	3756373.9	296.4	0.00	1.70	0.76	YES	
L0045813	0	0.30630E-07	545042.2	3756373.9	296.4	0.00	1.70	0.76	YES	
L0045814	0	0.30630E-07	545045.9	3756373.9	296.4	0.00	1.70	0.76	YES	
L0045815	0	0.30630E-07	545049.5	3756373.8	296.4	0.00	1.70	0.76	YES	
L0045816	0	0.30630E-07	545053.2	3756373.8	296.4	0.00	1.70	0.76	YES	
L0045817	0	0.30630E-07	545056.8	3756373.8	296.4	0.00	1.70	0.76	YES	
L0045818	0	0.30630E-07	545060.5	3756373.7	296.4	0.00	1.70	0.76	YES	
L0045819	0	0.30630E-07	545064.1	3756373.7	296.3	0.00	1.70	0.76	YES	
L0045820	0	0.30630E-07	545067.8	3756373.7	296.2	0.00	1.70	0.76	YES	
L0045821	0	0.30630E-07	545071.5	3756373.6	296.2	0.00	1.70	0.76	YES	
L0045822	0	0.30630E-07	545075.1	3756373.6	296.1	0.00	1.70	0.76	YES	
L0045823	0	0.30630E-07	545078.8	3756373.6	296.1	0.00	1.70	0.76	YES	
L0045824	0	0.30630E-07	545082.4	3756373.6	296.0	0.00	1.70	0.76	YES	
L0045825	0	0.30630E-07	545086.1	3756373.5	295.9	0.00	1.70	0.76	YES	
L0045826	0	0.30630E-07	545089.7	3756373.5	295.9	0.00	1.70	0.76	YES	
L0045827	0	0.30630E-07	545093.4	3756373.5	296.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0045828	0	0.30630E-07	545097.1	3756373.4	296.0	0.00	1.70	0.76	YES	
L0045829	0	0.30630E-07	545100.7	3756373.4	296.0	0.00	1.70	0.76	YES	

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L0045830        0   0.30630E-07  545104.4 3756373.4   296.0     0.00     1.70     0.76     YES
L0045831        0   0.30630E-07  545108.0 3756373.3   296.0     0.00     1.70     0.76     YES
L0045832        0   0.30630E-07  545111.7 3756373.3   296.0     0.00     1.70     0.76     YES
L0045833        0   0.30630E-07  545115.3 3756373.3   296.0     0.00     1.70     0.76     YES
L0045834        0   0.30630E-07  545119.0 3756373.2   295.9     0.00     1.70     0.76     YES
L0045835        0   0.30630E-07  545122.7 3756373.2   295.9     0.00     1.70     0.76     YES
L0045836        0   0.30630E-07  545126.3 3756373.2   295.8     0.00     1.70     0.76     YES
L0045837        0   0.30630E-07  545130.0 3756373.2   295.8     0.00     1.70     0.76     YES
L0045838        0   0.30630E-07  545133.6 3756373.1   295.7     0.00     1.70     0.76     YES
L0045839        0   0.30630E-07  545137.3 3756373.1   295.7     0.00     1.70     0.76     YES
L0045840        0   0.30630E-07  545140.9 3756373.1   295.6     0.00     1.70     0.76     YES
L0045841        0   0.30630E-07  545144.6 3756373.0   295.6     0.00     1.70     0.76     YES
L0045842        0   0.30630E-07  545148.3 3756373.0   295.6     0.00     1.70     0.76     YES
L0045843        0   0.30630E-07  545151.9 3756373.0   295.5     0.00     1.70     0.76     YES
L0045844        0   0.30630E-07  545155.6 3756372.9   295.5     0.00     1.70     0.76     YES
L0045845        0   0.30630E-07  545159.2 3756372.9   295.5     0.00     1.70     0.76     YES
L0045846        0   0.30630E-07  545162.9 3756372.9   295.4     0.00     1.70     0.76     YES
L0045847        0   0.30630E-07  545166.5 3756372.8   295.4     0.00     1.70     0.76     YES
L0045848        0   0.30630E-07  545170.2 3756372.8   295.4     0.00     1.70     0.76     YES
L0045849        0   0.30630E-07  545173.9 3756372.8   295.4     0.00     1.70     0.76     YES
L0045850        0   0.30630E-07  545177.5 3756372.8   295.4     0.00     1.70     0.76     YES
L0045851        0   0.30630E-07  545181.2 3756372.7   295.4     0.00     1.70     0.76     YES
L0045852        0   0.30630E-07  545184.8 3756372.7   295.4     0.00     1.70     0.76     YES
L0045853        0   0.30630E-07  545188.5 3756372.7   295.4     0.00     1.70     0.76     YES
L0045854        0   0.30630E-07  545192.2 3756372.6   295.4     0.00     1.70     0.76     YES
L0045855        0   0.30630E-07  545195.8 3756372.6   295.3     0.00     1.70     0.76     YES
L0045856        0   0.30630E-07  545199.5 3756372.6   295.3     0.00     1.70     0.76     YES
L0045857        0   0.30630E-07  545203.1 3756372.5   295.3     0.00     1.70     0.76     YES
L0045858        0   0.30630E-07  545206.8 3756372.5   295.2     0.00     1.70     0.76     YES
L0045859        0   0.30630E-07  545210.4 3756372.5   295.2     0.00     1.70     0.76     YES
L0045860        0   0.30630E-07  545214.1 3756372.4   295.2     0.00     1.70     0.76     YES
L0045861        0   0.30630E-07  545217.8 3756372.4   295.1     0.00     1.70     0.76     YES
L0045862        0   0.30630E-07  545221.4 3756372.4   295.1     0.00     1.70     0.76     YES
L0045863        0   0.30630E-07  545225.1 3756372.4   295.1     0.00     1.70     0.76     YES
L0045864        0   0.30630E-07  545228.7 3756372.3   295.1     0.00     1.70     0.76     YES
L0045865        0   0.30630E-07  545232.4 3756372.3   295.1     0.00     1.70     0.76     YES
L0045866        0   0.30630E-07  545236.0 3756372.3   295.1     0.00     1.70     0.76     YES
L0045867        0   0.30630E-07  545239.7 3756372.2   295.0     0.00     1.70     0.76     YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY

L0045868	0	0.30630E-07	545243.4	3756372.2	295.0	0.00	1.70	0.76	YES
L0045869	0	0.30630E-07	545247.0	3756372.2	295.0	0.00	1.70	0.76	YES
L0045870	0	0.30630E-07	545250.7	3756372.1	294.9	0.00	1.70	0.76	YES
L0045871	0	0.30630E-07	545254.3	3756372.1	294.9	0.00	1.70	0.76	YES
L0045872	0	0.30630E-07	545258.0	3756372.1	294.9	0.00	1.70	0.76	YES
L0045873	0	0.30630E-07	545261.6	3756372.0	294.9	0.00	1.70	0.76	YES
L0045874	0	0.30630E-07	545265.3	3756372.0	294.9	0.00	1.70	0.76	YES
L0045875	0	0.30630E-07	545269.0	3756372.0	294.8	0.00	1.70	0.76	YES
L0045876	0	0.30630E-07	545272.6	3756372.0	294.8	0.00	1.70	0.76	YES
L0045877	0	0.30630E-07	545276.3	3756371.9	294.8	0.00	1.70	0.76	YES
L0045878	0	0.30630E-07	545279.9	3756371.9	294.8	0.00	1.70	0.76	YES
L0045879	0	0.30630E-07	545283.6	3756371.9	294.7	0.00	1.70	0.76	YES
L0045880	0	0.30630E-07	545287.2	3756371.8	294.7	0.00	1.70	0.76	YES
L0045881	0	0.30630E-07	545290.9	3756371.8	294.7	0.00	1.70	0.76	YES
L0045882	0	0.30630E-07	545294.6	3756371.8	294.7	0.00	1.70	0.76	YES
L0045883	0	0.30630E-07	545298.2	3756371.7	294.6	0.00	1.70	0.76	YES
L0045884	0	0.30630E-07	545301.9	3756371.7	294.6	0.00	1.70	0.76	YES
L0045885	0	0.30630E-07	545305.5	3756371.7	294.6	0.00	1.70	0.76	YES
L0045886	0	0.30630E-07	545309.2	3756371.6	294.6	0.00	1.70	0.76	YES
L0045887	0	0.30630E-07	545312.8	3756371.6	294.6	0.00	1.70	0.76	YES
L0045888	0	0.30630E-07	545316.5	3756371.6	294.5	0.00	1.70	0.76	YES
L0045889	0	0.30630E-07	545320.2	3756371.6	294.5	0.00	1.70	0.76	YES
L0045890	0	0.30630E-07	545323.8	3756371.5	294.5	0.00	1.70	0.76	YES
L0045891	0	0.30630E-07	545327.5	3756371.5	294.4	0.00	1.70	0.76	YES
L0045892	0	0.30630E-07	545331.1	3756371.5	294.4	0.00	1.70	0.76	YES
L0045893	0	0.30630E-07	545334.8	3756371.4	294.4	0.00	1.70	0.76	YES
L0045894	0	0.30630E-07	545338.5	3756371.4	294.4	0.00	1.70	0.76	YES
L0045895	0	0.30630E-07	545342.1	3756371.4	294.3	0.00	1.70	0.76	YES
L0045896	0	0.30630E-07	545345.8	3756371.3	294.3	0.00	1.70	0.76	YES
L0045897	0	0.30630E-07	545349.4	3756371.3	294.3	0.00	1.70	0.76	YES
L0045898	0	0.30630E-07	545353.1	3756371.3	294.2	0.00	1.70	0.76	YES
L0045899	0	0.30630E-07	545356.7	3756371.2	294.2	0.00	1.70	0.76	YES
L0045900	0	0.30630E-07	545360.4	3756371.2	294.2	0.00	1.70	0.76	YES
L0045901	0	0.30630E-07	545364.1	3756371.2	294.1	0.00	1.70	0.76	YES
L0045902	0	0.30630E-07	545367.7	3756371.2	294.1	0.00	1.70	0.76	YES
L0045903	0	0.30630E-07	545371.4	3756371.1	294.0	0.00	1.70	0.76	YES
L0045904	0	0.30630E-07	545375.0	3756371.1	294.0	0.00	1.70	0.76	YES
L0045905	0	0.30630E-07	545378.7	3756371.1	293.9	0.00	1.70	0.76	YES
L0045906	0	0.30630E-07	545382.3	3756371.0	293.9	0.00	1.70	0.76	YES
L0045907	0	0.30630E-07	545386.0	3756371.0	293.8	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER	EMISSION RATE	BASE	RELEASE	INIT.	INIT.	URBAN	EMISSION RATE

SOURCE ID	PART. CATS.	(GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE	SCALAR VARY BY
L0045908	0	0.30630E-07	545389.7	3756371.0	293.8	0.00	1.70	0.76	YES	
L0045909	0	0.30630E-07	545393.3	3756370.9	293.7	0.00	1.70	0.76	YES	
L0045910	0	0.30630E-07	545397.0	3756370.9	293.7	0.00	1.70	0.76	YES	
L0045911	0	0.30630E-07	545400.6	3756370.9	293.6	0.00	1.70	0.76	YES	
L0045912	0	0.30630E-07	545404.3	3756370.8	293.6	0.00	1.70	0.76	YES	
L0045913	0	0.30630E-07	545407.9	3756370.8	293.5	0.00	1.70	0.76	YES	
L0045914	0	0.30630E-07	545411.6	3756370.8	293.5	0.00	1.70	0.76	YES	
L0045915	0	0.30630E-07	545415.3	3756370.8	293.4	0.00	1.70	0.76	YES	
L0045916	0	0.30630E-07	545418.9	3756370.7	293.4	0.00	1.70	0.76	YES	
L0045917	0	0.30630E-07	545422.6	3756370.7	293.3	0.00	1.70	0.76	YES	
L0045918	0	0.30630E-07	545426.2	3756370.7	293.3	0.00	1.70	0.76	YES	
L0045919	0	0.30630E-07	545429.9	3756370.6	293.3	0.00	1.70	0.76	YES	
L0045920	0	0.30630E-07	545433.5	3756370.6	293.2	0.00	1.70	0.76	YES	
L0045921	0	0.30630E-07	545437.2	3756370.6	293.2	0.00	1.70	0.76	YES	
L0045922	0	0.30630E-07	545440.9	3756370.5	293.2	0.00	1.70	0.76	YES	
L0045923	0	0.30630E-07	545444.5	3756370.5	293.1	0.00	1.70	0.76	YES	
L0045924	0	0.30630E-07	545448.2	3756370.5	293.1	0.00	1.70	0.76	YES	
L0045925	0	0.30630E-07	545451.8	3756370.4	293.1	0.00	1.70	0.76	YES	
L0045926	0	0.30630E-07	545455.5	3756370.4	293.1	0.00	1.70	0.76	YES	
L0045927	0	0.30630E-07	545459.1	3756370.4	293.0	0.00	1.70	0.76	YES	
L0045928	0	0.30630E-07	545462.8	3756370.4	293.0	0.00	1.70	0.76	YES	
L0045929	0	0.30630E-07	545466.5	3756370.3	293.0	0.00	1.70	0.76	YES	
L0045930	0	0.30630E-07	545470.1	3756370.3	292.9	0.00	1.70	0.76	YES	
L0045931	0	0.30630E-07	545473.8	3756370.3	292.9	0.00	1.70	0.76	YES	
L0045932	0	0.30630E-07	545477.4	3756370.2	292.9	0.00	1.70	0.76	YES	
L0045933	0	0.30630E-07	545481.1	3756370.2	292.8	0.00	1.70	0.76	YES	
L0045934	0	0.30630E-07	545484.7	3756370.2	292.8	0.00	1.70	0.76	YES	
L0045935	0	0.30630E-07	545488.4	3756370.1	292.8	0.00	1.70	0.76	YES	
L0045936	0	0.30630E-07	545492.1	3756370.1	292.7	0.00	1.70	0.76	YES	
L0045937	0	0.30630E-07	545495.7	3756370.1	292.7	0.00	1.70	0.76	YES	
L0045938	0	0.30630E-07	545499.4	3756370.0	292.7	0.00	1.70	0.76	YES	
L0045939	0	0.30630E-07	545503.0	3756370.0	292.7	0.00	1.70	0.76	YES	
L0045940	0	0.30630E-07	545506.7	3756370.0	292.6	0.00	1.70	0.76	YES	
L0045941	0	0.30630E-07	545510.4	3756370.0	292.6	0.00	1.70	0.76	YES	
L0045942	0	0.30630E-07	545514.0	3756369.9	292.6	0.00	1.70	0.76	YES	
L0045943	0	0.30630E-07	545517.7	3756369.9	292.6	0.00	1.70	0.76	YES	
L0045944	0	0.30630E-07	545521.3	3756369.9	292.6	0.00	1.70	0.76	YES	
L0045945	0	0.30630E-07	545525.0	3756369.8	292.6	0.00	1.70	0.76	YES	
L0045946	0	0.30630E-07	545528.6	3756369.8	292.6	0.00	1.70	0.76	YES	
L0045947	0	0.30630E-07	545532.3	3756369.8	292.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0045948	0	0.30630E-07	545536.0	3756369.7	292.5	0.00	1.70	0.76	YES	
L0045949	0	0.30630E-07	545539.6	3756369.7	292.5	0.00	1.70	0.76	YES	
L0045950	0	0.30630E-07	545543.3	3756369.7	292.5	0.00	1.70	0.76	YES	
L0045951	0	0.30630E-07	545546.9	3756369.6	292.5	0.00	1.70	0.76	YES	
L0045952	0	0.30630E-07	545550.6	3756369.6	292.4	0.00	1.70	0.76	YES	
L0045953	0	0.30630E-07	545554.2	3756369.6	292.4	0.00	1.70	0.76	YES	
L0045954	0	0.30630E-07	545557.9	3756369.6	292.4	0.00	1.70	0.76	YES	
L0045955	0	0.30630E-07	545561.6	3756369.5	292.3	0.00	1.70	0.76	YES	
L0045956	0	0.30630E-07	545565.2	3756369.5	292.3	0.00	1.70	0.76	YES	
L0045957	0	0.30630E-07	545568.9	3756369.5	292.3	0.00	1.70	0.76	YES	
L0045958	0	0.30630E-07	545572.5	3756369.4	292.2	0.00	1.70	0.76	YES	
L0045959	0	0.30630E-07	545576.2	3756369.4	292.2	0.00	1.70	0.76	YES	
L0045960	0	0.30630E-07	545579.8	3756369.4	292.2	0.00	1.70	0.76	YES	
L0045961	0	0.30630E-07	545583.5	3756369.3	292.1	0.00	1.70	0.76	YES	
L0045962	0	0.30630E-07	545587.2	3756369.3	292.1	0.00	1.70	0.76	YES	
L0045963	0	0.30630E-07	545590.8	3756369.3	292.1	0.00	1.70	0.76	YES	
L0045964	0	0.30630E-07	545594.5	3756369.2	292.0	0.00	1.70	0.76	YES	
L0045965	0	0.30630E-07	545598.1	3756369.2	292.0	0.00	1.70	0.76	YES	
L0045966	0	0.30630E-07	545601.8	3756369.2	291.9	0.00	1.70	0.76	YES	
L0045967	0	0.30630E-07	545605.4	3756369.2	291.9	0.00	1.70	0.76	YES	
L0045968	0	0.30630E-07	545609.1	3756369.1	291.8	0.00	1.70	0.76	YES	
L0045969	0	0.30630E-07	545612.8	3756369.1	291.8	0.00	1.70	0.76	YES	
L0045970	0	0.30630E-07	545616.4	3756369.1	291.7	0.00	1.70	0.76	YES	
L0045971	0	0.30630E-07	545620.1	3756369.0	291.6	0.00	1.70	0.76	YES	
L0045972	0	0.30630E-07	545623.7	3756369.0	291.6	0.00	1.70	0.76	YES	
L0045973	0	0.30630E-07	545627.4	3756369.0	291.5	0.00	1.70	0.76	YES	
L0045974	0	0.30630E-07	545631.0	3756368.9	291.5	0.00	1.70	0.76	YES	
L0045975	0	0.30630E-07	545634.7	3756368.9	291.4	0.00	1.70	0.76	YES	
L0045976	0	0.30630E-07	545638.4	3756369.0	291.4	0.00	1.70	0.76	YES	
L0045977	0	0.30630E-07	545642.0	3756369.0	291.3	0.00	1.70	0.76	YES	
L0045978	0	0.30630E-07	545645.7	3756369.0	291.3	0.00	1.70	0.76	YES	
L0045979	0	0.30630E-07	545649.3	3756369.1	291.2	0.00	1.70	0.76	YES	
L0045980	0	0.30630E-07	545653.0	3756369.1	291.2	0.00	1.70	0.76	YES	
L0045981	0	0.30630E-07	545656.6	3756369.2	291.2	0.00	1.70	0.76	YES	
L0045982	0	0.30630E-07	545660.3	3756369.2	291.1	0.00	1.70	0.76	YES	
L0045983	0	0.30630E-07	545664.0	3756369.2	291.1	0.00	1.70	0.76	YES	
L0045984	0	0.30630E-07	545667.6	3756369.3	291.0	0.00	1.70	0.76	YES	
L0045985	0	0.30630E-07	545671.3	3756369.3	291.0	0.00	1.70	0.76	YES	
L0045986	0	0.30630E-07	545674.9	3756369.4	290.9	0.00	1.70	0.76	YES	
L0045987	0	0.30630E-07	545678.6	3756369.4	290.9	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0045988	0	0.30630E-07	545682.3	3756369.5	290.8	0.00	1.70	0.76	YES	
L0045989	0	0.30630E-07	545685.9	3756369.5	290.8	0.00	1.70	0.76	YES	
L0045990	0	0.30630E-07	545689.6	3756369.5	290.7	0.00	1.70	0.76	YES	
L0045991	0	0.30630E-07	545693.2	3756369.6	290.7	0.00	1.70	0.76	YES	
L0045992	0	0.30630E-07	545696.9	3756369.6	290.6	0.00	1.70	0.76	YES	
L0045993	0	0.30630E-07	545700.5	3756369.7	290.6	0.00	1.70	0.76	YES	
L0045994	0	0.30630E-07	545704.2	3756369.7	290.5	0.00	1.70	0.76	YES	
L0045995	0	0.30630E-07	545707.9	3756369.7	290.4	0.00	1.70	0.76	YES	
L0045996	0	0.30630E-07	545711.5	3756369.8	290.4	0.00	1.70	0.76	YES	
L0045997	0	0.30630E-07	545715.2	3756369.8	290.3	0.00	1.70	0.76	YES	
L0045998	0	0.30630E-07	545718.8	3756369.9	290.2	0.00	1.70	0.76	YES	
L0045999	0	0.30630E-07	545722.5	3756369.9	290.2	0.00	1.70	0.76	YES	
L0046000	0	0.30630E-07	545726.1	3756369.9	290.1	0.00	1.70	0.76	YES	
L0046001	0	0.30630E-07	545729.8	3756370.0	290.1	0.00	1.70	0.76	YES	
L0046002	0	0.30630E-07	545733.5	3756370.0	290.0	0.00	1.70	0.76	YES	
L0046003	0	0.30630E-07	545737.1	3756370.1	290.0	0.00	1.70	0.76	YES	
L0046004	0	0.30630E-07	545740.8	3756370.1	290.0	0.00	1.70	0.76	YES	
L0046005	0	0.30630E-07	545744.4	3756370.2	289.9	0.00	1.70	0.76	YES	
L0046006	0	0.30630E-07	545748.1	3756370.2	289.9	0.00	1.70	0.76	YES	
L0046007	0	0.30630E-07	545751.7	3756370.2	289.9	0.00	1.70	0.76	YES	
L0046008	0	0.30630E-07	545755.4	3756370.3	289.8	0.00	1.70	0.76	YES	
L0046009	0	0.30630E-07	545759.1	3756370.3	289.8	0.00	1.70	0.76	YES	
L0046010	0	0.30630E-07	545762.7	3756370.4	289.7	0.00	1.70	0.76	YES	
L0046011	0	0.30630E-07	545766.4	3756370.4	289.7	0.00	1.70	0.76	YES	
L0046012	0	0.30630E-07	545770.0	3756370.4	289.6	0.00	1.70	0.76	YES	
L0046013	0	0.30630E-07	545773.7	3756370.5	289.6	0.00	1.70	0.76	YES	
L0046014	0	0.30630E-07	545777.3	3756370.5	289.5	0.00	1.70	0.76	YES	
L0046015	0	0.30630E-07	545781.0	3756370.6	289.5	0.00	1.70	0.76	YES	
L0046016	0	0.30630E-07	545784.7	3756370.6	289.4	0.00	1.70	0.76	YES	
L0046017	0	0.30630E-07	545788.3	3756370.7	289.4	0.00	1.70	0.76	YES	
L0046018	0	0.30630E-07	545792.0	3756370.7	289.4	0.00	1.70	0.76	YES	
L0046019	0	0.30630E-07	545795.6	3756370.7	289.3	0.00	1.70	0.76	YES	
L0046020	0	0.30630E-07	545799.3	3756370.8	289.2	0.00	1.70	0.76	YES	
L0046021	0	0.30630E-07	545802.9	3756370.8	289.2	0.00	1.70	0.76	YES	
L0046022	0	0.30630E-07	545806.6	3756370.9	289.2	0.00	1.70	0.76	YES	
L0046023	0	0.30630E-07	545810.3	3756370.9	289.1	0.00	1.70	0.76	YES	
L0046024	0	0.30630E-07	545813.9	3756370.9	289.1	0.00	1.70	0.76	YES	
L0046025	0	0.30630E-07	545817.6	3756371.0	289.0	0.00	1.70	0.76	YES	
L0046026	0	0.30630E-07	545821.2	3756371.0	289.0	0.00	1.70	0.76	YES	
L0046027	0	0.30630E-07	545824.9	3756371.1	289.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046028	0	0.30630E-07	545828.5	3756371.1	288.9	0.00	1.70	0.76	YES	
L0046029	0	0.30630E-07	545832.2	3756371.2	288.9	0.00	1.70	0.76	YES	
L0046030	0	0.30630E-07	545835.9	3756371.2	288.8	0.00	1.70	0.76	YES	
L0046031	0	0.30630E-07	545839.5	3756371.2	288.8	0.00	1.70	0.76	YES	
L0046032	0	0.30630E-07	545843.2	3756371.3	288.8	0.00	1.70	0.76	YES	
L0046033	0	0.30630E-07	545846.8	3756371.3	288.7	0.00	1.70	0.76	YES	
L0046034	0	0.30630E-07	545850.5	3756371.4	288.7	0.00	1.70	0.76	YES	
L0046035	0	0.30630E-07	545854.1	3756371.4	288.7	0.00	1.70	0.76	YES	
L0046036	0	0.30630E-07	545857.8	3756371.4	288.6	0.00	1.70	0.76	YES	
L0046037	0	0.30630E-07	545861.5	3756371.5	288.6	0.00	1.70	0.76	YES	
L0046038	0	0.30630E-07	545865.1	3756371.5	288.6	0.00	1.70	0.76	YES	
L0046039	0	0.30630E-07	545868.8	3756371.6	288.5	0.00	1.70	0.76	YES	
L0046040	0	0.30630E-07	545872.4	3756371.6	288.5	0.00	1.70	0.76	YES	
L0046041	0	0.30630E-07	545876.1	3756371.6	288.4	0.00	1.70	0.76	YES	
L0046042	0	0.30630E-07	545879.7	3756371.7	288.4	0.00	1.70	0.76	YES	
L0046043	0	0.30630E-07	545883.4	3756371.7	288.4	0.00	1.70	0.76	YES	
L0046044	0	0.30630E-07	545887.1	3756371.8	288.3	0.00	1.70	0.76	YES	
L0046045	0	0.30630E-07	545890.7	3756371.8	288.3	0.00	1.70	0.76	YES	
L0046046	0	0.30630E-07	545894.4	3756371.9	288.3	0.00	1.70	0.76	YES	
L0046047	0	0.30630E-07	545898.0	3756371.9	288.2	0.00	1.70	0.76	YES	
L0046048	0	0.30630E-07	545901.7	3756371.9	288.2	0.00	1.70	0.76	YES	
L0046049	0	0.30630E-07	545905.4	3756372.0	288.2	0.00	1.70	0.76	YES	
L0046050	0	0.30630E-07	545909.0	3756372.0	288.1	0.00	1.70	0.76	YES	
L0046051	0	0.30630E-07	545912.7	3756372.1	288.1	0.00	1.70	0.76	YES	
L0046052	0	0.30630E-07	545916.3	3756372.1	288.1	0.00	1.70	0.76	YES	
L0046053	0	0.30630E-07	545920.0	3756372.1	288.1	0.00	1.70	0.76	YES	
L0046054	0	0.30630E-07	545923.6	3756372.2	288.0	0.00	1.70	0.76	YES	
L0046055	0	0.30630E-07	545927.3	3756372.2	288.0	0.00	1.70	0.76	YES	
L0046056	0	0.30630E-07	545931.0	3756372.3	288.0	0.00	1.70	0.76	YES	
L0046057	0	0.30630E-07	545934.6	3756372.3	288.0	0.00	1.70	0.76	YES	
L0046058	0	0.30630E-07	545938.3	3756372.4	287.9	0.00	1.70	0.76	YES	
L0046059	0	0.30630E-07	545941.9	3756372.4	287.9	0.00	1.70	0.76	YES	
L0046060	0	0.30630E-07	545945.6	3756372.4	287.9	0.00	1.70	0.76	YES	
L0046061	0	0.30630E-07	545949.2	3756372.5	287.8	0.00	1.70	0.76	YES	
L0046062	0	0.30630E-07	545952.9	3756372.5	287.8	0.00	1.70	0.76	YES	
L0046063	0	0.30630E-07	545956.6	3756372.6	287.7	0.00	1.70	0.76	YES	
L0046064	0	0.30630E-07	545960.2	3756372.6	287.7	0.00	1.70	0.76	YES	
L0046065	0	0.30630E-07	545963.9	3756372.6	287.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046066	0	0.30630E-07	545967.5	3756372.7	287.6	0.00	1.70	0.76	YES	
L0046067	0	0.30630E-07	545971.2	3756372.7	287.6	0.00	1.70	0.76	YES	
L0046068	0	0.30630E-07	545974.8	3756372.8	287.5	0.00	1.70	0.76	YES	
L0046069	0	0.30630E-07	545978.5	3756372.8	287.5	0.00	1.70	0.76	YES	
L0046070	0	0.30630E-07	545982.2	3756372.8	287.4	0.00	1.70	0.76	YES	
L0046071	0	0.30630E-07	545985.8	3756372.9	287.4	0.00	1.70	0.76	YES	
L0046072	0	0.30630E-07	545989.5	3756372.9	287.3	0.00	1.70	0.76	YES	
L0046073	0	0.30630E-07	545993.1	3756373.0	287.2	0.00	1.70	0.76	YES	
L0046074	0	0.30630E-07	545996.8	3756373.0	287.2	0.00	1.70	0.76	YES	
L0046075	0	0.30630E-07	546000.4	3756373.1	287.1	0.00	1.70	0.76	YES	
L0046076	0	0.30630E-07	546004.1	3756373.1	287.1	0.00	1.70	0.76	YES	
L0046077	0	0.30630E-07	546007.8	3756373.1	287.0	0.00	1.70	0.76	YES	
L0046078	0	0.30630E-07	546011.4	3756373.2	286.9	0.00	1.70	0.76	YES	
L0046079	0	0.30630E-07	546015.1	3756373.2	286.9	0.00	1.70	0.76	YES	
L0046080	0	0.30630E-07	546018.7	3756373.3	286.9	0.00	1.70	0.76	YES	
L0046081	0	0.30630E-07	546022.4	3756373.3	286.8	0.00	1.70	0.76	YES	
L0046082	0	0.30630E-07	546026.0	3756373.3	286.8	0.00	1.70	0.76	YES	
L0046083	0	0.30630E-07	546029.7	3756373.4	286.7	0.00	1.70	0.76	YES	
L0046084	0	0.30630E-07	546033.4	3756373.4	286.7	0.00	1.70	0.76	YES	
L0046085	0	0.30630E-07	546037.0	3756373.5	286.6	0.00	1.70	0.76	YES	
L0046086	0	0.30630E-07	546040.7	3756373.5	286.6	0.00	1.70	0.76	YES	
L0046087	0	0.30630E-07	546044.3	3756373.6	286.5	0.00	1.70	0.76	YES	
L0046088	0	0.30630E-07	546048.0	3756373.6	286.4	0.00	1.70	0.76	YES	
L0046089	0	0.30630E-07	546051.6	3756373.6	286.4	0.00	1.70	0.76	YES	
L0046090	0	0.30630E-07	546055.3	3756373.7	286.4	0.00	1.70	0.76	YES	
L0046091	0	0.30630E-07	546059.0	3756373.7	286.3	0.00	1.70	0.76	YES	
L0046092	0	0.30630E-07	546062.6	3756373.8	286.2	0.00	1.70	0.76	YES	
L0046093	0	0.30630E-07	546066.3	3756373.8	286.2	0.00	1.70	0.76	YES	
L0046094	0	0.30630E-07	546069.9	3756373.8	286.1	0.00	1.70	0.76	YES	
L0046095	0	0.30630E-07	546073.6	3756373.9	286.1	0.00	1.70	0.76	YES	
L0046096	0	0.30630E-07	546077.2	3756373.9	286.0	0.00	1.70	0.76	YES	
L0046097	0	0.30630E-07	546080.9	3756374.0	286.0	0.00	1.70	0.76	YES	
L0041736	0	0.32650E-07	543688.4	3756370.2	307.9	0.00	1.70	0.76	YES	
L0041737	0	0.32650E-07	543688.3	3756373.9	307.9	0.00	1.70	0.76	YES	
L0041738	0	0.32650E-07	543688.3	3756377.5	308.0	0.00	1.70	0.76	YES	
L0041739	0	0.32650E-07	543688.3	3756381.2	308.1	0.00	1.70	0.76	YES	
L0041740	0	0.32650E-07	543688.2	3756384.8	308.1	0.00	1.70	0.76	YES	

L0041741	0	0.32650E-07	543688.2	3756388.5	308.2	0.00	1.70	0.76	YES
L0041742	0	0.32650E-07	543688.1	3756392.2	308.3	0.00	1.70	0.76	YES
L0041743	0	0.32650E-07	543688.1	3756395.8	308.4	0.00	1.70	0.76	YES
L0041744	0	0.32650E-07	543688.1	3756399.5	308.5	0.00	1.70	0.76	YES
L0041745	0	0.32650E-07	543688.0	3756403.1	308.6	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0041746	0	0.32650E-07	543688.0	3756406.8	308.7	0.00	1.70	0.76	YES	
L0041747	0	0.32650E-07	543687.9	3756410.5	308.8	0.00	1.70	0.76	YES	
L0041748	0	0.32650E-07	543687.9	3756414.1	308.8	0.00	1.70	0.76	YES	
L0041749	0	0.32650E-07	543687.9	3756417.8	308.9	0.00	1.70	0.76	YES	
L0041750	0	0.32650E-07	543687.8	3756421.4	309.0	0.00	1.70	0.76	YES	
L0041751	0	0.32650E-07	543687.8	3756425.1	309.1	0.00	1.70	0.76	YES	
L0041752	0	0.32650E-07	543687.7	3756428.7	309.2	0.00	1.70	0.76	YES	
L0041753	0	0.32650E-07	543687.7	3756432.4	309.3	0.00	1.70	0.76	YES	
L0041754	0	0.32650E-07	543687.7	3756436.1	309.4	0.00	1.70	0.76	YES	
L0041755	0	0.32650E-07	543687.6	3756439.7	309.5	0.00	1.70	0.76	YES	
L0041756	0	0.32650E-07	543687.6	3756443.4	309.6	0.00	1.70	0.76	YES	
L0041757	0	0.32650E-07	543687.5	3756447.0	309.6	0.00	1.70	0.76	YES	
L0041758	0	0.32650E-07	543687.5	3756450.7	309.7	0.00	1.70	0.76	YES	
L0041759	0	0.32650E-07	543687.5	3756454.3	309.8	0.00	1.70	0.76	YES	
L0041760	0	0.32650E-07	543687.4	3756458.0	309.9	0.00	1.70	0.76	YES	
L0041761	0	0.32650E-07	543687.4	3756461.7	309.9	0.00	1.70	0.76	YES	
L0041762	0	0.32650E-07	543687.3	3756465.3	310.0	0.00	1.70	0.76	YES	
L0041763	0	0.32650E-07	543687.3	3756469.0	310.0	0.00	1.70	0.76	YES	
L0041764	0	0.32650E-07	543687.3	3756472.6	310.1	0.00	1.70	0.76	YES	
L0041765	0	0.32650E-07	543687.2	3756476.3	310.2	0.00	1.70	0.76	YES	
L0041766	0	0.32650E-07	543687.2	3756479.9	310.2	0.00	1.70	0.76	YES	
L0041767	0	0.32650E-07	543687.2	3756483.6	310.3	0.00	1.70	0.76	YES	
L0041768	0	0.32650E-07	543687.1	3756487.3	310.3	0.00	1.70	0.76	YES	
L0041769	0	0.32650E-07	543687.1	3756490.9	310.4	0.00	1.70	0.76	YES	
L0041770	0	0.32650E-07	543687.0	3756494.6	310.4	0.00	1.70	0.76	YES	
L0041771	0	0.32650E-07	543687.0	3756498.2	310.5	0.00	1.70	0.76	YES	
L0041772	0	0.32650E-07	543687.0	3756501.9	310.6	0.00	1.70	0.76	YES	
L0041773	0	0.32650E-07	543686.9	3756505.5	310.6	0.00	1.70	0.76	YES	
L0041774	0	0.32650E-07	543686.9	3756509.2	310.7	0.00	1.70	0.76	YES	
L0041775	0	0.32650E-07	543686.8	3756512.9	310.7	0.00	1.70	0.76	YES	
L0041776	0	0.32650E-07	543686.8	3756516.5	310.8	0.00	1.70	0.76	YES	
L0041777	0	0.32650E-07	543686.8	3756520.2	310.8	0.00	1.70	0.76	YES	

L0041778	0	0.32650E-07	543686.7	3756523.8	310.9	0.00	1.70	0.76	YES	
L0041779	0	0.32650E-07	543686.7	3756527.5	310.9	0.00	1.70	0.76	YES	
L0041780	0	0.32650E-07	543686.6	3756531.1	310.9	0.00	1.70	0.76	YES	
L0041781	0	0.32650E-07	543686.6	3756534.8	311.0	0.00	1.70	0.76	YES	
L0041782	0	0.32650E-07	543686.6	3756538.5	311.1	0.00	1.70	0.76	YES	
L0041783	0	0.32650E-07	543686.5	3756542.1	311.1	0.00	1.70	0.76	YES	
L0041784	0	0.32650E-07	543686.5	3756545.8	311.2	0.00	1.70	0.76	YES	
L0041785	0	0.32650E-07	543686.4	3756549.4	311.2	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0041786	0	0.32650E-07	543686.4	3756553.1	311.2	0.00	1.70	0.76	YES	
L0041787	0	0.32650E-07	543686.4	3756556.7	311.3	0.00	1.70	0.76	YES	
L0041788	0	0.32650E-07	543686.3	3756560.4	311.4	0.00	1.70	0.76	YES	
L0041789	0	0.32650E-07	543686.3	3756564.1	311.4	0.00	1.70	0.76	YES	
L0041790	0	0.32650E-07	543686.2	3756567.7	311.4	0.00	1.70	0.76	YES	
L0041791	0	0.32650E-07	543686.2	3756571.4	311.5	0.00	1.70	0.76	YES	
L0041792	0	0.32650E-07	543686.2	3756575.0	311.6	0.00	1.70	0.76	YES	
L0041793	0	0.32650E-07	543686.1	3756578.7	311.6	0.00	1.70	0.76	YES	
L0041794	0	0.32650E-07	543686.1	3756582.3	311.7	0.00	1.70	0.76	YES	
L0041795	0	0.32650E-07	543686.0	3756586.0	311.7	0.00	1.70	0.76	YES	
L0041796	0	0.32650E-07	543686.0	3756589.7	311.8	0.00	1.70	0.76	YES	
L0041797	0	0.32650E-07	543686.0	3756593.3	311.8	0.00	1.70	0.76	YES	
L0041798	0	0.32650E-07	543685.9	3756597.0	311.9	0.00	1.70	0.76	YES	
L0041799	0	0.32650E-07	543685.9	3756600.6	311.9	0.00	1.70	0.76	YES	
L0041800	0	0.32650E-07	543685.9	3756604.3	312.0	0.00	1.70	0.76	YES	
L0041801	0	0.32650E-07	543685.8	3756607.9	312.0	0.00	1.70	0.76	YES	
L0041802	0	0.32650E-07	543685.8	3756611.6	312.1	0.00	1.70	0.76	YES	
L0041803	0	0.32650E-07	543685.7	3756615.3	312.1	0.00	1.70	0.76	YES	
L0041804	0	0.32650E-07	543685.7	3756618.9	312.2	0.00	1.70	0.76	YES	
L0041805	0	0.32650E-07	543685.7	3756622.6	312.3	0.00	1.70	0.76	YES	
L0041806	0	0.32650E-07	543685.6	3756626.2	312.3	0.00	1.70	0.76	YES	
L0041807	0	0.32650E-07	543685.6	3756629.9	312.4	0.00	1.70	0.76	YES	
L0041808	0	0.32650E-07	543685.5	3756633.6	312.4	0.00	1.70	0.76	YES	
L0041809	0	0.32650E-07	543685.5	3756637.2	312.5	0.00	1.70	0.76	YES	
L0041810	0	0.32650E-07	543685.5	3756640.9	312.6	0.00	1.70	0.76	YES	
L0041811	0	0.32650E-07	543685.4	3756644.5	312.6	0.00	1.70	0.76	YES	
L0041812	0	0.32650E-07	543685.4	3756648.2	312.7	0.00	1.70	0.76	YES	
L0041813	0	0.32650E-07	543685.3	3756651.8	312.8	0.00	1.70	0.76	YES	
L0041814	0	0.32650E-07	543685.3	3756655.5	312.8	0.00	1.70	0.76	YES	

L0041815	0	0.32650E-07	543685.3	3756659.2	312.9	0.00	1.70	0.76	YES
L0041816	0	0.32650E-07	543685.2	3756662.8	312.9	0.00	1.70	0.76	YES
L0041817	0	0.32650E-07	543685.2	3756666.5	313.0	0.00	1.70	0.76	YES
L0041818	0	0.32650E-07	543685.1	3756670.1	313.1	0.00	1.70	0.76	YES
L0041819	0	0.32650E-07	543685.1	3756673.8	313.2	0.00	1.70	0.76	YES
L0041820	0	0.32650E-07	543685.1	3756677.4	313.2	0.00	1.70	0.76	YES
L0041821	0	0.32650E-07	543685.0	3756681.1	313.3	0.00	1.70	0.76	YES
L0041822	0	0.32650E-07	543685.0	3756684.8	313.4	0.00	1.70	0.76	YES
L0041823	0	0.32650E-07	543684.9	3756688.4	313.5	0.00	1.70	0.76	YES
L0041824	0	0.32650E-07	543684.9	3756692.1	313.5	0.00	1.70	0.76	YES
L0041825	0	0.32650E-07	543684.9	3756695.7	313.6	0.00	1.70	0.76	YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0041826	0	0.32650E-07	543684.8	3756699.4	313.7	0.00	1.70	0.76	YES	
L0041827	0	0.32650E-07	543684.8	3756703.0	313.8	0.00	1.70	0.76	YES	
L0041828	0	0.32650E-07	543684.7	3756706.7	313.8	0.00	1.70	0.76	YES	
L0041829	0	0.32650E-07	543684.7	3756710.4	313.9	0.00	1.70	0.76	YES	
L0041830	0	0.32650E-07	543684.7	3756714.0	314.0	0.00	1.70	0.76	YES	
L0041831	0	0.32650E-07	543684.6	3756717.7	314.1	0.00	1.70	0.76	YES	
L0041832	0	0.32650E-07	543684.6	3756721.3	314.2	0.00	1.70	0.76	YES	
L0041833	0	0.32650E-07	543684.5	3756725.0	314.2	0.00	1.70	0.76	YES	
L0041834	0	0.32650E-07	543684.5	3756728.6	314.3	0.00	1.70	0.76	YES	
L0041835	0	0.32650E-07	543684.5	3756732.3	314.4	0.00	1.70	0.76	YES	
L0041836	0	0.32650E-07	543684.4	3756736.0	314.5	0.00	1.70	0.76	YES	
L0041837	0	0.32650E-07	543684.4	3756739.6	314.5	0.00	1.70	0.76	YES	
L0041838	0	0.32650E-07	543684.4	3756743.3	314.6	0.00	1.70	0.76	YES	
L0041839	0	0.32650E-07	543684.3	3756746.9	314.7	0.00	1.70	0.76	YES	
L0041840	0	0.32650E-07	543684.3	3756750.6	314.8	0.00	1.70	0.76	YES	
L0041841	0	0.32650E-07	543684.2	3756754.2	314.9	0.00	1.70	0.76	YES	
L0041842	0	0.32650E-07	543684.2	3756757.9	314.9	0.00	1.70	0.76	YES	
L0041843	0	0.32650E-07	543684.2	3756761.6	315.0	0.00	1.70	0.76	YES	
L0041844	0	0.32650E-07	543684.1	3756765.2	315.1	0.00	1.70	0.76	YES	
L0041845	0	0.32650E-07	543684.1	3756768.9	315.2	0.00	1.70	0.76	YES	
L0041846	0	0.32650E-07	543684.0	3756772.5	315.2	0.00	1.70	0.76	YES	
L0041847	0	0.32650E-07	543684.0	3756776.2	315.3	0.00	1.70	0.76	YES	
L0041848	0	0.32650E-07	543684.0	3756779.8	315.4	0.00	1.70	0.76	YES	
L0041849	0	0.32650E-07	543683.9	3756783.5	315.4	0.00	1.70	0.76	YES	
L0041850	0	0.32650E-07	543683.9	3756787.2	315.5	0.00	1.70	0.76	YES	
L0041851	0	0.32650E-07	543683.8	3756790.8	315.6	0.00	1.70	0.76	YES	

L0041852	0	0.32650E-07	543683.8	3756794.5	315.7	0.00	1.70	0.76	YES	
L0041853	0	0.32650E-07	543683.8	3756798.1	315.7	0.00	1.70	0.76	YES	
L0041854	0	0.32650E-07	543683.7	3756801.8	315.8	0.00	1.70	0.76	YES	
L0041855	0	0.32650E-07	543683.7	3756805.4	315.9	0.00	1.70	0.76	YES	
L0041856	0	0.32650E-07	543683.6	3756809.1	315.9	0.00	1.70	0.76	YES	
L0041857	0	0.32650E-07	543683.6	3756812.8	316.0	0.00	1.70	0.76	YES	
L0041858	0	0.32650E-07	543683.6	3756816.4	316.1	0.00	1.70	0.76	YES	
L0041859	0	0.32650E-07	543683.5	3756820.1	316.1	0.00	1.70	0.76	YES	
L0041860	0	0.32650E-07	543683.5	3756823.7	316.2	0.00	1.70	0.76	YES	
L0041861	0	0.32650E-07	543683.4	3756827.4	316.3	0.00	1.70	0.76	YES	
L0041862	0	0.32650E-07	543683.4	3756831.1	316.3	0.00	1.70	0.76	YES	
L0041863	0	0.32650E-07	543683.4	3756834.7	316.4	0.00	1.70	0.76	YES	
L0041864	0	0.32650E-07	543683.3	3756838.4	316.4	0.00	1.70	0.76	YES	
L0041865	0	0.32650E-07	543683.3	3756842.0	316.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0041866	0	0.32650E-07	543683.2	3756845.7	316.6	0.00	1.70	0.76	YES	
L0041867	0	0.32650E-07	543683.2	3756849.3	316.6	0.00	1.70	0.76	YES	
L0041868	0	0.32650E-07	543683.2	3756853.0	316.7	0.00	1.70	0.76	YES	
L0041869	0	0.32650E-07	543683.1	3756856.7	316.8	0.00	1.70	0.76	YES	
L0041870	0	0.32650E-07	543683.1	3756860.3	316.8	0.00	1.70	0.76	YES	
L0041871	0	0.32650E-07	543683.1	3756864.0	316.9	0.00	1.70	0.76	YES	
L0041872	0	0.32650E-07	543683.0	3756867.6	317.0	0.00	1.70	0.76	YES	
L0041873	0	0.32650E-07	543683.0	3756871.3	317.0	0.00	1.70	0.76	YES	
L0041874	0	0.32650E-07	543682.9	3756874.9	317.1	0.00	1.70	0.76	YES	
L0041875	0	0.32650E-07	543682.9	3756878.6	317.2	0.00	1.70	0.76	YES	
L0041876	0	0.32650E-07	543682.9	3756882.3	317.2	0.00	1.70	0.76	YES	
L0041877	0	0.32650E-07	543682.8	3756885.9	317.3	0.00	1.70	0.76	YES	
L0041878	0	0.32650E-07	543682.8	3756889.6	317.4	0.00	1.70	0.76	YES	
L0041879	0	0.32650E-07	543682.7	3756893.2	317.4	0.00	1.70	0.76	YES	
L0041880	0	0.32650E-07	543682.7	3756896.9	317.5	0.00	1.70	0.76	YES	
L0041881	0	0.32650E-07	543682.7	3756900.5	317.6	0.00	1.70	0.76	YES	
L0041882	0	0.32650E-07	543682.6	3756904.2	317.7	0.00	1.70	0.76	YES	
L0041883	0	0.32650E-07	543682.6	3756907.9	317.7	0.00	1.70	0.76	YES	
L0041884	0	0.32650E-07	543682.5	3756911.5	317.8	0.00	1.70	0.76	YES	
L0041885	0	0.32650E-07	543682.5	3756915.2	317.9	0.00	1.70	0.76	YES	
L0041886	0	0.32650E-07	543682.5	3756918.8	317.9	0.00	1.70	0.76	YES	
L0041887	0	0.32650E-07	543682.4	3756922.5	318.0	0.00	1.70	0.76	YES	
L0041888	0	0.32650E-07	543682.4	3756926.1	318.1	0.00	1.70	0.76	YES	

L0041889	0	0.32650E-07	543682.3	3756929.8	318.2	0.00	1.70	0.76	YES	
L0041890	0	0.32650E-07	543682.3	3756933.5	318.2	0.00	1.70	0.76	YES	
L0041891	0	0.32650E-07	543682.3	3756937.1	318.3	0.00	1.70	0.76	YES	
L0041892	0	0.32650E-07	543682.2	3756940.8	318.4	0.00	1.70	0.76	YES	
L0041893	0	0.32650E-07	543682.2	3756944.4	318.5	0.00	1.70	0.76	YES	
L0041894	0	0.32650E-07	543682.1	3756948.1	318.6	0.00	1.70	0.76	YES	
L0041895	0	0.32650E-07	543682.1	3756951.7	318.6	0.00	1.70	0.76	YES	
L0041896	0	0.32650E-07	543682.1	3756955.4	318.7	0.00	1.70	0.76	YES	
L0041897	0	0.32650E-07	543682.0	3756959.1	318.8	0.00	1.70	0.76	YES	
L0041898	0	0.32650E-07	543682.0	3756962.7	318.9	0.00	1.70	0.76	YES	
L0041899	0	0.32650E-07	543681.9	3756966.4	318.9	0.00	1.70	0.76	YES	
L0041900	0	0.32650E-07	543681.9	3756970.0	319.0	0.00	1.70	0.76	YES	
L0041901	0	0.32650E-07	543681.9	3756973.7	319.1	0.00	1.70	0.76	YES	
L0041902	0	0.32650E-07	543681.8	3756977.3	319.2	0.00	1.70	0.76	YES	
L0041903	0	0.32650E-07	543681.8	3756981.0	319.2	0.00	1.70	0.76	YES	
L0041904	0	0.32650E-07	543681.7	3756984.7	319.3	0.00	1.70	0.76	YES	
L0041905	0	0.32650E-07	543681.7	3756988.3	319.4	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0041906	0	0.32650E-07	543681.7	3756992.0	319.5	0.00	1.70	0.76	YES	
L0041907	0	0.32650E-07	543681.6	3756995.6	319.6	0.00	1.70	0.76	YES	
L0041908	0	0.32650E-07	543681.6	3756999.3	319.6	0.00	1.70	0.76	YES	
L0041909	0	0.32650E-07	543681.6	3757002.9	319.7	0.00	1.70	0.76	YES	
L0041910	0	0.32650E-07	543681.5	3757006.6	319.8	0.00	1.70	0.76	YES	
L0041911	0	0.32650E-07	543681.5	3757010.3	319.9	0.00	1.70	0.76	YES	
L0041912	0	0.32650E-07	543681.4	3757013.9	319.9	0.00	1.70	0.76	YES	
L0041913	0	0.32650E-07	543681.4	3757017.6	320.0	0.00	1.70	0.76	YES	
L0041914	0	0.32650E-07	543681.4	3757021.2	320.1	0.00	1.70	0.76	YES	
L0041915	0	0.32650E-07	543681.3	3757024.9	320.2	0.00	1.70	0.76	YES	
L0041916	0	0.32650E-07	543681.3	3757028.5	320.2	0.00	1.70	0.76	YES	
L0041917	0	0.32650E-07	543681.2	3757032.2	320.3	0.00	1.70	0.76	YES	
L0041918	0	0.32650E-07	543681.2	3757035.9	320.4	0.00	1.70	0.76	YES	
L0041919	0	0.32650E-07	543681.2	3757039.5	320.5	0.00	1.70	0.76	YES	
L0041920	0	0.32650E-07	543681.1	3757043.2	320.6	0.00	1.70	0.76	YES	
L0041921	0	0.32650E-07	543681.1	3757046.8	320.7	0.00	1.70	0.76	YES	
L0041922	0	0.32650E-07	543681.0	3757050.5	320.8	0.00	1.70	0.76	YES	
L0041923	0	0.32650E-07	543681.0	3757054.2	320.9	0.00	1.70	0.76	YES	
L0041924	0	0.32650E-07	543681.0	3757057.8	321.0	0.00	1.70	0.76	YES	
L0041925	0	0.32650E-07	543680.9	3757061.5	321.1	0.00	1.70	0.76	YES	

L0041926	0	0.32650E-07	543680.9	3757065.1	321.2	0.00	1.70	0.76	YES	
L0041927	0	0.32650E-07	543680.8	3757068.8	321.3	0.00	1.70	0.76	YES	
L0041928	0	0.32650E-07	543680.8	3757072.4	321.4	0.00	1.70	0.76	YES	
L0041929	0	0.32650E-07	543680.8	3757076.1	321.5	0.00	1.70	0.76	YES	
L0041930	0	0.32650E-07	543680.7	3757079.8	321.6	0.00	1.70	0.76	YES	
L0041931	0	0.32650E-07	543680.7	3757083.4	321.7	0.00	1.70	0.76	YES	
L0041932	0	0.32650E-07	543680.6	3757087.1	321.8	0.00	1.70	0.76	YES	
L0041933	0	0.32650E-07	543680.6	3757090.7	321.9	0.00	1.70	0.76	YES	
L0041934	0	0.32650E-07	543680.6	3757094.4	322.0	0.00	1.70	0.76	YES	
L0041935	0	0.32650E-07	543680.5	3757098.0	322.1	0.00	1.70	0.76	YES	
L0041936	0	0.32650E-07	543680.5	3757101.7	322.2	0.00	1.70	0.76	YES	
L0041937	0	0.32650E-07	543680.4	3757105.4	322.3	0.00	1.70	0.76	YES	
L0041938	0	0.32650E-07	543680.4	3757109.0	322.4	0.00	1.70	0.76	YES	
L0041939	0	0.32650E-07	543680.4	3757112.7	322.4	0.00	1.70	0.76	YES	
L0041940	0	0.32650E-07	543680.3	3757116.3	322.6	0.00	1.70	0.76	YES	
L0041941	0	0.32650E-07	543680.3	3757120.0	322.7	0.00	1.70	0.76	YES	
L0041942	0	0.32650E-07	543680.2	3757123.6	322.7	0.00	1.70	0.76	YES	
L0041943	0	0.32650E-07	543680.2	3757127.3	322.8	0.00	1.70	0.76	YES	
L0041944	0	0.32650E-07	543680.2	3757131.0	322.9	0.00	1.70	0.76	YES	
L0041945	0	0.32650E-07	543680.1	3757134.6	323.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0041946	0	0.32650E-07	543680.1	3757138.3	323.1	0.00	1.70	0.76	YES	
L0041947	0	0.32650E-07	543680.1	3757141.9	323.2	0.00	1.70	0.76	YES	
L0041948	0	0.32650E-07	543680.0	3757145.6	323.2	0.00	1.70	0.76	YES	
L0041949	0	0.32650E-07	543680.0	3757149.2	323.3	0.00	1.70	0.76	YES	
L0041950	0	0.32650E-07	543679.9	3757152.9	323.4	0.00	1.70	0.76	YES	
L0041951	0	0.32650E-07	543679.9	3757156.6	323.5	0.00	1.70	0.76	YES	
L0041952	0	0.32650E-07	543679.9	3757160.2	323.5	0.00	1.70	0.76	YES	
L0041953	0	0.32650E-07	543679.8	3757163.9	323.6	0.00	1.70	0.76	YES	
L0041954	0	0.32650E-07	543679.8	3757167.5	323.7	0.00	1.70	0.76	YES	
L0041955	0	0.32650E-07	543679.7	3757171.2	323.8	0.00	1.70	0.76	YES	
L0041956	0	0.32650E-07	543679.7	3757174.8	323.8	0.00	1.70	0.76	YES	
L0041957	0	0.32650E-07	543679.7	3757178.5	323.9	0.00	1.70	0.76	YES	
L0041958	0	0.32650E-07	543679.6	3757182.2	323.9	0.00	1.70	0.76	YES	
L0041959	0	0.32650E-07	543679.6	3757185.8	324.0	0.00	1.70	0.76	YES	
L0041960	0	0.32650E-07	543679.5	3757189.5	324.1	0.00	1.70	0.76	YES	
L0041961	0	0.32650E-07	543679.5	3757193.1	324.2	0.00	1.70	0.76	YES	
L0041962	0	0.32650E-07	543679.5	3757196.8	324.2	0.00	1.70	0.76	YES	

L0041963	0	0.32650E-07	543679.4	3757200.4	324.3	0.00	1.70	0.76	YES	
L0041964	0	0.32650E-07	543679.4	3757204.1	324.3	0.00	1.70	0.76	YES	
L0041965	0	0.32650E-07	543679.3	3757207.8	324.4	0.00	1.70	0.76	YES	
L0041966	0	0.32650E-07	543679.3	3757211.4	324.4	0.00	1.70	0.76	YES	
L0041967	0	0.32650E-07	543679.3	3757215.1	324.5	0.00	1.70	0.76	YES	
L0041968	0	0.32650E-07	543679.2	3757218.7	324.6	0.00	1.70	0.76	YES	
L0041969	0	0.32650E-07	543679.2	3757222.4	324.6	0.00	1.70	0.76	YES	
L0041970	0	0.32650E-07	543679.1	3757226.0	324.7	0.00	1.70	0.76	YES	
L0041971	0	0.32650E-07	543679.1	3757229.7	324.8	0.00	1.70	0.76	YES	
L0041972	0	0.32650E-07	543679.1	3757233.4	324.8	0.00	1.70	0.76	YES	
L0041973	0	0.32650E-07	543679.0	3757237.0	324.9	0.00	1.70	0.76	YES	
L0041974	0	0.32650E-07	543679.0	3757240.7	325.0	0.00	1.70	0.76	YES	
L0041975	0	0.32650E-07	543678.9	3757244.3	325.0	0.00	1.70	0.76	YES	
L0041976	0	0.32650E-07	543678.9	3757248.0	325.1	0.00	1.70	0.76	YES	
L0041977	0	0.32650E-07	543678.9	3757251.6	325.2	0.00	1.70	0.76	YES	
L0041978	0	0.32650E-07	543678.8	3757255.3	325.2	0.00	1.70	0.76	YES	
L0041979	0	0.32650E-07	543678.8	3757259.0	325.3	0.00	1.70	0.76	YES	
L0041980	0	0.32650E-07	543678.8	3757262.6	325.4	0.00	1.70	0.76	YES	
L0040125	0	0.61350E-07	543676.1	3753932.2	262.4	0.00	1.70	0.76	YES	
L0040126	0	0.61350E-07	543679.7	3753932.2	262.4	0.00	1.70	0.76	YES	
L0040127	0	0.61350E-07	543683.4	3753932.2	262.4	0.00	1.70	0.76	YES	
L0040128	0	0.61350E-07	543687.0	3753932.2	262.4	0.00	1.70	0.76	YES	
L0040129	0	0.61350E-07	543690.7	3753932.3	262.4	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0040130	0	0.61350E-07	543694.3	3753932.3	262.4	0.00	1.70	0.76	YES	
L0040131	0	0.61350E-07	543698.0	3753932.3	262.4	0.00	1.70	0.76	YES	
L0040132	0	0.61350E-07	543701.7	3753932.3	262.4	0.00	1.70	0.76	YES	
L0040133	0	0.61350E-07	543705.3	3753932.3	262.4	0.00	1.70	0.76	YES	
L0040134	0	0.61350E-07	543709.0	3753932.3	262.4	0.00	1.70	0.76	YES	
L0040135	0	0.61350E-07	543712.6	3753932.3	262.3	0.00	1.70	0.76	YES	
L0040136	0	0.61350E-07	543716.3	3753932.3	262.3	0.00	1.70	0.76	YES	
L0040137	0	0.61350E-07	543719.9	3753932.3	262.3	0.00	1.70	0.76	YES	
L0040138	0	0.61350E-07	543723.6	3753932.4	262.3	0.00	1.70	0.76	YES	
L0040139	0	0.61350E-07	543727.3	3753932.4	262.3	0.00	1.70	0.76	YES	
L0040140	0	0.61350E-07	543730.9	3753932.4	262.3	0.00	1.70	0.76	YES	
L0040141	0	0.61350E-07	543734.6	3753932.4	262.3	0.00	1.70	0.76	YES	
L0040142	0	0.61350E-07	543738.2	3753932.4	262.3	0.00	1.70	0.76	YES	
L0040143	0	0.61350E-07	543741.9	3753932.4	262.3	0.00	1.70	0.76	YES	

L0040144	0	0.61350E-07	543745.5	3753932.4	262.2	0.00	1.70	0.76	YES	
L0040145	0	0.61350E-07	543749.2	3753932.4	262.2	0.00	1.70	0.76	YES	
L0040146	0	0.61350E-07	543752.9	3753932.4	262.2	0.00	1.70	0.76	YES	
L0040147	0	0.61350E-07	543756.5	3753932.5	262.2	0.00	1.70	0.76	YES	
L0040148	0	0.61350E-07	543760.2	3753932.5	262.2	0.00	1.70	0.76	YES	
L0040149	0	0.61350E-07	543763.8	3753932.5	262.2	0.00	1.70	0.76	YES	
L0040150	0	0.61350E-07	543767.5	3753932.5	262.2	0.00	1.70	0.76	YES	
L0040151	0	0.61350E-07	543771.2	3753932.5	262.2	0.00	1.70	0.76	YES	
L0040152	0	0.61350E-07	543774.8	3753932.5	262.2	0.00	1.70	0.76	YES	
L0040153	0	0.61350E-07	543778.5	3753932.5	262.2	0.00	1.70	0.76	YES	
L0040154	0	0.61350E-07	543782.1	3753932.5	262.2	0.00	1.70	0.76	YES	
L0040155	0	0.61350E-07	543785.8	3753932.5	262.1	0.00	1.70	0.76	YES	
L0040156	0	0.61350E-07	543789.4	3753932.5	262.1	0.00	1.70	0.76	YES	
L0040157	0	0.61350E-07	543793.1	3753932.6	262.1	0.00	1.70	0.76	YES	
L0040158	0	0.61350E-07	543796.8	3753932.6	262.1	0.00	1.70	0.76	YES	
L0040159	0	0.61350E-07	543800.4	3753932.6	262.1	0.00	1.70	0.76	YES	
L0040160	0	0.61350E-07	543804.1	3753932.6	262.1	0.00	1.70	0.76	YES	
L0040161	0	0.61350E-07	543807.7	3753932.6	262.0	0.00	1.70	0.76	YES	
L0040162	0	0.61350E-07	543811.4	3753932.6	262.0	0.00	1.70	0.76	YES	
L0040163	0	0.61350E-07	543815.0	3753932.6	262.0	0.00	1.70	0.76	YES	
L0040164	0	0.61350E-07	543818.7	3753932.6	262.0	0.00	1.70	0.76	YES	
L0040165	0	0.61350E-07	543822.4	3753932.6	262.0	0.00	1.70	0.76	YES	
L0040166	0	0.61350E-07	543826.0	3753932.7	262.0	0.00	1.70	0.76	YES	
L0040167	0	0.61350E-07	543829.7	3753932.7	262.0	0.00	1.70	0.76	YES	
L0040168	0	0.61350E-07	543833.3	3753932.7	261.9	0.00	1.70	0.76	YES	
L0040169	0	0.61350E-07	543837.0	3753932.7	261.9	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0040170	0	0.61350E-07	543840.6	3753932.7	261.9	0.00	1.70	0.76	YES	
L0040171	0	0.61350E-07	543844.3	3753932.7	261.9	0.00	1.70	0.76	YES	
L0040172	0	0.61350E-07	543848.0	3753932.7	261.9	0.00	1.70	0.76	YES	
L0040173	0	0.61350E-07	543851.6	3753932.7	261.9	0.00	1.70	0.76	YES	
L0040174	0	0.61350E-07	543855.3	3753932.7	261.9	0.00	1.70	0.76	YES	
L0040175	0	0.61350E-07	543858.9	3753932.8	261.8	0.00	1.70	0.76	YES	
L0040176	0	0.61350E-07	543862.6	3753932.8	261.8	0.00	1.70	0.76	YES	
L0040177	0	0.61350E-07	543866.2	3753932.8	261.8	0.00	1.70	0.76	YES	
L0040178	0	0.61350E-07	543869.9	3753932.8	261.8	0.00	1.70	0.76	YES	
L0040179	0	0.61350E-07	543873.6	3753932.8	261.7	0.00	1.70	0.76	YES	
L0040180	0	0.61350E-07	543877.2	3753932.8	261.7	0.00	1.70	0.76	YES	

L0040181	0	0.61350E-07	543880.9	3753932.8	261.7	0.00	1.70	0.76	YES	
L0040182	0	0.61350E-07	543884.5	3753932.8	261.7	0.00	1.70	0.76	YES	
L0040183	0	0.61350E-07	543888.2	3753932.8	261.6	0.00	1.70	0.76	YES	
L0040184	0	0.61350E-07	543891.9	3753932.9	261.6	0.00	1.70	0.76	YES	
L0040185	0	0.61350E-07	543895.5	3753932.9	261.6	0.00	1.70	0.76	YES	
L0040186	0	0.61350E-07	543899.2	3753932.9	261.6	0.00	1.70	0.76	YES	
L0040187	0	0.61350E-07	543902.8	3753932.9	261.5	0.00	1.70	0.76	YES	
L0040188	0	0.61350E-07	543906.5	3753932.9	261.5	0.00	1.70	0.76	YES	
L0040189	0	0.61350E-07	543910.1	3753932.9	261.5	0.00	1.70	0.76	YES	
L0040190	0	0.61350E-07	543913.8	3753932.9	261.4	0.00	1.70	0.76	YES	
L0040191	0	0.61350E-07	543917.5	3753932.9	261.4	0.00	1.70	0.76	YES	
L0040192	0	0.61350E-07	543921.1	3753932.9	261.4	0.00	1.70	0.76	YES	
L0040193	0	0.61350E-07	543924.8	3753932.9	261.4	0.00	1.70	0.76	YES	
L0040194	0	0.61350E-07	543928.4	3753933.0	261.4	0.00	1.70	0.76	YES	
L0040195	0	0.61350E-07	543932.1	3753933.0	261.4	0.00	1.70	0.76	YES	
L0040196	0	0.61350E-07	543935.7	3753933.0	261.3	0.00	1.70	0.76	YES	
L0040197	0	0.61350E-07	543939.4	3753933.0	261.3	0.00	1.70	0.76	YES	
L0040198	0	0.61350E-07	543943.1	3753933.0	261.3	0.00	1.70	0.76	YES	
L0040199	0	0.61350E-07	543946.7	3753933.0	261.3	0.00	1.70	0.76	YES	
L0040200	0	0.61350E-07	543950.4	3753933.0	261.2	0.00	1.70	0.76	YES	
L0040201	0	0.61350E-07	543954.0	3753933.0	261.2	0.00	1.70	0.76	YES	
L0040202	0	0.61350E-07	543957.7	3753933.0	261.2	0.00	1.70	0.76	YES	
L0040203	0	0.61350E-07	543961.3	3753933.1	261.1	0.00	1.70	0.76	YES	
L0040204	0	0.61350E-07	543965.0	3753933.1	261.1	0.00	1.70	0.76	YES	
L0040205	0	0.61350E-07	543968.7	3753933.1	261.1	0.00	1.70	0.76	YES	
L0040206	0	0.61350E-07	543972.3	3753933.1	261.0	0.00	1.70	0.76	YES	
L0040207	0	0.61350E-07	543976.0	3753933.1	261.0	0.00	1.70	0.76	YES	
L0040208	0	0.61350E-07	543979.6	3753933.1	261.0	0.00	1.70	0.76	YES	
L0040209	0	0.61350E-07	543983.3	3753933.1	261.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0040210	0	0.61350E-07	543986.9	3753933.1	261.0	0.00	1.70	0.76	YES	
L0040211	0	0.61350E-07	543990.6	3753933.1	261.0	0.00	1.70	0.76	YES	
L0040212	0	0.61350E-07	543994.3	3753933.2	261.0	0.00	1.70	0.76	YES	
L0040213	0	0.61350E-07	543997.9	3753933.2	261.0	0.00	1.70	0.76	YES	
L0040214	0	0.61350E-07	544001.6	3753933.2	261.0	0.00	1.70	0.76	YES	
L0040215	0	0.61350E-07	544005.2	3753933.2	260.9	0.00	1.70	0.76	YES	
L0040216	0	0.61350E-07	544008.9	3753933.2	260.9	0.00	1.70	0.76	YES	
L0040217	0	0.61350E-07	544012.6	3753933.2	260.9	0.00	1.70	0.76	YES	

L0040218	0	0.61350E-07	544016.2	3753933.2	260.8	0.00	1.70	0.76	YES
L0040219	0	0.61350E-07	544019.9	3753933.2	260.8	0.00	1.70	0.76	YES
L0040220	0	0.61350E-07	544023.5	3753933.2	260.8	0.00	1.70	0.76	YES
L0040221	0	0.61350E-07	544027.2	3753933.3	260.8	0.00	1.70	0.76	YES
L0040222	0	0.61350E-07	544030.8	3753933.3	260.8	0.00	1.70	0.76	YES
L0040223	0	0.61350E-07	544034.5	3753933.3	260.7	0.00	1.70	0.76	YES
L0040224	0	0.61350E-07	544038.2	3753933.3	260.7	0.00	1.70	0.76	YES
L0040225	0	0.61350E-07	544041.8	3753933.3	260.7	0.00	1.70	0.76	YES
L0040226	0	0.61350E-07	544045.5	3753933.3	260.7	0.00	1.70	0.76	YES
L0040227	0	0.61350E-07	544049.1	3753933.3	260.7	0.00	1.70	0.76	YES
L0040228	0	0.61350E-07	544052.8	3753933.3	260.7	0.00	1.70	0.76	YES
L0040229	0	0.61350E-07	544056.4	3753933.3	260.7	0.00	1.70	0.76	YES
L0040230	0	0.61350E-07	544060.1	3753933.3	260.7	0.00	1.70	0.76	YES
L0040231	0	0.61350E-07	544063.8	3753933.4	260.7	0.00	1.70	0.76	YES
L0040232	0	0.61350E-07	544067.4	3753933.4	260.7	0.00	1.70	0.76	YES
L0040233	0	0.61350E-07	544071.1	3753933.4	260.7	0.00	1.70	0.76	YES
L0040234	0	0.61350E-07	544074.7	3753933.4	260.7	0.00	1.70	0.76	YES
L0040235	0	0.61350E-07	544078.4	3753933.4	260.7	0.00	1.70	0.76	YES
L0040236	0	0.61350E-07	544082.0	3753933.4	260.7	0.00	1.70	0.76	YES
L0040237	0	0.61350E-07	544085.7	3753933.4	260.7	0.00	1.70	0.76	YES
L0040238	0	0.61350E-07	544089.4	3753933.4	260.7	0.00	1.70	0.76	YES
L0040239	0	0.61350E-07	544093.0	3753933.4	260.7	0.00	1.70	0.76	YES
L0040240	0	0.61350E-07	544096.7	3753933.5	260.7	0.00	1.70	0.76	YES
L0040241	0	0.61350E-07	544100.3	3753933.5	260.6	0.00	1.70	0.76	YES
L0040242	0	0.61350E-07	544104.0	3753933.5	260.6	0.00	1.70	0.76	YES
L0040243	0	0.61350E-07	544107.6	3753933.5	260.6	0.00	1.70	0.76	YES
L0040244	0	0.61350E-07	544111.3	3753933.5	260.5	0.00	1.70	0.76	YES
L0040245	0	0.61350E-07	544115.0	3753933.5	260.5	0.00	1.70	0.76	YES
L0040246	0	0.61350E-07	544118.6	3753933.5	260.5	0.00	1.70	0.76	YES
L0040247	0	0.61350E-07	544122.3	3753933.5	260.4	0.00	1.70	0.76	YES
L0040248	0	0.61350E-07	544125.9	3753933.5	260.5	0.00	1.70	0.76	YES
L0040249	0	0.61350E-07	544129.6	3753933.6	260.5	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0040250	0	0.61350E-07	544133.3	3753933.6	260.5	0.00	1.70	0.76	YES	
L0040251	0	0.61350E-07	544136.9	3753933.6	260.5	0.00	1.70	0.76	YES	
L0040252	0	0.61350E-07	544140.6	3753933.6	260.5	0.00	1.70	0.76	YES	
L0040253	0	0.61350E-07	544144.2	3753933.6	260.5	0.00	1.70	0.76	YES	
L0040254	0	0.61350E-07	544147.9	3753933.6	260.5	0.00	1.70	0.76	YES	

L0040255	0	0.61350E-07	544151.5	3753933.6	260.5	0.00	1.70	0.76	YES	
L0040256	0	0.61350E-07	544155.2	3753933.6	260.5	0.00	1.70	0.76	YES	
L0040257	0	0.61350E-07	544158.9	3753933.6	260.4	0.00	1.70	0.76	YES	
L0040258	0	0.61350E-07	544162.5	3753933.7	260.4	0.00	1.70	0.76	YES	
L0040259	0	0.61350E-07	544166.2	3753933.7	260.4	0.00	1.70	0.76	YES	
L0040260	0	0.61350E-07	544169.8	3753933.7	260.4	0.00	1.70	0.76	YES	
L0040261	0	0.61350E-07	544173.5	3753933.7	260.4	0.00	1.70	0.76	YES	
L0040262	0	0.61350E-07	544177.1	3753933.7	260.4	0.00	1.70	0.76	YES	
L0040263	0	0.61350E-07	544180.8	3753933.7	260.4	0.00	1.70	0.76	YES	
L0040264	0	0.61350E-07	544184.5	3753933.7	260.4	0.00	1.70	0.76	YES	
L0040265	0	0.61350E-07	544188.1	3753933.7	260.3	0.00	1.70	0.76	YES	
L0040266	0	0.61350E-07	544191.8	3753933.7	260.3	0.00	1.70	0.76	YES	
L0040267	0	0.61350E-07	544195.4	3753933.8	260.3	0.00	1.70	0.76	YES	
L0040268	0	0.61350E-07	544199.1	3753933.8	260.3	0.00	1.70	0.76	YES	
L0040269	0	0.61350E-07	544202.7	3753933.8	260.3	0.00	1.70	0.76	YES	
L0040270	0	0.61350E-07	544206.4	3753933.8	260.3	0.00	1.70	0.76	YES	
L0040271	0	0.61350E-07	544210.1	3753933.8	260.3	0.00	1.70	0.76	YES	
L0040272	0	0.61350E-07	544213.7	3753933.8	260.3	0.00	1.70	0.76	YES	
L0040273	0	0.61350E-07	544217.4	3753933.8	260.3	0.00	1.70	0.76	YES	
L0040274	0	0.61350E-07	544221.0	3753933.8	260.3	0.00	1.70	0.76	YES	
L0040275	0	0.61350E-07	544224.7	3753933.8	260.3	0.00	1.70	0.76	YES	
L0040276	0	0.61350E-07	544228.3	3753933.8	260.3	0.00	1.70	0.76	YES	
L0040277	0	0.61350E-07	544232.0	3753933.9	260.3	0.00	1.70	0.76	YES	
L0040278	0	0.61350E-07	544235.7	3753933.9	260.3	0.00	1.70	0.76	YES	
L0040279	0	0.61350E-07	544239.3	3753933.9	260.3	0.00	1.70	0.76	YES	
L0040280	0	0.61350E-07	544243.0	3753933.9	260.2	0.00	1.70	0.76	YES	
L0040281	0	0.61350E-07	544246.6	3753933.9	260.2	0.00	1.70	0.76	YES	
L0040282	0	0.61350E-07	544250.3	3753933.9	260.2	0.00	1.70	0.76	YES	
L0040283	0	0.61350E-07	544254.0	3753933.9	260.2	0.00	1.70	0.76	YES	
L0040284	0	0.61350E-07	544257.6	3753933.9	260.2	0.00	1.70	0.76	YES	
L0040285	0	0.61350E-07	544261.3	3753933.9	260.2	0.00	1.70	0.76	YES	
L0040286	0	0.61350E-07	544264.9	3753934.0	260.2	0.00	1.70	0.76	YES	
L0040287	0	0.61350E-07	544268.6	3753934.0	260.2	0.00	1.70	0.76	YES	
L0040288	0	0.61350E-07	544272.2	3753934.0	260.2	0.00	1.70	0.76	YES	
L0040289	0	0.61350E-07	544275.9	3753934.0	260.1	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0040290	0	0.61350E-07	544279.6	3753934.0	260.1	0.00	1.70	0.76	YES	
L0040291	0	0.61350E-07	544283.2	3753934.0	260.1	0.00	1.70	0.76	YES	

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L0040292        0   0.61350E-07  544286.9 3753934.0   260.1     0.00     1.70     0.76     YES
L0040293        0   0.61350E-07  544290.5 3753934.0   260.1     0.00     1.70     0.76     YES
L0040294        0   0.61350E-07  544294.2 3753934.0   260.1     0.00     1.70     0.76     YES
L0040295        0   0.61350E-07  544297.8 3753934.1   260.0     0.00     1.70     0.76     YES
L0040296        0   0.61350E-07  544301.5 3753934.1   260.0     0.00     1.70     0.76     YES
L0040297        0   0.61350E-07  544305.2 3753934.1   260.0     0.00     1.70     0.76     YES
L0040298        0   0.61350E-07  544308.8 3753934.1   260.0     0.00     1.70     0.76     YES
L0040299        0   0.61350E-07  544312.5 3753934.1   260.0     0.00     1.70     0.76     YES
L0040300        0   0.61350E-07  544316.1 3753934.1   259.9     0.00     1.70     0.76     YES
L0040301        0   0.61350E-07  544319.8 3753934.1   259.9     0.00     1.70     0.76     YES
L0040302        0   0.61350E-07  544323.4 3753934.1   259.9     0.00     1.70     0.76     YES
L0040303        0   0.61350E-07  544327.1 3753934.1   259.9     0.00     1.70     0.76     YES
L0040304        0   0.61350E-07  544330.8 3753934.2   259.9     0.00     1.70     0.76     YES
L0040305        0   0.61350E-07  544334.4 3753934.2   259.9     0.00     1.70     0.76     YES
L0040306        0   0.61350E-07  544338.1 3753934.2   259.8     0.00     1.70     0.76     YES
L0040307        0   0.61350E-07  544341.7 3753934.2   259.8     0.00     1.70     0.76     YES
L0040308        0   0.61350E-07  544345.4 3753934.2   259.8     0.00     1.70     0.76     YES
L0040309        0   0.61350E-07  544349.0 3753934.2   259.8     0.00     1.70     0.76     YES
L0040310        0   0.61350E-07  544352.7 3753934.2   259.8     0.00     1.70     0.76     YES
L0040311        0   0.61350E-07  544356.4 3753934.2   259.8     0.00     1.70     0.76     YES
L0040312        0   0.61350E-07  544360.0 3753934.2   259.8     0.00     1.70     0.76     YES
L0040313        0   0.61350E-07  544363.7 3753934.2   259.8     0.00     1.70     0.76     YES
L0040314        0   0.61350E-07  544367.3 3753934.3   259.8     0.00     1.70     0.76     YES
L0040315        0   0.61350E-07  544371.0 3753934.3   259.7     0.00     1.70     0.76     YES
L0040316        0   0.61350E-07  544374.7 3753934.3   259.7     0.00     1.70     0.76     YES
L0040317        0   0.61350E-07  544378.3 3753934.3   259.7     0.00     1.70     0.76     YES
L0040318        0   0.61350E-07  544382.0 3753934.3   259.7     0.00     1.70     0.76     YES
L0040319        0   0.61350E-07  544385.6 3753934.3   259.7     0.00     1.70     0.76     YES
L0040320        0   0.61350E-07  544389.3 3753934.3   259.7     0.00     1.70     0.76     YES
L0040321        0   0.61350E-07  544392.9 3753934.3   259.6     0.00     1.70     0.76     YES
L0040322        0   0.61350E-07  544396.6 3753934.3   259.6     0.00     1.70     0.76     YES
L0040323        0   0.61350E-07  544400.3 3753934.4   259.6     0.00     1.70     0.76     YES
L0040324        0   0.61350E-07  544403.9 3753934.4   259.6     0.00     1.70     0.76     YES
L0040325        0   0.61350E-07  544407.6 3753934.4   259.6     0.00     1.70     0.76     YES
L0040326        0   0.61350E-07  544411.2 3753934.4   259.5     0.00     1.70     0.76     YES
L0040327        0   0.61350E-07  544414.9 3753934.4   259.5     0.00     1.70     0.76     YES
L0040328        0   0.61350E-07  544418.5 3753934.4   259.5     0.00     1.70     0.76     YES
L0040329        0   0.61350E-07  544422.2 3753934.4   259.5     0.00     1.70     0.76     YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY

L0040330	0	0.61350E-07	544425.9	3753934.4	259.5	0.00	1.70	0.76	YES
L0040331	0	0.61350E-07	544429.5	3753934.4	259.4	0.00	1.70	0.76	YES
L0040332	0	0.61350E-07	544433.2	3753934.5	259.4	0.00	1.70	0.76	YES
L0040333	0	0.61350E-07	544436.8	3753934.5	259.4	0.00	1.70	0.76	YES
L0040334	0	0.61350E-07	544440.5	3753934.5	259.4	0.00	1.70	0.76	YES
L0040335	0	0.61350E-07	544444.1	3753934.5	259.4	0.00	1.70	0.76	YES
L0040336	0	0.61350E-07	544447.8	3753934.5	259.4	0.00	1.70	0.76	YES
L0040337	0	0.61350E-07	544451.5	3753934.5	259.4	0.00	1.70	0.76	YES
L0040338	0	0.61350E-07	544455.1	3753934.5	259.4	0.00	1.70	0.76	YES
L0040339	0	0.61350E-07	544458.8	3753934.5	259.4	0.00	1.70	0.76	YES
L0040340	0	0.61350E-07	544462.4	3753934.5	259.3	0.00	1.70	0.76	YES
L0040341	0	0.61350E-07	544466.1	3753934.6	259.3	0.00	1.70	0.76	YES
L0040342	0	0.61350E-07	544469.7	3753934.6	259.3	0.00	1.70	0.76	YES
L0040343	0	0.61350E-07	544473.4	3753934.6	259.3	0.00	1.70	0.76	YES
L0040344	0	0.61350E-07	544477.1	3753934.6	259.3	0.00	1.70	0.76	YES
L0040345	0	0.61350E-07	544480.7	3753934.6	259.2	0.00	1.70	0.76	YES
L0040346	0	0.61350E-07	544484.4	3753934.6	259.2	0.00	1.70	0.76	YES
L0040347	0	0.61350E-07	544488.0	3753934.6	259.2	0.00	1.70	0.76	YES
L0040348	0	0.61350E-07	544491.7	3753934.6	259.2	0.00	1.70	0.76	YES
L0040349	0	0.61350E-07	544495.4	3753934.6	259.2	0.00	1.70	0.76	YES
L0040350	0	0.61350E-07	544499.0	3753934.6	259.2	0.00	1.70	0.76	YES
L0040351	0	0.61350E-07	544502.7	3753934.7	259.2	0.00	1.70	0.76	YES
L0040352	0	0.61350E-07	544506.3	3753934.7	259.1	0.00	1.70	0.76	YES
L0040353	0	0.61350E-07	544510.0	3753934.7	259.1	0.00	1.70	0.76	YES
L0040354	0	0.61350E-07	544513.6	3753934.7	259.1	0.00	1.70	0.76	YES
L0040355	0	0.61350E-07	544517.3	3753934.7	259.1	0.00	1.70	0.76	YES
L0040356	0	0.61350E-07	544521.0	3753934.7	259.1	0.00	1.70	0.76	YES
L0040357	0	0.61350E-07	544524.6	3753934.7	259.0	0.00	1.70	0.76	YES
L0040358	0	0.61350E-07	544528.3	3753934.7	259.0	0.00	1.70	0.76	YES
L0040359	0	0.61350E-07	544531.9	3753934.7	259.0	0.00	1.70	0.76	YES
L0040360	0	0.61350E-07	544535.6	3753934.8	259.0	0.00	1.70	0.76	YES
L0040361	0	0.61350E-07	544539.2	3753934.8	259.0	0.00	1.70	0.76	YES
L0040362	0	0.61350E-07	544542.9	3753934.8	258.9	0.00	1.70	0.76	YES
L0040363	0	0.61350E-07	544546.6	3753934.8	258.9	0.00	1.70	0.76	YES
L0040364	0	0.61350E-07	544550.2	3753934.8	258.9	0.00	1.70	0.76	YES
L0040365	0	0.61350E-07	544553.9	3753934.8	258.9	0.00	1.70	0.76	YES
L0040366	0	0.61350E-07	544557.5	3753934.8	258.9	0.00	1.70	0.76	YES
L0040367	0	0.61350E-07	544561.2	3753934.8	258.9	0.00	1.70	0.76	YES
L0040368	0	0.61350E-07	544564.8	3753934.8	258.8	0.00	1.70	0.76	YES
L0040369	0	0.61350E-07	544568.5	3753934.9	258.8	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER	EMISSION RATE	BASE	RELEASE	INIT.	INIT.	URBAN	EMISSION RATE

SOURCE ID	PART. CATS.	(GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE	SCALAR VARY BY
L0040370	0	0.61350E-07	544572.2	3753934.9	258.8	0.00	1.70	0.76	YES	
L0040371	0	0.61350E-07	544575.8	3753934.9	258.8	0.00	1.70	0.76	YES	
L0040372	0	0.61350E-07	544579.5	3753934.9	258.8	0.00	1.70	0.76	YES	
L0040373	0	0.61350E-07	544583.1	3753934.9	258.7	0.00	1.70	0.76	YES	
L0040374	0	0.61350E-07	544586.8	3753934.9	258.7	0.00	1.70	0.76	YES	
L0040375	0	0.61350E-07	544590.4	3753934.9	258.7	0.00	1.70	0.76	YES	
L0040376	0	0.61350E-07	544594.1	3753934.9	258.7	0.00	1.70	0.76	YES	
L0040377	0	0.61350E-07	544597.8	3753934.9	258.7	0.00	1.70	0.76	YES	
L0040378	0	0.61350E-07	544601.4	3753935.0	258.7	0.00	1.70	0.76	YES	
L0040379	0	0.61350E-07	544605.1	3753935.0	258.7	0.00	1.70	0.76	YES	
L0040380	0	0.61350E-07	544608.7	3753935.0	258.7	0.00	1.70	0.76	YES	
L0040381	0	0.61350E-07	544612.4	3753935.0	258.6	0.00	1.70	0.76	YES	
L0040382	0	0.61350E-07	544616.1	3753935.0	258.6	0.00	1.70	0.76	YES	
L0040383	0	0.61350E-07	544619.7	3753935.0	258.6	0.00	1.70	0.76	YES	
L0040384	0	0.61350E-07	544623.4	3753935.0	258.6	0.00	1.70	0.76	YES	
L0040385	0	0.61350E-07	544627.0	3753935.0	258.6	0.00	1.70	0.76	YES	
L0040386	0	0.61350E-07	544630.7	3753935.0	258.6	0.00	1.70	0.76	YES	
L0040387	0	0.61350E-07	544634.3	3753935.1	258.5	0.00	1.70	0.76	YES	
L0040388	0	0.61350E-07	544638.0	3753935.1	258.5	0.00	1.70	0.76	YES	
L0040389	0	0.61350E-07	544641.7	3753935.1	258.5	0.00	1.70	0.76	YES	
L0040390	0	0.61350E-07	544645.3	3753935.1	258.5	0.00	1.70	0.76	YES	
L0040391	0	0.61350E-07	544649.0	3753935.1	258.5	0.00	1.70	0.76	YES	
L0040392	0	0.61350E-07	544652.6	3753935.1	258.5	0.00	1.70	0.76	YES	
L0040393	0	0.61350E-07	544656.3	3753935.1	258.5	0.00	1.70	0.76	YES	
L0040394	0	0.61350E-07	544659.9	3753935.1	258.5	0.00	1.70	0.76	YES	
L0040395	0	0.61350E-07	544663.6	3753935.1	258.4	0.00	1.70	0.76	YES	
L0040396	0	0.61350E-07	544667.3	3753935.1	258.4	0.00	1.70	0.76	YES	
L0040397	0	0.61350E-07	544670.9	3753935.2	258.4	0.00	1.70	0.76	YES	
L0040398	0	0.61350E-07	544674.6	3753935.2	258.4	0.00	1.70	0.76	YES	
L0040399	0	0.61350E-07	544678.2	3753935.2	258.4	0.00	1.70	0.76	YES	
L0040400	0	0.61350E-07	544681.9	3753935.2	258.4	0.00	1.70	0.76	YES	
L0040401	0	0.61350E-07	544685.5	3753935.2	258.4	0.00	1.70	0.76	YES	
L0040402	0	0.61350E-07	544689.2	3753935.2	258.3	0.00	1.70	0.76	YES	
L0040403	0	0.61350E-07	544692.9	3753935.2	258.3	0.00	1.70	0.76	YES	
L0040404	0	0.61350E-07	544696.5	3753935.2	258.3	0.00	1.70	0.76	YES	
L0040405	0	0.61350E-07	544700.2	3753935.2	258.3	0.00	1.70	0.76	YES	
L0040406	0	0.61350E-07	544703.8	3753935.3	258.3	0.00	1.70	0.76	YES	
L0040407	0	0.61350E-07	544707.5	3753935.3	258.3	0.00	1.70	0.76	YES	
L0040408	0	0.61350E-07	544711.1	3753935.3	258.3	0.00	1.70	0.76	YES	
L0040409	0	0.61350E-07	544714.8	3753935.3	258.2	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0040410	0	0.61350E-07	544718.5	3753935.3	258.2	0.00	1.70	0.76	YES	
L0040411	0	0.61350E-07	544722.1	3753935.3	258.2	0.00	1.70	0.76	YES	
L0040412	0	0.61350E-07	544725.8	3753935.3	258.2	0.00	1.70	0.76	YES	
L0040413	0	0.61350E-07	544729.4	3753935.3	258.2	0.00	1.70	0.76	YES	
L0040414	0	0.61350E-07	544733.1	3753935.3	258.2	0.00	1.70	0.76	YES	
L0040415	0	0.61350E-07	544736.8	3753935.4	258.2	0.00	1.70	0.76	YES	
L0040416	0	0.61350E-07	544740.4	3753935.4	258.2	0.00	1.70	0.76	YES	
L0040417	0	0.61350E-07	544744.1	3753935.4	258.2	0.00	1.70	0.76	YES	
L0040418	0	0.61350E-07	544747.7	3753935.4	258.2	0.00	1.70	0.76	YES	
L0040419	0	0.61350E-07	544751.4	3753935.4	258.1	0.00	1.70	0.76	YES	
L0040420	0	0.61350E-07	544755.0	3753935.4	258.1	0.00	1.70	0.76	YES	
L0040421	0	0.61350E-07	544758.7	3753935.4	258.1	0.00	1.70	0.76	YES	
L0040422	0	0.61350E-07	544762.4	3753935.4	258.1	0.00	1.70	0.76	YES	
L0040423	0	0.61350E-07	544766.0	3753935.4	258.1	0.00	1.70	0.76	YES	
L0040424	0	0.61350E-07	544769.7	3753935.5	258.1	0.00	1.70	0.76	YES	
L0040425	0	0.61350E-07	544773.3	3753935.5	258.1	0.00	1.70	0.76	YES	
L0040426	0	0.61350E-07	544777.0	3753935.5	258.1	0.00	1.70	0.76	YES	
L0040427	0	0.61350E-07	544780.6	3753935.5	258.1	0.00	1.70	0.76	YES	
L0040428	0	0.61350E-07	544784.3	3753935.5	258.1	0.00	1.70	0.76	YES	
L0040429	0	0.61350E-07	544788.0	3753935.5	258.1	0.00	1.70	0.76	YES	
L0040430	0	0.61350E-07	544791.6	3753935.5	258.1	0.00	1.70	0.76	YES	
L0040431	0	0.61350E-07	544795.3	3753935.5	258.0	0.00	1.70	0.76	YES	
L0040432	0	0.61350E-07	544798.9	3753935.5	258.0	0.00	1.70	0.76	YES	
L0040433	0	0.61350E-07	544802.6	3753935.5	258.0	0.00	1.70	0.76	YES	
L0040434	0	0.61350E-07	544806.2	3753935.6	258.0	0.00	1.70	0.76	YES	
L0040435	0	0.61350E-07	544809.9	3753935.6	258.0	0.00	1.70	0.76	YES	
L0040436	0	0.61350E-07	544813.6	3753935.6	258.0	0.00	1.70	0.76	YES	
L0040437	0	0.61350E-07	544817.2	3753935.6	258.0	0.00	1.70	0.76	YES	
L0040438	0	0.61350E-07	544820.9	3753935.6	258.0	0.00	1.70	0.76	YES	
L0040439	0	0.61350E-07	544824.5	3753935.6	258.0	0.00	1.70	0.76	YES	
L0040440	0	0.61350E-07	544828.2	3753935.6	258.0	0.00	1.70	0.76	YES	
L0040441	0	0.61350E-07	544831.8	3753935.6	258.0	0.00	1.70	0.76	YES	
L0040442	0	0.61350E-07	544835.5	3753935.6	258.0	0.00	1.70	0.76	YES	
L0040443	0	0.61350E-07	544839.2	3753935.7	257.9	0.00	1.70	0.76	YES	
L0040444	0	0.61350E-07	544842.8	3753935.7	257.9	0.00	1.70	0.76	YES	
L0040445	0	0.61350E-07	544846.5	3753935.7	257.9	0.00	1.70	0.76	YES	
L0040446	0	0.61350E-07	544850.1	3753935.7	257.9	0.00	1.70	0.76	YES	
L0040447	0	0.61350E-07	544853.8	3753935.7	257.9	0.00	1.70	0.76	YES	
L0040448	0	0.61350E-07	544857.5	3753935.7	257.9	0.00	1.70	0.76	YES	
L0040449	0	0.61350E-07	544861.1	3753935.7	257.9	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0040450	0	0.61350E-07	544864.8	3753935.7	257.9	0.00	1.70	0.76	YES	
L0040451	0	0.61350E-07	544868.4	3753935.7	257.9	0.00	1.70	0.76	YES	
L0040452	0	0.61350E-07	544872.1	3753935.8	257.9	0.00	1.70	0.76	YES	
L0040453	0	0.61350E-07	544875.7	3753935.8	257.9	0.00	1.70	0.76	YES	
L0040454	0	0.61350E-07	544879.4	3753935.8	257.9	0.00	1.70	0.76	YES	
L0040455	0	0.61350E-07	544883.1	3753935.8	257.9	0.00	1.70	0.76	YES	
L0040456	0	0.61350E-07	544886.7	3753935.8	257.9	0.00	1.70	0.76	YES	
L0040457	0	0.61350E-07	544890.4	3753935.8	257.9	0.00	1.70	0.76	YES	
L0040458	0	0.61350E-07	544894.0	3753935.8	257.9	0.00	1.70	0.76	YES	
L0040459	0	0.61350E-07	544897.7	3753935.8	257.9	0.00	1.70	0.76	YES	
L0040460	0	0.61350E-07	544901.3	3753935.8	257.8	0.00	1.70	0.76	YES	
L0040461	0	0.61350E-07	544905.0	3753935.9	257.8	0.00	1.70	0.76	YES	
L0040462	0	0.61350E-07	544908.7	3753935.9	257.8	0.00	1.70	0.76	YES	
L0040463	0	0.61350E-07	544912.3	3753935.9	257.8	0.00	1.70	0.76	YES	
L0040464	0	0.61350E-07	544916.0	3753935.9	257.8	0.00	1.70	0.76	YES	
L0040465	0	0.61350E-07	544919.6	3753935.9	257.8	0.00	1.70	0.76	YES	
L0040466	0	0.61350E-07	544923.3	3753935.9	257.8	0.00	1.70	0.76	YES	
L0040467	0	0.61350E-07	544926.9	3753935.9	257.8	0.00	1.70	0.76	YES	
L0040468	0	0.61350E-07	544930.6	3753935.9	257.8	0.00	1.70	0.76	YES	
L0040469	0	0.61350E-07	544934.3	3753935.9	257.8	0.00	1.70	0.76	YES	
L0040470	0	0.61350E-07	544937.9	3753935.9	257.8	0.00	1.70	0.76	YES	
L0040471	0	0.61350E-07	544941.6	3753936.0	257.8	0.00	1.70	0.76	YES	
L0040472	0	0.61350E-07	544945.2	3753936.0	257.8	0.00	1.70	0.76	YES	
L0040473	0	0.61350E-07	544948.9	3753936.0	257.8	0.00	1.70	0.76	YES	
L0040474	0	0.61350E-07	544952.6	3753936.0	257.8	0.00	1.70	0.76	YES	
L0040475	0	0.61350E-07	544956.2	3753936.0	257.7	0.00	1.70	0.76	YES	
L0040476	0	0.61350E-07	544959.9	3753936.0	257.7	0.00	1.70	0.76	YES	
L0040477	0	0.61350E-07	544963.5	3753936.0	257.7	0.00	1.70	0.76	YES	
L0040478	0	0.61350E-07	544967.2	3753936.0	257.7	0.00	1.70	0.76	YES	
L0040479	0	0.61350E-07	544970.8	3753936.0	257.7	0.00	1.70	0.76	YES	
L0040480	0	0.61350E-07	544974.5	3753936.1	257.7	0.00	1.70	0.76	YES	
L0040481	0	0.61350E-07	544978.2	3753936.1	257.7	0.00	1.70	0.76	YES	
L0040482	0	0.61350E-07	544981.8	3753936.1	257.7	0.00	1.70	0.76	YES	
L0040483	0	0.61350E-07	544985.5	3753936.1	257.7	0.00	1.70	0.76	YES	
L0040484	0	0.61350E-07	544989.1	3753936.1	257.7	0.00	1.70	0.76	YES	
L0040485	0	0.61350E-07	544992.8	3753936.1	257.7	0.00	1.70	0.76	YES	
L0040486	0	0.61350E-07	544996.4	3753936.1	257.7	0.00	1.70	0.76	YES	
L0040487	0	0.61350E-07	545000.1	3753936.1	257.7	0.00	1.70	0.76	YES	
L0040488	0	0.61350E-07	545003.8	3753936.1	257.7	0.00	1.70	0.76	YES	
L0040489	0	0.61350E-07	545007.4	3753936.2	257.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0040490	0	0.61350E-07	545011.1	3753936.2	257.7	0.00	1.70	0.76	YES	
L0040491	0	0.61350E-07	545014.7	3753936.2	257.7	0.00	1.70	0.76	YES	
L0040492	0	0.61350E-07	545018.4	3753936.2	257.7	0.00	1.70	0.76	YES	
L0040493	0	0.61350E-07	545022.0	3753936.2	257.7	0.00	1.70	0.76	YES	
L0040494	0	0.61350E-07	545025.7	3753936.2	257.7	0.00	1.70	0.76	YES	
L0040495	0	0.61350E-07	545029.4	3753936.2	257.7	0.00	1.70	0.76	YES	
L0040496	0	0.61350E-07	545033.0	3753936.2	257.7	0.00	1.70	0.76	YES	
L0040497	0	0.61350E-07	545036.7	3753936.2	257.6	0.00	1.70	0.76	YES	
L0040498	0	0.61350E-07	545040.3	3753936.3	257.6	0.00	1.70	0.76	YES	
L0040499	0	0.61350E-07	545044.0	3753936.3	257.6	0.00	1.70	0.76	YES	
L0040500	0	0.61350E-07	545047.6	3753936.3	257.6	0.00	1.70	0.76	YES	
L0040501	0	0.61350E-07	545051.3	3753936.3	257.6	0.00	1.70	0.76	YES	
L0040502	0	0.61350E-07	545055.0	3753936.3	257.6	0.00	1.70	0.76	YES	
L0040503	0	0.61350E-07	545058.6	3753936.3	257.6	0.00	1.70	0.76	YES	
L0040504	0	0.61350E-07	545062.3	3753936.3	257.6	0.00	1.70	0.76	YES	
L0040505	0	0.61350E-07	545065.9	3753936.3	257.6	0.00	1.70	0.76	YES	
L0040506	0	0.61350E-07	545069.6	3753936.3	257.6	0.00	1.70	0.76	YES	
L0040507	0	0.61350E-07	545073.2	3753936.3	257.6	0.00	1.70	0.76	YES	
L0040508	0	0.61350E-07	545076.9	3753936.4	257.6	0.00	1.70	0.76	YES	
L0040509	0	0.61350E-07	545080.6	3753936.4	257.6	0.00	1.70	0.76	YES	
L0040510	0	0.61350E-07	545084.2	3753936.4	257.6	0.00	1.70	0.76	YES	
L0040511	0	0.61350E-07	545087.9	3753936.4	257.6	0.00	1.70	0.76	YES	
L0040512	0	0.61350E-07	545091.5	3753936.4	257.5	0.00	1.70	0.76	YES	
L0040513	0	0.61350E-07	545095.2	3753936.4	257.5	0.00	1.70	0.76	YES	
L0040514	0	0.61350E-07	545098.9	3753936.4	257.5	0.00	1.70	0.76	YES	
L0040515	0	0.61350E-07	545102.5	3753936.4	257.5	0.00	1.70	0.76	YES	
L0040516	0	0.61350E-07	545106.2	3753936.4	257.5	0.00	1.70	0.76	YES	
L0040517	0	0.61350E-07	545109.8	3753936.5	257.5	0.00	1.70	0.76	YES	
L0040518	0	0.61350E-07	545113.5	3753936.5	257.5	0.00	1.70	0.76	YES	
L0040519	0	0.61350E-07	545117.1	3753936.5	257.5	0.00	1.70	0.76	YES	
L0040520	0	0.61350E-07	545120.8	3753936.5	257.5	0.00	1.70	0.76	YES	
L0040521	0	0.61350E-07	545124.5	3753936.5	257.5	0.00	1.70	0.76	YES	
L0040522	0	0.61350E-07	545128.1	3753936.5	257.5	0.00	1.70	0.76	YES	
L0040523	0	0.61350E-07	545131.8	3753936.5	257.5	0.00	1.70	0.76	YES	
L0040524	0	0.61350E-07	545135.4	3753936.5	257.4	0.00	1.70	0.76	YES	
L0040525	0	0.61350E-07	545139.1	3753936.5	257.4	0.00	1.70	0.76	YES	
L0040526	0	0.61350E-07	545142.7	3753936.6	257.4	0.00	1.70	0.76	YES	
L0040527	0	0.61350E-07	545146.4	3753936.6	257.4	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0040528	0	0.61350E-07	545150.1	3753936.6	257.4	0.00	1.70	0.76	YES	
L0040529	0	0.61350E-07	545153.7	3753936.6	257.4	0.00	1.70	0.76	YES	
L0040530	0	0.61350E-07	545157.4	3753936.6	257.4	0.00	1.70	0.76	YES	
L0040531	0	0.61350E-07	545161.0	3753936.6	257.4	0.00	1.70	0.76	YES	
L0040532	0	0.61350E-07	545164.7	3753936.6	257.3	0.00	1.70	0.76	YES	
L0040533	0	0.61350E-07	545168.3	3753936.6	257.3	0.00	1.70	0.76	YES	
L0040534	0	0.61350E-07	545172.0	3753936.6	257.3	0.00	1.70	0.76	YES	
L0040535	0	0.61350E-07	545175.7	3753936.7	257.3	0.00	1.70	0.76	YES	
L0040536	0	0.61350E-07	545179.3	3753936.7	257.3	0.00	1.70	0.76	YES	
L0040537	0	0.61350E-07	545183.0	3753936.7	257.2	0.00	1.70	0.76	YES	
L0040538	0	0.61350E-07	545186.6	3753936.7	257.2	0.00	1.70	0.76	YES	
L0040539	0	0.61350E-07	545190.3	3753936.7	257.2	0.00	1.70	0.76	YES	
L0040540	0	0.61350E-07	545194.0	3753936.7	257.2	0.00	1.70	0.76	YES	
L0040541	0	0.61350E-07	545197.6	3753936.7	257.2	0.00	1.70	0.76	YES	
L0040542	0	0.61350E-07	545201.3	3753936.7	257.2	0.00	1.70	0.76	YES	
L0040543	0	0.61350E-07	545204.9	3753936.7	257.1	0.00	1.70	0.76	YES	
L0040544	0	0.61350E-07	545208.6	3753936.8	257.1	0.00	1.70	0.76	YES	
L0040545	0	0.61350E-07	545212.2	3753936.8	257.0	0.00	1.70	0.76	YES	
L0040546	0	0.61350E-07	545215.9	3753936.8	257.0	0.00	1.70	0.76	YES	
L0040547	0	0.61350E-07	545219.6	3753936.8	257.0	0.00	1.70	0.76	YES	
L0040548	0	0.61350E-07	545223.2	3753936.8	256.9	0.00	1.70	0.76	YES	
L0040549	0	0.61350E-07	545226.9	3753936.8	256.9	0.00	1.70	0.76	YES	
L0040550	0	0.61350E-07	545230.5	3753936.8	256.9	0.00	1.70	0.76	YES	
L0040551	0	0.61350E-07	545234.2	3753936.8	256.8	0.00	1.70	0.76	YES	
L0040552	0	0.61350E-07	545237.8	3753936.8	256.8	0.00	1.70	0.76	YES	
L0040553	0	0.61350E-07	545241.5	3753936.8	256.7	0.00	1.70	0.76	YES	
L0040554	0	0.61350E-07	545245.2	3753936.9	256.7	0.00	1.70	0.76	YES	
L0040555	0	0.61350E-07	545248.8	3753936.9	256.6	0.00	1.70	0.76	YES	
L0040556	0	0.61350E-07	545252.5	3753936.9	256.6	0.00	1.70	0.76	YES	
L0040557	0	0.61350E-07	545256.1	3753936.9	256.6	0.00	1.70	0.76	YES	
L0040558	0	0.61350E-07	545259.8	3753936.9	256.5	0.00	1.70	0.76	YES	
L0040559	0	0.61350E-07	545263.4	3753936.9	256.5	0.00	1.70	0.76	YES	
L0040560	0	0.61350E-07	545267.1	3753936.9	256.4	0.00	1.70	0.76	YES	
L0040561	0	0.61350E-07	545270.8	3753936.9	256.4	0.00	1.70	0.76	YES	
L0040562	0	0.61350E-07	545274.4	3753936.9	256.4	0.00	1.70	0.76	YES	
L0040563	0	0.61350E-07	545278.1	3753937.0	256.3	0.00	1.70	0.76	YES	
L0040564	0	0.61350E-07	545281.7	3753937.0	256.3	0.00	1.70	0.76	YES	

L0040565	0	0.61350E-07	545285.4	3753937.0	256.2	0.00	1.70	0.76	YES	
L0040566	0	0.61350E-07	545289.0	3753937.0	256.2	0.00	1.70	0.76	YES	
L0040567	0	0.61350E-07	545292.7	3753937.0	256.2	0.00	1.70	0.76	YES	
L0040568	0	0.61350E-07	545296.4	3753937.0	256.1	0.00	1.70	0.76	YES	
L0040569	0	0.61350E-07	545300.0	3753937.0	256.1	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0040570	0	0.61350E-07	545303.7	3753937.0	256.1	0.00	1.70	0.76	YES	
L0040571	0	0.61350E-07	545307.3	3753937.0	256.0	0.00	1.70	0.76	YES	
L0040572	0	0.61350E-07	545311.0	3753937.1	256.0	0.00	1.70	0.76	YES	
L0040573	0	0.61350E-07	545314.7	3753937.1	256.0	0.00	1.70	0.76	YES	
L0040574	0	0.61350E-07	545318.3	3753937.1	255.9	0.00	1.70	0.76	YES	
L0040575	0	0.61350E-07	545322.0	3753937.1	255.9	0.00	1.70	0.76	YES	
L0040576	0	0.61350E-07	545325.6	3753937.1	255.9	0.00	1.70	0.76	YES	
L0040577	0	0.61350E-07	545329.3	3753937.1	255.8	0.00	1.70	0.76	YES	
L0040578	0	0.61350E-07	545332.9	3753937.1	255.8	0.00	1.70	0.76	YES	
L0040579	0	0.61350E-07	545336.6	3753937.1	255.8	0.00	1.70	0.76	YES	
L0040580	0	0.61350E-07	545340.3	3753937.1	255.8	0.00	1.70	0.76	YES	
L0040581	0	0.61350E-07	545343.9	3753937.2	255.8	0.00	1.70	0.76	YES	
L0040582	0	0.61350E-07	545347.6	3753937.2	255.8	0.00	1.70	0.76	YES	
L0040583	0	0.61350E-07	545351.2	3753937.2	255.8	0.00	1.70	0.76	YES	
L0040584	0	0.61350E-07	545354.9	3753937.2	255.8	0.00	1.70	0.76	YES	
L0040585	0	0.61350E-07	545358.5	3753937.2	255.8	0.00	1.70	0.76	YES	
L0040586	0	0.61350E-07	545362.2	3753937.2	255.8	0.00	1.70	0.76	YES	
L0040587	0	0.61350E-07	545365.9	3753937.2	255.8	0.00	1.70	0.76	YES	
L0040588	0	0.61350E-07	545369.5	3753937.2	255.8	0.00	1.70	0.76	YES	
L0040589	0	0.61350E-07	545373.2	3753937.2	255.8	0.00	1.70	0.76	YES	
L0040590	0	0.61350E-07	545376.8	3753937.2	255.8	0.00	1.70	0.76	YES	
L0040591	0	0.61350E-07	545380.5	3753937.3	255.8	0.00	1.70	0.76	YES	
L0040592	0	0.61350E-07	545384.1	3753937.3	255.8	0.00	1.70	0.76	YES	
L0040593	0	0.61350E-07	545387.8	3753937.3	255.8	0.00	1.70	0.76	YES	
L0040594	0	0.61350E-07	545391.5	3753937.3	255.8	0.00	1.70	0.76	YES	
L0040595	0	0.61350E-07	545395.1	3753937.3	255.8	0.00	1.70	0.76	YES	
L0040596	0	0.61350E-07	545398.8	3753937.3	255.8	0.00	1.70	0.76	YES	
L0040597	0	0.61350E-07	545402.4	3753937.3	255.8	0.00	1.70	0.76	YES	
L0040598	0	0.61350E-07	545406.1	3753937.3	255.8	0.00	1.70	0.76	YES	
L0040599	0	0.61350E-07	545409.7	3753937.3	255.8	0.00	1.70	0.76	YES	
L0040600	0	0.61350E-07	545413.4	3753937.4	255.7	0.00	1.70	0.76	YES	
L0040601	0	0.61350E-07	545417.1	3753937.4	255.7	0.00	1.70	0.76	YES	

L0040602	0	0.61350E-07	545420.7	3753937.4	255.7	0.00	1.70	0.76	YES	
L0040603	0	0.61350E-07	545424.4	3753937.4	255.7	0.00	1.70	0.76	YES	
L0040604	0	0.61350E-07	545428.0	3753937.4	255.7	0.00	1.70	0.76	YES	
L0040605	0	0.61350E-07	545431.7	3753937.4	255.7	0.00	1.70	0.76	YES	
L0040606	0	0.61350E-07	545435.4	3753937.4	255.7	0.00	1.70	0.76	YES	
L0040607	0	0.61350E-07	545439.0	3753937.4	255.7	0.00	1.70	0.76	YES	
L0040608	0	0.61350E-07	545442.7	3753937.4	255.7	0.00	1.70	0.76	YES	
L0040609	0	0.61350E-07	545446.3	3753937.5	255.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0040610	0	0.61350E-07	545450.0	3753937.5	255.7	0.00	1.70	0.76	YES	
L0040611	0	0.61350E-07	545453.6	3753937.5	255.7	0.00	1.70	0.76	YES	
L0040612	0	0.61350E-07	545457.3	3753937.5	255.7	0.00	1.70	0.76	YES	
L0040613	0	0.61350E-07	545461.0	3753937.5	255.7	0.00	1.70	0.76	YES	
L0040614	0	0.61350E-07	545464.6	3753937.5	255.6	0.00	1.70	0.76	YES	
L0040615	0	0.61350E-07	545468.3	3753937.5	255.6	0.00	1.70	0.76	YES	
L0040616	0	0.61350E-07	545471.9	3753937.5	255.6	0.00	1.70	0.76	YES	
L0040617	0	0.61350E-07	545475.6	3753937.5	255.6	0.00	1.70	0.76	YES	
L0040618	0	0.61350E-07	545479.2	3753937.6	255.6	0.00	1.70	0.76	YES	
L0040619	0	0.61350E-07	545482.9	3753937.6	255.6	0.00	1.70	0.76	YES	
L0040620	0	0.61350E-07	545486.6	3753937.6	255.6	0.00	1.70	0.76	YES	
L0040621	0	0.61350E-07	545490.2	3753937.6	255.6	0.00	1.70	0.76	YES	
L0040622	0	0.61350E-07	545493.9	3753937.6	255.6	0.00	1.70	0.76	YES	
L0040623	0	0.61350E-07	545497.5	3753937.6	255.6	0.00	1.70	0.76	YES	
L0040624	0	0.61350E-07	545501.2	3753937.6	255.5	0.00	1.70	0.76	YES	
L0040625	0	0.61350E-07	545504.8	3753937.6	255.5	0.00	1.70	0.76	YES	
L0040626	0	0.61350E-07	545508.5	3753937.6	255.5	0.00	1.70	0.76	YES	
L0040627	0	0.61350E-07	545512.2	3753937.6	255.5	0.00	1.70	0.76	YES	
L0040628	0	0.61350E-07	545515.8	3753937.7	255.5	0.00	1.70	0.76	YES	
L0040629	0	0.61350E-07	545519.5	3753937.7	255.5	0.00	1.70	0.76	YES	
L0040630	0	0.61350E-07	545523.1	3753937.7	255.5	0.00	1.70	0.76	YES	
L0040631	0	0.61350E-07	545526.8	3753937.7	255.4	0.00	1.70	0.76	YES	
L0040632	0	0.61350E-07	545530.4	3753937.7	255.4	0.00	1.70	0.76	YES	
L0040633	0	0.61350E-07	545534.1	3753937.7	255.4	0.00	1.70	0.76	YES	
L0040634	0	0.61350E-07	545537.8	3753937.7	255.4	0.00	1.70	0.76	YES	
L0040635	0	0.61350E-07	545541.4	3753937.7	255.4	0.00	1.70	0.76	YES	
L0040636	0	0.61350E-07	545545.1	3753937.7	255.4	0.00	1.70	0.76	YES	
L0040637	0	0.61350E-07	545548.7	3753937.8	255.4	0.00	1.70	0.76	YES	
L0040638	0	0.61350E-07	545552.4	3753937.8	255.4	0.00	1.70	0.76	YES	

L0040639	0	0.61350E-07	545556.1	3753937.8	255.3	0.00	1.70	0.76	YES
L0040640	0	0.61350E-07	545559.7	3753937.8	255.3	0.00	1.70	0.76	YES
L0040641	0	0.61350E-07	545563.4	3753937.8	255.3	0.00	1.70	0.76	YES
L0040642	0	0.61350E-07	545567.0	3753937.8	255.3	0.00	1.70	0.76	YES
L0040643	0	0.61350E-07	545570.7	3753937.8	255.3	0.00	1.70	0.76	YES
L0040644	0	0.61350E-07	545574.3	3753937.8	255.3	0.00	1.70	0.76	YES
L0040645	0	0.61350E-07	545578.0	3753937.8	255.2	0.00	1.70	0.76	YES
L0040646	0	0.61350E-07	545581.7	3753937.9	255.2	0.00	1.70	0.76	YES
L0040647	0	0.61350E-07	545585.3	3753937.9	255.2	0.00	1.70	0.76	YES
L0040648	0	0.61350E-07	545589.0	3753937.9	255.2	0.00	1.70	0.76	YES
L0040649	0	0.61350E-07	545592.6	3753937.9	255.2	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0040650	0	0.61350E-07	545596.3	3753937.9	255.2	0.00	1.70	0.76	YES	
L0040651	0	0.61350E-07	545599.9	3753937.9	255.2	0.00	1.70	0.76	YES	
L0040652	0	0.61350E-07	545603.6	3753937.9	255.2	0.00	1.70	0.76	YES	
L0040653	0	0.61350E-07	545607.3	3753937.9	255.1	0.00	1.70	0.76	YES	
L0040654	0	0.61350E-07	545610.9	3753937.9	255.1	0.00	1.70	0.76	YES	
L0040655	0	0.61350E-07	545614.6	3753938.0	255.1	0.00	1.70	0.76	YES	
L0040656	0	0.61350E-07	545618.2	3753938.0	255.1	0.00	1.70	0.76	YES	
L0040657	0	0.61350E-07	545621.9	3753938.0	255.1	0.00	1.70	0.76	YES	
L0040658	0	0.61350E-07	545625.5	3753938.0	255.1	0.00	1.70	0.76	YES	
L0040659	0	0.61350E-07	545629.2	3753938.0	255.1	0.00	1.70	0.76	YES	
L0040660	0	0.61350E-07	545632.9	3753938.0	255.0	0.00	1.70	0.76	YES	
L0040661	0	0.61350E-07	545636.5	3753938.0	255.0	0.00	1.70	0.76	YES	
L0040662	0	0.61350E-07	545640.2	3753938.0	255.0	0.00	1.70	0.76	YES	
L0040663	0	0.61350E-07	545643.8	3753938.0	255.0	0.00	1.70	0.76	YES	
L0040664	0	0.61350E-07	545647.5	3753938.1	254.9	0.00	1.70	0.76	YES	
L0040665	0	0.61350E-07	545651.1	3753938.1	254.9	0.00	1.70	0.76	YES	
L0040666	0	0.61350E-07	545654.8	3753938.1	254.9	0.00	1.70	0.76	YES	
L0040667	0	0.61350E-07	545658.5	3753938.1	254.9	0.00	1.70	0.76	YES	
L0040668	0	0.61350E-07	545662.1	3753938.1	254.8	0.00	1.70	0.76	YES	
L0040669	0	0.61350E-07	545665.8	3753938.1	254.8	0.00	1.70	0.76	YES	
L0040670	0	0.61350E-07	545669.4	3753938.1	254.8	0.00	1.70	0.76	YES	
L0040671	0	0.61350E-07	545673.1	3753938.1	254.8	0.00	1.70	0.76	YES	
L0040672	0	0.61350E-07	545676.8	3753938.1	254.7	0.00	1.70	0.76	YES	
L0040673	0	0.61350E-07	545680.4	3753938.1	254.7	0.00	1.70	0.76	YES	
L0040674	0	0.61350E-07	545684.1	3753938.2	254.7	0.00	1.70	0.76	YES	
L0040675	0	0.61350E-07	545687.7	3753938.2	254.7	0.00	1.70	0.76	YES	

L0040676	0	0.61350E-07	545691.4	3753938.2	254.6	0.00	1.70	0.76	YES	
L0040677	0	0.61350E-07	545695.0	3753938.2	254.6	0.00	1.70	0.76	YES	
L0040678	0	0.61350E-07	545698.7	3753938.2	254.6	0.00	1.70	0.76	YES	
L0040679	0	0.61350E-07	545702.4	3753938.2	254.6	0.00	1.70	0.76	YES	
L0040680	0	0.61350E-07	545706.0	3753938.2	254.5	0.00	1.70	0.76	YES	
L0040681	0	0.61350E-07	545709.7	3753938.2	254.5	0.00	1.70	0.76	YES	
L0040682	0	0.61350E-07	545713.3	3753938.2	254.5	0.00	1.70	0.76	YES	
L0040683	0	0.61350E-07	545717.0	3753938.3	254.5	0.00	1.70	0.76	YES	
L0040684	0	0.61350E-07	545720.6	3753938.3	254.5	0.00	1.70	0.76	YES	
L0040685	0	0.61350E-07	545724.3	3753938.3	254.4	0.00	1.70	0.76	YES	
L0040686	0	0.61350E-07	545728.0	3753938.3	254.4	0.00	1.70	0.76	YES	
L0040687	0	0.61350E-07	545731.6	3753938.3	254.4	0.00	1.70	0.76	YES	
L0040688	0	0.61350E-07	545735.3	3753938.3	254.4	0.00	1.70	0.76	YES	
L0040689	0	0.61350E-07	545738.9	3753938.3	254.3	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0040690	0	0.61350E-07	545742.6	3753938.3	254.3	0.00	1.70	0.76	YES	
L0040691	0	0.61350E-07	545746.2	3753938.3	254.3	0.00	1.70	0.76	YES	
L0040692	0	0.61350E-07	545749.9	3753938.4	254.2	0.00	1.70	0.76	YES	
L0040693	0	0.61350E-07	545753.6	3753938.4	254.2	0.00	1.70	0.76	YES	
L0040694	0	0.61350E-07	545757.2	3753938.4	254.2	0.00	1.70	0.76	YES	
L0040695	0	0.61350E-07	545760.9	3753938.4	254.2	0.00	1.70	0.76	YES	
L0040696	0	0.61350E-07	545764.5	3753938.4	254.1	0.00	1.70	0.76	YES	
L0040697	0	0.61350E-07	545768.2	3753938.4	254.1	0.00	1.70	0.76	YES	
L0040698	0	0.61350E-07	545771.8	3753938.4	254.1	0.00	1.70	0.76	YES	
L0040699	0	0.61350E-07	545775.5	3753938.4	254.0	0.00	1.70	0.76	YES	
L0040700	0	0.61350E-07	545779.2	3753938.4	254.0	0.00	1.70	0.76	YES	
L0040701	0	0.61350E-07	545782.8	3753938.5	254.0	0.00	1.70	0.76	YES	
L0040702	0	0.61350E-07	545786.5	3753938.5	254.0	0.00	1.70	0.76	YES	
L0040703	0	0.61350E-07	545790.1	3753938.5	253.9	0.00	1.70	0.76	YES	
L0040704	0	0.61350E-07	545793.8	3753938.5	253.9	0.00	1.70	0.76	YES	
L0040705	0	0.61350E-07	545797.5	3753938.5	253.9	0.00	1.70	0.76	YES	
L0040706	0	0.61350E-07	545801.1	3753938.5	253.8	0.00	1.70	0.76	YES	
L0040707	0	0.61350E-07	545804.8	3753938.5	253.8	0.00	1.70	0.76	YES	
L0040708	0	0.61350E-07	545808.4	3753938.5	253.8	0.00	1.70	0.76	YES	
L0040709	0	0.61350E-07	545812.1	3753938.5	253.7	0.00	1.70	0.76	YES	
L0040710	0	0.61350E-07	545815.7	3753938.5	253.7	0.00	1.70	0.76	YES	
L0040711	0	0.61350E-07	545819.4	3753938.6	253.6	0.00	1.70	0.76	YES	
L0040712	0	0.61350E-07	545823.1	3753938.6	253.6	0.00	1.70	0.76	YES	

L0040713	0	0.61350E-07	545826.7	3753938.6	253.5	0.00	1.70	0.76	YES	
L0040714	0	0.61350E-07	545830.4	3753938.6	253.5	0.00	1.70	0.76	YES	
L0040715	0	0.61350E-07	545834.0	3753938.6	253.4	0.00	1.70	0.76	YES	
L0040716	0	0.61350E-07	545837.7	3753938.6	253.4	0.00	1.70	0.76	YES	
L0040717	0	0.61350E-07	545841.3	3753938.6	253.3	0.00	1.70	0.76	YES	
L0040718	0	0.61350E-07	545845.0	3753938.6	253.3	0.00	1.70	0.76	YES	
L0040719	0	0.61350E-07	545848.7	3753938.6	253.3	0.00	1.70	0.76	YES	
L0040720	0	0.61350E-07	545852.3	3753938.7	253.3	0.00	1.70	0.76	YES	
L0040721	0	0.61350E-07	545856.0	3753938.7	253.3	0.00	1.70	0.76	YES	
L0040722	0	0.61350E-07	545859.6	3753938.7	253.3	0.00	1.70	0.76	YES	
L0040723	0	0.61350E-07	545863.3	3753938.7	253.3	0.00	1.70	0.76	YES	
L0040724	0	0.61350E-07	545866.9	3753938.7	253.2	0.00	1.70	0.76	YES	
L0040725	0	0.61350E-07	545870.6	3753938.7	253.2	0.00	1.70	0.76	YES	
L0040726	0	0.61350E-07	545874.3	3753938.7	253.2	0.00	1.70	0.76	YES	
L0040727	0	0.61350E-07	545877.9	3753938.7	253.2	0.00	1.70	0.76	YES	
L0040728	0	0.61350E-07	545881.6	3753938.7	253.2	0.00	1.70	0.76	YES	
L0040729	0	0.61350E-07	545885.2	3753938.8	253.2	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0040730	0	0.61350E-07	545888.9	3753938.8	253.1	0.00	1.70	0.76	YES	
L0040731	0	0.61350E-07	545892.5	3753938.8	253.1	0.00	1.70	0.76	YES	
L0040732	0	0.61350E-07	545896.2	3753938.8	253.1	0.00	1.70	0.76	YES	
L0040733	0	0.61350E-07	545899.9	3753938.8	253.0	0.00	1.70	0.76	YES	
L0040734	0	0.61350E-07	545903.5	3753938.8	253.0	0.00	1.70	0.76	YES	
L0040735	0	0.61350E-07	545907.2	3753938.8	252.9	0.00	1.70	0.76	YES	
L0040736	0	0.61350E-07	545910.8	3753938.8	252.9	0.00	1.70	0.76	YES	
L0040737	0	0.61350E-07	545914.5	3753938.8	252.8	0.00	1.70	0.76	YES	
L0040738	0	0.61350E-07	545918.2	3753938.9	252.8	0.00	1.70	0.76	YES	
L0040739	0	0.61350E-07	545921.8	3753938.9	252.7	0.00	1.70	0.76	YES	
L0040740	0	0.61350E-07	545925.5	3753938.9	252.7	0.00	1.70	0.76	YES	
L0040741	0	0.61350E-07	545929.1	3753938.9	252.7	0.00	1.70	0.76	YES	
L0040742	0	0.61350E-07	545932.8	3753938.9	252.6	0.00	1.70	0.76	YES	
L0040743	0	0.61350E-07	545936.4	3753938.9	252.6	0.00	1.70	0.76	YES	
L0040744	0	0.61350E-07	545940.1	3753938.9	252.6	0.00	1.70	0.76	YES	
L0040745	0	0.61350E-07	545943.8	3753938.9	252.5	0.00	1.70	0.76	YES	
L0040746	0	0.61350E-07	545947.4	3753938.9	252.5	0.00	1.70	0.76	YES	
L0040747	0	0.61350E-07	545951.1	3753938.9	252.5	0.00	1.70	0.76	YES	
L0040748	0	0.61350E-07	545954.7	3753939.0	252.4	0.00	1.70	0.76	YES	
L0040749	0	0.61350E-07	545958.4	3753939.0	252.4	0.00	1.70	0.76	YES	

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L0040750         0   0.61350E-07  545962.0 3753939.0   252.4     0.00     1.70     0.76     YES
L0040751         0   0.61350E-07  545965.7 3753939.0   252.4     0.00     1.70     0.76     YES
L0040752         0   0.61350E-07  545969.4 3753939.0   252.4     0.00     1.70     0.76     YES
L0040753         0   0.61350E-07  545973.0 3753939.0   252.3     0.00     1.70     0.76     YES
L0040754         0   0.61350E-07  545976.7 3753939.0   252.3     0.00     1.70     0.76     YES
L0040755         0   0.61350E-07  545980.3 3753939.0   252.2     0.00     1.70     0.76     YES
L0040756         0   0.61350E-07  545984.0 3753939.0   252.2     0.00     1.70     0.76     YES
L0040757         0   0.61350E-07  545987.6 3753939.1   252.2     0.00     1.70     0.76     YES
L0040758         0   0.61350E-07  545991.3 3753939.1   252.1     0.00     1.70     0.76     YES
L0040759         0   0.61350E-07  545995.0 3753939.1   252.1     0.00     1.70     0.76     YES
L0040760         0   0.61350E-07  545998.6 3753939.1   252.1     0.00     1.70     0.76     YES
L0040761         0   0.61350E-07  546002.3 3753939.1   252.1     0.00     1.70     0.76     YES
L0040762         0   0.61350E-07  546005.9 3753939.1   252.0     0.00     1.70     0.76     YES
L0040763         0   0.61350E-07  546009.6 3753939.1   252.0     0.00     1.70     0.76     YES
L0040764         0   0.61350E-07  546013.2 3753939.1   252.0     0.00     1.70     0.76     YES
L0040765         0   0.61350E-07  546016.9 3753939.1   252.0     0.00     1.70     0.76     YES
L0040766         0   0.61350E-07  546020.6 3753939.2   252.0     0.00     1.70     0.76     YES
L0040767         0   0.61350E-07  546024.2 3753939.2   252.0     0.00     1.70     0.76     YES
L0040768         0   0.61350E-07  546027.9 3753939.2   252.0     0.00     1.70     0.76     YES
L0040769         0   0.61350E-07  546031.5 3753939.2   252.0     0.00     1.70     0.76     YES

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 2yr                          ***        05/22/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 2 yr                               ***        10:45:00
                                                                                                                PAGE  99
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** VOLUME SOURCE DATA ***

             NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.   URBAN  EMISSION RATE
  SOURCE      PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT     SY       SZ     SOURCE  SCALAR VARY
    ID        CATS.              (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)             BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

L0040770         0   0.61350E-07  546035.2 3753939.2   251.9     0.00     1.70     0.76     YES
L0040771         0   0.61350E-07  546038.9 3753939.2   251.9     0.00     1.70     0.76     YES
L0040772         0   0.61350E-07  546042.5 3753939.2   251.9     0.00     1.70     0.76     YES
L0040773         0   0.61350E-07  546046.2 3753939.2   251.9     0.00     1.70     0.76     YES
L0040774         0   0.61350E-07  546049.8 3753939.2   251.9     0.00     1.70     0.76     YES
L0040775         0   0.61350E-07  546053.5 3753939.3   251.9     0.00     1.70     0.76     YES
L0040776         0   0.61350E-07  546057.1 3753939.3   251.9     0.00     1.70     0.76     YES

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 2yr                          ***        05/22/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 2 yr                               ***        10:45:00
                                                                                                                PAGE 100
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                    *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID                                        SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0038833 , L0038834 , L0038835 , L0038836 , L0038837 , L0038838 , L0038839 , L0038840 ,
	L0038841 , L0038842 , L0038843 , L0038844 , L0038845 , L0038846 , L0038847 , L0038848 ,
	L0038849 , L0038850 , L0038851 , L0038852 , L0038853 , L0038854 , L0038855 , L0038856 ,
	L0038857 , L0038858 , L0038859 , L0038860 , L0038861 , L0038862 , L0038863 , L0038864 ,
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	L0038889 , L0038890 , L0038891 , L0038892 , L0038893 , L0038894 , L0038895 , L0038896 ,
	L0038897 , L0038898 , L0038899 , L0038900 , L0038901 , L0038902 , L0038903 , L0038904 ,
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	L0038921 , L0038922 , L0038923 , L0038924 , L0038925 , L0038926 , L0038927 , L0038928 ,
	L0038929 , L0038930 , L0038931 , L0038932 , L0038933 , L0038934 , L0038935 , L0038936 ,
	L0038937 , L0038938 , L0038939 , L0038940 , L0038941 , L0038942 , L0038943 , L0038944 ,
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID — SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0039265 , L0039266 , L0039267 , L0039268 , L0039269 , L0039270 , L0039271 , L0039272 ,
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0039297 , L0039298 , L0039299 , L0039300 , L0039301 , L0039302 , L0039303 , L0039304 ,
	L0039305 , L0039306 , L0039307 , L0039308 , L0039309 , L0039310 , L0039311 , L0039312 ,
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	L0039321 , L0039322 , L0039323 , L0039324 , L0039325 , L0039326 , L0039327 , L0039328 ,
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	L0039425 , L0039426 , L0039427 , L0039428 , L0039429 , L0039430 , L0039431 , L0039432 ,
	L0039433 , L0039434 , L0039435 , L0039436 , L0039437 , L0039438 , L0039439 , L0039440 ,
	L0039441 , L0039442 , L0039443 , L0039444 , L0039445 , L0039446 , L0039447 , L0039448 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0039473 , L0039474 , L0039475 , L0039476 , L0039477 , L0039478 , L0039479 , L0039480 ,
	L0039481 , L0039482 , L0039483 , L0039484 , L0039485 , L0039486 , L0039487 , L0039488 ,
	L0039489 , L0039490 , L0039491 , L0039492 , L0039493 , L0039494 , L0039495 , L0039496 ,
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0039697 , L0039698 , L0039699 , L0039700 , L0039701 , L0039702 , L0039703 , L0039704 ,
	L0039705 , L0039706 , L0039707 , L0039708 , L0039709 , L0039710 , L0039711 , L0039712 ,
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0039785 , L0039786 , L0039787 , L0039788 , L0039789 , L0039790 , L0039791 , L0039792 ,
	L0039793 , L0039794 , L0039795 , L0039796 , L0039797 , L0039798 , L0039799 , L0039800 ,
	L0039801 , L0039802 , L0039803 , L0039804 , L0039805 , L0039806 , L0039807 , L0039808 ,
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	L0039857 , L0039858 , L0039859 , L0039860 , L0039861 , L0039862 , L0039863 , L0039864 ,
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	L0039889 , L0039890 , L0039891 , L0039892 , L0039893 , L0039894 , L0039895 , L0039896 ,
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID   SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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L0040673 , L0040674 , L0040675 , L0040676 , L0040677 , L0040678 , L0040679 , L0040680 ,

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*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 2yr                          ***        05/22/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 2 yr                                ***        10:45:00
                                                                                                                PAGE 124
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                      *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID                                          SOURCE IDs
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*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 2yr                          ***        05/22/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 2 yr                                ***        10:45:00
                                                                                                                PAGE 125
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                      *** SOURCE IDs DEFINED AS URBAN SOURCES ***

 URBAN ID   URBAN POP                                 SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID URBAN POP SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

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 URBAN ID   URBAN POP                                  SOURCE IDs
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            L0039417    , L0039418    , L0039419    , L0039420    , L0039421    , L0039422    , L0039423    , L0039424    ,
            L0039425    , L0039426    , L0039427    , L0039428    , L0039429    , L0039430    , L0039431    , L0039432    ,
            L0039433    , L0039434    , L0039435    , L0039436    , L0039437    , L0039438    , L0039439    , L0039440    ,
            L0039441    , L0039442    , L0039443    , L0039444    , L0039445    , L0039446    , L0039447    , L0039448    ,

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 2yr                          ***        05/22/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 2 yr                               ***        10:45:00
                                                                                                               PAGE 132
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0039449 , L0039450 , L0039451 , L0039452 , L0039453 , L0039454 , L0039455 , L0039456 ,
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		L0039465 , L0039466 , L0039467 , L0039468 , L0039469 , L0039470 , L0039471 , L0039472 ,
		L0039473 , L0039474 , L0039475 , L0039476 , L0039477 , L0039478 , L0039479 , L0039480 ,
		L0039481 , L0039482 , L0039483 , L0039484 , L0039485 , L0039486 , L0039487 , L0039488 ,
		L0039489 , L0039490 , L0039491 , L0039492 , L0039493 , L0039494 , L0039495 , L0039496 ,
		L0039497 , L0039498 , L0039499 , L0039500 , L0039501 , L0039502 , L0039503 , L0039504 ,
		L0039505 , L0039506 , L0039507 , L0039508 , L0039509 , L0039510 , L0039511 , L0039512 ,
		L0039513 , L0039514 , L0039515 , L0039516 , L0039517 , L0039518 , L0039519 , L0039520 ,
		L0039521 , L0039522 , L0039523 , L0039524 , L0039525 , L0039526 , L0039527 , L0039528 ,
		L0039529 , L0039530 , L0039531 , L0039532 , L0039533 , L0039534 , L0039535 , L0039536 ,
		L0039537 , L0039538 , L0039539 , L0039540 , L0039541 , L0039542 , L0039543 , L0039544 ,
		L0039545 , L0039546 , L0039547 , L0039548 , L0039549 , L0039550 , L0039551 , L0039552 ,
		L0039553 , L0039554 , L0039555 , L0039556 , L0039557 , L0039558 , L0039559 , L0039560 ,
		L0039561 , L0039562 , L0039563 , L0039564 , L0039565 , L0039566 , L0039567 , L0039568 ,
		L0039569 , L0039570 , L0039571 , L0039572 , L0039573 , L0039574 , L0039575 , L0039576 ,
		L0039577 , L0039578 , L0039579 , L0039580 , L0039581 , L0039582 , L0039583 , L0039584 ,
		L0039585 , L0039586 , L0039587 , L0039588 , L0039589 , L0039590 , L0039591 , L0039592 ,
		L0039593 , L0039594 , L0039595 , L0039596 , L0039597 , L0039598 , L0039599 , L0039600 ,
		L0039601 , L0039602 , L0039603 , L0039604 , L0039605 , L0039606 , L0039607 , L0039608 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0039609 , L0039610 , L0039611 , L0039612 , L0039613 , L0039614 , L0039615 , L0039616 ,
		L0039617 , L0039618 , L0039619 , L0039620 , L0039621 , L0039622 , L0039623 , L0039624 ,
		L0039625 , L0039626 , L0039627 , L0039628 , L0039629 , L0039630 , L0039631 , L0039632 ,
		L0039633 , L0039634 , L0039635 , L0039636 , L0039637 , L0039638 , L0039639 , L0039640 ,
		L0039641 , L0039642 , L0039643 , L0039644 , L0039645 , L0039646 , L0039647 , L0039648 ,
		L0039649 , L0039650 , L0039651 , L0039652 , L0039653 , L0039654 , L0039655 , L0039656 ,
		L0039657 , L0039658 , L0039659 , L0039660 , L0039661 , L0039662 , L0039663 , L0039664 ,
		L0039665 , L0039666 , L0039667 , L0039668 , L0039669 , L0039670 , L0039671 , L0039672 ,
		L0039673 , L0039674 , L0039675 , L0039676 , L0039677 , L0039678 , L0039679 , L0039680 ,
		L0039681 , L0039682 , L0039683 , L0039684 , L0039685 , L0039686 , L0039687 , L0039688 ,
		L0039689 , L0039690 , L0039691 , L0039692 , L0039693 , L0039694 , L0039695 , L0039696 ,
		L0039697 , L0039698 , L0039699 , L0039700 , L0039701 , L0039702 , L0039703 , L0039704 ,
		L0039705 , L0039706 , L0039707 , L0039708 , L0039709 , L0039710 , L0039711 , L0039712 ,
		L0039713 , L0039714 , L0039715 , L0039716 , L0039717 , L0039718 , L0039719 , L0039720 ,
		L0039721 , L0039722 , L0039723 , L0039724 , L0039725 , L0039726 , L0039727 , L0039728 ,
		L0039729 , L0039730 , L0039731 , L0039732 , L0039733 , L0039734 , L0039735 , L0039736 ,
		L0039737 , L0039738 , L0039739 , L0039740 , L0039741 , L0039742 , L0039743 , L0039744 ,
		L0039745 , L0039746 , L0039747 , L0039748 , L0039749 , L0039750 , L0039751 , L0039752 ,
		L0039753 , L0039754 , L0039755 , L0039756 , L0039757 , L0039758 , L0039759 , L0039760 ,
		L0039761 , L0039762 , L0039763 , L0039764 , L0039765 , L0039766 , L0039767 , L0039768 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
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		L0039777 , L0039778 , L0039779 , L0039780 , L0039781 , L0039782 , L0039783 , L0039784 ,
		L0039785 , L0039786 , L0039787 , L0039788 , L0039789 , L0039790 , L0039791 , L0039792 ,
		L0039793 , L0039794 , L0039795 , L0039796 , L0039797 , L0039798 , L0039799 , L0039800 ,
		L0039801 , L0039802 , L0039803 , L0039804 , L0039805 , L0039806 , L0039807 , L0039808 ,
		L0039809 , L0039810 , L0039811 , L0039812 , L0039813 , L0039814 , L0039815 , L0039816 ,
		L0039817 , L0039818 , L0039819 , L0039820 , L0039821 , L0039822 , L0039823 , L0039824 ,
		L0039825 , L0039826 , L0039827 , L0039828 , L0039829 , L0039830 , L0039831 , L0039832 ,
		L0039833 , L0039834 , L0039835 , L0039836 , L0039837 , L0039838 , L0039839 , L0039840 ,
		L0039841 , L0039842 , L0039843 , L0039844 , L0039845 , L0039846 , L0039847 , L0039848 ,
		L0039849 , L0039850 , L0039851 , L0039852 , L0039853 , L0039854 , L0039855 , L0039856 ,
		L0039857 , L0039858 , L0039859 , L0039860 , L0039861 , L0039862 , L0039863 , L0039864 ,
		L0039865 , L0039866 , L0039867 , L0039868 , L0039869 , L0039870 , L0039871 , L0039872 ,
		L0039873 , L0039874 , L0039875 , L0039876 , L0039877 , L0039878 , L0039879 , L0039880 ,
		L0039881 , L0039882 , L0039883 , L0039884 , L0039885 , L0039886 , L0039887 , L0039888 ,
		L0039889 , L0039890 , L0039891 , L0039892 , L0039893 , L0039894 , L0039895 , L0039896 ,
		L0039897 , L0039898 , L0039899 , L0039900 , L0039901 , L0039902 , L0039903 , L0039904 ,
		L0039905 , L0039906 , L0039907 , L0039908 , L0039909 , L0039910 , L0039911 , L0039912 ,
		L0039913 , L0039914 , L0039915 , L0039916 , L0039917 , L0039918 , L0039919 , L0039920 ,
		L0039921 , L0039922 , L0039923 , L0039924 , L0039925 , L0039926 , L0039927 , L0039928 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
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		L0039945 , L0039946 , L0039947 , L0039948 , L0039949 , L0039950 , L0039951 , L0039952 ,
		L0039953 , L0039954 , L0039955 , L0039956 , L0039957 , L0039958 , L0039959 , L0039960 ,
		L0039961 , L0039962 , L0039963 , L0039964 , L0039965 , L0039966 , L0039967 , L0039968 ,
		L0039969 , L0039970 , L0039971 , L0039972 , L0039973 , L0039974 , L0039975 , L0039976 ,
		L0039977 , L0039978 , L0039979 , L0039980 , L0039981 , L0039982 , L0039983 , L0039984 ,
		L0039985 , L0039986 , L0039987 , L0039988 , L0039989 , L0039990 , L0039991 , L0039992 ,
		L0039993 , L0039994 , L0039995 , L0039996 , L0039997 , L0039998 , L0039999 , L0040000 ,
		L0040001 , L0040002 , L0040003 , L0040004 , L0040005 , L0040006 , L0040007 , L0040008 ,
		L0040009 , L0040010 , L0040011 , L0040012 , L0040013 , L0040014 , L0040015 , L0040016 ,
		L0040017 , L0040018 , L0040019 , L0040020 , L0040021 , L0040022 , L0040023 , L0040024 ,
		L0040025 , L0040026 , L0040027 , L0040028 , L0040029 , L0040030 , L0040031 , L0040032 ,
		L0040033 , L0040034 , L0040035 , L0040036 , L0040037 , L0040038 , L0040039 , L0040040 ,
		L0040041 , L0040042 , L0040043 , L0040044 , L0040045 , L0040046 , L0040047 , L0040048 ,
		L0040049 , L0040050 , L0040051 , L0040052 , L0040053 , L0040054 , L0040055 , L0040056 ,
		L0040057 , L0040058 , L0040059 , L0040060 , L0040061 , L0040062 , L0040063 , L0040064 ,
		L0040065 , L0040066 , L0040067 , L0040068 , L0040069 , L0040070 , L0040071 , L0040072 ,
		L0040073 , L0040074 , L0040075 , L0040076 , L0040077 , L0040078 , L0040079 , L0040080 ,
		L0040081 , L0040082 , L0040083 , L0040084 , L0040085 , L0040086 , L0040087 , L0040088 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
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		L0040105 , L0040106 , L0040107 , L0040108 , L0040109 , L0040110 , L0040111 , L0040112 ,
		L0040113 , L0040114 , L0040115 , L0040116 , L0040117 , L0040118 , L0040119 , L0040120 ,
		L0040121 , L0040122 , L0040123 , L0040124 , STCK5 , STCK6 , STCK7 , STCK8 ,
		STCK9 , STCK10 , STCK11 , STCK12 , STCK13 , STCK14 , STCK15 , STCK16 ,
		STCK18 , STCK19 , STCK20 , STCK21 , STCK22 , STCK23 , STCK24 , STCK25 ,
		STCK26 , STCK27 , STCK28 , STCK29 , STCK30 , STCK31 , STCK32 , STCK33 ,
		STCK34 , L0040777 , L0040778 , L0040779 , L0040780 , L0040781 , L0040782 , L0040783 ,
		L0040784 , L0040785 , L0040786 , L0040787 , L0040788 , L0040789 , L0040790 , L0040791 ,
		L0040792 , L0040793 , L0040794 , L0040795 , L0040796 , L0040797 , L0040798 , L0040799 ,
		L0040800 , L0040801 , L0040802 , L0040803 , L0040804 , L0040805 , L0040806 , L0040807 ,
		L0040808 , L0040809 , L0040810 , L0040811 , L0040812 , L0040813 , L0040814 , L0040815 ,
		L0040816 , L0040817 , L0040818 , L0040819 , L0040820 , L0040821 , L0040822 , L0040823 ,
		L0040824 , L0040825 , L0040826 , L0040827 , L0040828 , L0040829 , L0040830 , L0040831 ,
		L0040832 , L0040833 , L0040834 , L0040835 , L0040836 , L0040837 , L0040838 , L0040839 ,
		L0040840 , L0040841 , L0040842 , L0040843 , L0040844 , L0040845 , L0040846 , L0040847 ,
		L0040848 , L0040849 , L0040850 , L0040851 , L0040852 , L0040853 , L0040854 , L0040855 ,
		L0040856 , L0040857 , L0040858 , L0040859 , L0040860 , L0040861 , L0040862 , L0040863 ,
		L0040864 , L0040865 , L0040866 , L0040867 , L0040868 , L0040869 , L0040870 , L0040871 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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L0040888 , L0040889 , L0040890 , L0040891 , L0040892 , L0040893 , L0040894 , L0040895 ,
L0040896 , L0040897 , L0040898 , L0040899 , L0040900 , L0040901 , L0040902 , L0040903 ,
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L0040912 , L0040913 , L0040914 , L0040915 , L0040916 , L0040917 , L0040918 , L0040919 ,
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L0041016 , L0041017 , L0041018 , L0041019 , L0041020 , L0041021 , L0041022 , L0041023 ,
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
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		L0041040 , L0041041 , L0041042 , L0041043 , L0041044 , L0041045 , L0041046 , L0041047 ,
		L0041048 , L0041049 , L0041050 , L0041051 , L0041052 , L0041053 , L0041054 , L0041055 ,
		L0041056 , L0041057 , L0041058 , L0041059 , L0041060 , L0041061 , L0041062 , L0041063 ,
		L0041064 , L0041065 , L0041066 , L0041067 , L0041068 , L0041069 , L0041070 , L0041071 ,
		L0041072 , L0041073 , L0041074 , L0041075 , L0041076 , L0041077 , L0041078 , L0041079 ,
		L0041080 , L0041081 , L0041082 , L0041981 , L0041982 , L0041983 , L0041984 , L0041985 ,
		L0041986 , L0041987 , L0041988 , L0041989 , L0041990 , L0041991 , L0041992 , L0041993 ,
		L0041994 , L0041995 , L0041996 , L0041997 , L0041998 , L0041999 , L0042000 , L0042001 ,
		L0042002 , L0042003 , L0042004 , L0042005 , L0042006 , L0042007 , L0042008 , L0042009 ,
		L0042010 , L0042011 , L0042012 , L0042013 , L0042014 , L0042015 , L0042016 , L0042017 ,
		L0042018 , L0042019 , L0042020 , L0042021 , L0042022 , L0042023 , L0042024 , L0042025 ,
		L0042026 , L0042027 , L0042028 , L0042029 , L0042030 , L0042031 , L0042032 , L0042033 ,
		L0042034 , L0042035 , L0042036 , L0042037 , L0042038 , L0042039 , L0042040 , L0042041 ,
		L0042042 , L0042043 , L0042044 , L0042045 , L0042046 , L0042047 , L0042048 , L0042049 ,
		L0042050 , L0042051 , L0042052 , L0042053 , L0042054 , L0042055 , L0042056 , L0042057 ,
		L0042058 , L0042059 , L0042060 , L0042061 , L0042062 , L0042063 , L0042064 , L0042065 ,
		L0042066 , L0042067 , L0042068 , L0042069 , L0042070 , L0042071 , L0042072 , L0042073 ,
		L0042074 , L0042075 , L0042076 , L0042077 , L0042078 , L0042079 , L0042080 , L0042081 ,
		L0042082 , L0042083 , L0042084 , L0042085 , L0042086 , L0042087 , L0042088 , L0042089 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0042090 , L0042091 , L0042092 , L0042093 , L0042094 , L0042095 , L0042096 , L0042097 ,
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		L0042106 , L0042107 , L0042108 , L0042109 , L0042110 , L0042111 , L0042112 , L0042113 ,
		L0042114 , L0042115 , L0042116 , L0042117 , L0042118 , L0042119 , L0042120 , L0042121 ,
		L0042122 , L0042123 , L0042124 , L0042125 , L0042126 , L0042127 , L0042128 , L0042129 ,
		L0042130 , L0042131 , L0042132 , L0042133 , L0042134 , L0042135 , L0042136 , L0042137 ,
		L0042138 , L0042139 , L0042140 , L0042141 , L0042142 , L0042143 , L0042144 , L0042145 ,
		L0042146 , L0042147 , L0042148 , L0042149 , L0042150 , L0042151 , L0042152 , L0042153 ,
		L0042154 , L0042155 , L0042156 , L0042157 , L0042158 , L0042159 , L0042160 , L0042161 ,
		L0042162 , L0042163 , L0042164 , L0042165 , L0042166 , L0042167 , L0042168 , L0042169 ,
		L0042170 , L0042171 , L0042172 , L0042173 , L0042174 , L0042175 , L0042176 , L0042177 ,
		L0042178 , L0042179 , L0045445 , L0045446 , L0045447 , L0045448 , L0045449 , L0045450 ,
		L0045451 , L0045452 , L0045453 , L0045454 , L0045455 , L0045456 , L0045457 , L0045458 ,
		L0045459 , L0045460 , L0045461 , L0045462 , L0045463 , L0045464 , L0045465 , L0045466 ,
		L0045467 , L0045468 , L0045469 , L0045470 , L0045471 , L0045472 , L0045473 , L0045474 ,
		L0045475 , L0045476 , L0045477 , L0045478 , L0045479 , L0045480 , L0045481 , L0045482 ,
		L0045483 , L0045484 , L0045485 , L0045486 , L0045487 , L0045488 , L0045489 , L0045490 ,
		L0045491 , L0045492 , L0045493 , L0045494 , L0045495 , L0045496 , L0045497 , L0045498 ,
		L0045499 , L0045500 , L0045501 , L0045502 , L0045503 , L0045504 , L0045505 , L0045506 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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L0045531 , L0045532 , L0045533 , L0045534 , L0045535 , L0045536 , L0045537 , L0045538 ,
L0045539 , L0045540 , L0045541 , L0045542 , L0045543 , L0045544 , L0045545 , L0045546 ,
L0045547 , L0045548 , L0045549 , L0045550 , L0045551 , L0045552 , L0045553 , L0045554 ,
L0045555 , L0045556 , L0045557 , L0045558 , L0045559 , L0045560 , L0045561 , L0045562 ,
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L0045587 , L0045588 , L0045589 , L0045590 , L0045591 , L0045592 , L0045593 , L0045594 ,
L0045595 , L0045596 , L0045597 , L0045598 , L0045599 , L0045600 , L0045601 , L0045602 ,
L0045603 , L0045604 , L0045605 , L0045606 , L0045607 , L0045608 , L0045609 , L0045610 ,
L0045611 , L0045612 , L0045613 , L0045614 , L0045615 , L0045616 , L0045617 , L0045618 ,
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L0045627 , L0045628 , L0045629 , L0045630 , L0045631 , L0045632 , L0045633 , L0045634 ,
L0045635 , L0045636 , L0045637 , L0045638 , L0045639 , L0045640 , L0045641 , L0045642 ,
L0045643 , L0045644 , L0045645 , L0045646 , L0045647 , L0045648 , L0045649 , L0045650 ,
L0045651 , L0045652 , L0045653 , L0045654 , L0045655 , L0045656 , L0045657 , L0045658 ,
L0045659 , L0045660 , L0045661 , L0045662 , L0045663 , L0045664 , L0045665 , L0045666 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0045675 , L0045676 , L0045677 , L0045678 , L0045679 , L0045680 , L0045681 , L0045682 ,

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK1

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	142.7,	83.5,	-3.6,	-26.8,	2	9.1,	146.8,	103.3,	-9.4,	-19.7,
3	9.1,	146.5,	119.9,	-15.0,	-11.9,	4	9.1,	141.6,	132.9,	-20.1,	-3.9,
5	9.1,	132.5,	141.9,	-24.6,	4.3,	6	9.1,	119.3,	146.5,	-28.3,	12.4,
7	9.1,	102.6,	146.7,	-31.2,	20.1,	8	9.1,	82.7,	142.5,	-33.1,	27.2,
9	9.1,	61.2,	134.3,	-34.1,	33.0,	10	9.1,	83.5,	142.7,	-44.6,	38.2,
11	9.1,	103.3,	146.8,	-53.8,	42.2,	12	9.1,	119.9,	146.5,	-61.3,	45.0,
13	9.1,	132.9,	141.6,	-67.0,	46.4,	14	9.1,	141.9,	132.5,	-70.6,	46.4,
15	9.1,	146.5,	119.3,	-72.1,	44.9,	16	9.1,	146.7,	102.6,	-71.4,	42.1,

17	9.1,	142.5,	82.7,	-68.5,	38.1,	18	9.1,	134.3,	61.2,	-63.6,	33.1,
19	9.1,	142.7,	83.5,	-79.9,	26.8,	20	9.1,	146.8,	103.3,	-93.9,	19.7,
21	9.1,	146.5,	119.9,	-104.9,	11.9,	22	9.1,	141.6,	132.9,	-112.8,	3.9,
23	9.1,	132.5,	141.9,	-117.3,	-4.3,	24	9.1,	119.3,	146.5,	-118.2,	-12.4,
25	9.1,	102.6,	146.7,	-115.5,	-20.1,	26	9.1,	82.7,	142.5,	-109.3,	-27.2,
27	9.1,	61.2,	134.3,	-100.2,	-33.0,	28	9.1,	83.5,	142.7,	-98.1,	-38.2,
29	9.1,	103.3,	146.8,	-93.1,	-42.2,	30	9.1,	119.9,	146.5,	-85.2,	-45.0,
31	9.1,	132.9,	141.6,	-74.7,	-46.4,	32	9.1,	141.9,	132.5,	-61.9,	-46.4,
33	9.1,	146.5,	119.3,	-47.3,	-44.9,	34	9.1,	146.7,	102.6,	-31.2,	-42.1,
35	9.1,	142.5,	82.7,	-14.2,	-38.1,	36	9.1,	134.3,	61.2,	2.4,	-33.1,

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	46.0,	67.3,	-32.5,	21.5,	2	9.1,	55.1,	71.0,	-38.2,	21.3,
3	9.1,	62.6,	72.5,	-42.7,	20.4,	4	9.1,	68.2,	71.8,	-45.9,	18.9,
5	9.1,	71.8,	68.9,	-47.8,	16.8,	6	9.1,	73.1,	63.9,	-48.1,	14.2,
7	9.1,	72.2,	57.0,	-47.0,	11.2,	8	9.1,	69.1,	48.3,	-44.5,	7.9,
9	9.1,	63.9,	38.2,	-40.6,	4.3,	10	9.1,	67.3,	46.0,	-44.5,	1.1,
11	9.1,	71.0,	55.1,	-48.8,	-2.7,	12	9.1,	72.5,	62.6,	-51.7,	-6.5,
13	9.1,	71.8,	68.2,	-53.0,	-10.1,	14	9.1,	68.9,	71.8,	-52.7,	-13.3,
15	9.1,	63.9,	73.1,	-50.8,	-16.2,	16	9.1,	57.0,	72.2,	-47.3,	-18.6,
17	9.1,	48.3,	69.1,	-42.4,	-20.4,	18	9.1,	38.2,	63.9,	-36.2,	-21.5,
19	9.1,	46.0,	67.3,	-34.8,	-21.5,	20	9.1,	55.1,	71.0,	-32.8,	-21.3,
21	9.1,	62.6,	72.5,	-29.8,	-20.4,	22	9.1,	68.2,	71.8,	-25.8,	-18.9,
23	9.1,	71.8,	68.9,	-21.1,	-16.8,	24	9.1,	73.1,	63.9,	-15.8,	-14.2,
25	9.1,	72.2,	57.0,	-9.9,	-11.2,	26	9.1,	69.1,	48.3,	-3.8,	-7.9,
27	9.1,	63.9,	38.2,	2.4,	-4.3,	28	9.1,	67.3,	46.0,	-1.5,	-1.1,
29	9.1,	71.0,	55.1,	-6.3,	2.7,	30	9.1,	72.5,	62.6,	-10.9,	6.5,
31	9.1,	71.8,	68.2,	-15.2,	10.1,	32	9.1,	68.9,	71.8,	-19.1,	13.3,
33	9.1,	63.9,	73.1,	-22.3,	16.2,	34	9.1,	57.0,	72.2,	-24.9,	18.6,
35	9.1,	48.3,	69.1,	-26.7,	20.4,	36	9.1,	38.2,	63.9,	-27.7,	21.5,

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	74.7,	54.0,	-53.7,	-6.4,	2	9.1,	78.7,	63.6,	-56.9,	-10.9,
3	9.1,	80.4,	71.2,	-58.4,	-15.1,	4	9.1,	150.5,	143.5,	10.8,	15.8,
5	9.1,	142.5,	151.6,	2.7,	29.8,	6	9.1,	130.2,	155.1,	-5.4,	42.8,
7	9.1,	113.9,	153.8,	-13.4,	54.6,	8	9.1,	53.6,	74.7,	-40.4,	-27.1,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	54.0,	74.7,	-30.9,	-26.7,
11	9.1,	63.6,	78.7,	-28.4,	-25.2,	12	9.1,	71.2,	80.4,	-25.1,	-22.9,
13	9.1,	76.7,	79.6,	-21.0,	-19.9,	14	9.1,	151.6,	142.5,	-101.0,	78.5,
15	9.1,	155.1,	130.2,	-107.9,	72.1,	16	9.1,	153.8,	113.9,	-111.6,	63.5,
17	9.1,	147.9,	94.2,	-111.8,	53.0,	18	9.1,	137.5,	72.4,	-109.5,	40.8,
19	9.1,	146.8,	94.8,	-126.9,	27.3,	20	9.1,	152.7,	114.7,	-140.4,	13.2,
21	9.1,	153.9,	131.1,	-149.6,	-1.3,	22	9.1,	150.5,	143.5,	-154.3,	-15.8,
23	9.1,	142.5,	151.6,	-154.3,	-29.8,	24	9.1,	130.2,	155.1,	-149.7,	-42.8,
25	9.1,	113.9,	153.8,	-140.4,	-54.6,	26	9.1,	53.6,	74.7,	-34.3,	27.1,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	54.0,	74.7,	-43.7,	26.7,
29	9.1,	63.6,	78.7,	-50.3,	25.2,	30	9.1,	71.2,	80.4,	-55.3,	22.9,

31	9.1,	76.7,	79.6,	-58.6,	19.9,	32	9.1,	151.6,	142.5,	-41.5,	-78.5,
33	9.1,	155.1,	130.2,	-22.3,	-72.1,	34	9.1,	153.8,	113.9,	-2.3,	-63.5,
35	9.1,	147.9,	94.2,	17.7,	-53.0,	36	9.1,	68.3,	42.8,	-48.8,	-1.7,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	146.8,	94.8,	16.8,	59.6,	2	9.1,	152.7,	114.7,	-4.5,	69.7,
3	9.1,	153.9,	131.1,	-25.6,	77.7,	4	9.1,	83.6,	79.5,	-59.4,	-19.5,
5	9.1,	80.2,	83.1,	-57.5,	-22.7,	6	9.1,	74.3,	84.1,	-53.8,	-25.1,
7	9.1,	66.1,	82.6,	-48.5,	-26.7,	8	9.1,	56.0,	78.6,	-41.8,	-27.6,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	55.1,	78.8,	-32.3,	-26.8,
11	9.1,	114.7,	152.7,	-146.0,	52.9,	12	9.1,	131.1,	153.9,	-154.7,	40.0,
13	9.1,	143.5,	150.5,	-158.6,	25.9,	14	9.1,	151.6,	142.5,	-157.7,	10.9,
15	9.1,	155.1,	130.2,	-152.1,	-4.3,	16	9.1,	153.8,	113.9,	-141.8,	-19.4,
17	9.1,	147.9,	94.2,	-127.2,	-33.9,	18	9.1,	137.5,	72.4,	-109.5,	-47.4,
19	9.1,	146.8,	94.8,	-111.5,	-59.6,	20	9.1,	152.7,	114.7,	-110.2,	-69.7,
21	9.1,	153.9,	131.1,	-105.5,	-77.7,	22	9.1,	83.6,	79.5,	-20.1,	19.5,
23	9.1,	80.2,	83.1,	-25.6,	22.7,	24	9.1,	74.3,	84.1,	-30.3,	25.1,
25	9.1,	66.1,	82.6,	-34.1,	26.7,	26	9.1,	56.0,	78.6,	-36.8,	27.6,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	55.1,	78.8,	-46.5,	26.8,
29	9.1,	114.7,	152.7,	-6.6,	-52.9,	30	9.1,	131.1,	153.9,	0.8,	-40.0,
31	9.1,	143.5,	150.5,	8.1,	-25.9,	32	9.1,	151.6,	142.5,	15.2,	-10.9,
33	9.1,	84.1,	74.3,	-62.2,	11.8,	34	9.1,	82.6,	66.1,	-59.8,	7.2,
35	9.1,	78.6,	56.0,	-55.6,	2.5,	36	9.1,	72.2,	44.1,	-49.6,	-2.3,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK5

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	142.7,	83.5,	-13.4,	31.6,	2	9.1,	146.8,	103.3,	-29.2,	36.2,
3	9.1,	146.5,	119.9,	-44.2,	39.6,	4	9.1,	141.6,	132.9,	-57.8,	41.8,
5	9.1,	132.5,	141.9,	-69.6,	42.8,	6	9.1,	119.3,	146.5,	-79.4,	42.4,
7	9.1,	102.6,	146.7,	-86.7,	40.8,	8	9.1,	82.7,	142.5,	-91.4,	37.9,
9	9.1,	61.2,	134.3,	-93.3,	33.5,	10	9.1,	83.5,	142.7,	-103.0,	28.4,
11	9.1,	103.3,	146.8,	-109.6,	22.4,	12	9.1,	119.9,	146.5,	-112.8,	15.8,
13	9.1,	132.9,	141.6,	-112.6,	8.7,	14	9.1,	141.9,	132.5,	-109.0,	1.3,
15	9.1,	146.5,	119.3,	-102.1,	-6.1,	16	9.1,	146.7,	102.6,	-92.1,	-13.4,
17	9.1,	142.5,	82.7,	-79.3,	-20.2,	18	9.1,	134.3,	61.2,	-64.0,	-26.2,
19	9.1,	142.7,	83.5,	-70.1,	-31.6,	20	9.1,	146.8,	103.3,	-74.1,	-36.2,
21	9.1,	146.5,	119.9,	-75.7,	-39.6,	22	9.1,	141.6,	132.9,	-75.1,	-41.8,
23	9.1,	132.5,	141.9,	-72.2,	-42.8,	24	9.1,	119.3,	146.5,	-67.1,	-42.4,
25	9.1,	102.6,	146.7,	-60.0,	-40.8,	26	9.1,	82.7,	142.5,	-51.1,	-37.9,
27	9.1,	61.2,	134.3,	-41.0,	-33.5,	28	9.1,	83.5,	142.7,	-39.7,	-28.4,

29	9.1,	103.3,	146.8,	-37.2,	-22.4,	30	9.1,	119.9,	146.5,	-33.6,	-15.8,
31	9.1,	132.9,	141.6,	-29.0,	-8.7,	32	9.1,	141.9,	132.5,	-23.5,	-1.3,
33	9.1,	146.5,	119.3,	-17.2,	6.1,	34	9.1,	146.7,	102.6,	-10.5,	13.4,
35	9.1,	142.5,	82.7,	-3.4,	20.2,	36	9.1,	134.3,	61.2,	2.9,	26.2,

SOURCE ID: STCK6

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	145.1,	85.7,	-3.0,	-22.9,	2	9.1,	149.4,	105.4,	-9.6,	-15.9,
3	9.1,	149.2,	121.9,	-15.9,	-8.3,	4	9.1,	144.5,	134.8,	-21.8,	-0.5,
5	9.1,	135.3,	143.5,	-26.9,	7.4,	6	9.1,	122.1,	147.9,	-31.3,	15.0,
7	9.1,	105.1,	147.8,	-34.7,	22.2,	8	9.1,	85.0,	143.2,	-37.1,	28.7,
9	9.1,	63.9,	136.4,	-38.8,	35.1,	10	9.1,	85.7,	145.1,	-49.6,	39.8,
11	9.1,	105.4,	149.4,	-58.9,	43.1,	12	9.1,	121.9,	149.2,	-66.3,	45.0,
13	9.1,	134.8,	144.5,	-71.8,	45.6,	14	9.1,	143.5,	135.3,	-75.1,	44.8,
15	9.1,	147.9,	122.1,	-76.1,	42.6,	16	9.1,	147.8,	105.1,	-74.8,	39.2,
17	9.1,	143.2,	85.0,	-71.2,	34.5,	18	9.1,	136.4,	63.9,	-67.0,	29.4,
19	9.1,	145.1,	85.7,	-82.7,	22.9,	20	9.1,	149.4,	105.4,	-95.8,	15.9,
21	9.1,	149.2,	121.9,	-106.0,	8.3,	22	9.1,	144.5,	134.8,	-113.0,	0.5,
23	9.1,	135.3,	143.5,	-116.6,	-7.4,	24	9.1,	122.1,	147.9,	-116.6,	-15.0,
25	9.1,	105.1,	147.8,	-113.1,	-22.2,	26	9.1,	85.0,	143.2,	-106.1,	-28.7,
27	9.1,	63.9,	136.4,	-97.5,	-35.1,	28	9.1,	85.7,	145.1,	-95.5,	-39.8,
29	9.1,	105.4,	149.4,	-90.6,	-43.1,	30	9.1,	121.9,	149.2,	-82.9,	-45.0,
31	9.1,	134.8,	144.5,	-72.7,	-45.6,	32	9.1,	143.5,	135.3,	-60.3,	-44.8,
33	9.1,	147.9,	122.1,	-46.0,	-42.6,	34	9.1,	147.8,	105.1,	-30.4,	-39.2,
35	9.1,	143.2,	85.0,	-13.8,	-34.5,	36	9.1,	136.4,	63.9,	3.2,	-29.4,

SOURCE ID: STCK7

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	145.1,	85.7,	-13.2,	36.7,	2	9.1,	149.4,	105.4,	-30.1,	41.1,
3	9.1,	149.2,	121.9,	-46.0,	44.3,	4	9.1,	144.5,	134.8,	-60.5,	46.1,
5	9.1,	135.3,	143.5,	-73.1,	46.5,	6	9.1,	122.1,	147.9,	-83.6,	45.5,
7	9.1,	105.1,	147.8,	-91.5,	43.1,	8	9.1,	85.0,	143.2,	-96.6,	39.4,
9	9.1,	63.9,	136.4,	-99.3,	35.4,	10	9.1,	85.7,	145.1,	-109.2,	29.6,
11	9.1,	105.4,	149.4,	-115.8,	22.7,	12	9.1,	121.9,	149.2,	-118.9,	15.0,
13	9.1,	134.8,	144.5,	-118.3,	6.9,	14	9.1,	143.5,	135.3,	-114.2,	-1.4,
15	9.1,	147.9,	122.1,	-106.6,	-9.6,	16	9.1,	147.8,	105.1,	-95.7,	-17.6,
17	9.1,	143.2,	85.0,	-81.9,	-25.0,	18	9.1,	136.4,	63.9,	-67.3,	-31.2,
19	9.1,	145.1,	85.7,	-72.4,	-36.7,	20	9.1,	149.4,	105.4,	-75.3,	-41.1,
21	9.1,	149.2,	121.9,	-76.0,	-44.3,	22	9.1,	144.5,	134.8,	-74.3,	-46.1,
23	9.1,	135.3,	143.5,	-70.4,	-46.5,	24	9.1,	122.1,	147.9,	-64.3,	-45.5,
25	9.1,	105.1,	147.8,	-56.3,	-43.1,	26	9.1,	85.0,	143.2,	-46.5,	-39.4,
27	9.1,	63.9,	136.4,	-37.0,	-35.4,	28	9.1,	85.7,	145.1,	-35.9,	-29.6,
29	9.1,	105.4,	149.4,	-33.6,	-22.7,	30	9.1,	121.9,	149.2,	-30.3,	-15.0,
31	9.1,	134.8,	144.5,	-26.2,	-6.9,	32	9.1,	143.5,	135.3,	-21.2,	1.4,
33	9.1,	147.9,	122.1,	-15.5,	9.6,	34	9.1,	147.8,	105.1,	-9.4,	17.6,
35	9.1,	143.2,	85.0,	-3.0,	25.0,	36	9.1,	136.4,	63.9,	3.4,	31.2,

SOURCE ID: STCK8

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	44.9,	68.0,	-36.7,	20.3,	2	9.1,	53.9,	70.9,	-41.7,	19.5,
3	9.1,	61.3,	71.8,	-45.4,	18.2,	4	9.1,	66.8,	70.4,	-47.7,	16.2,
5	9.1,	70.2,	66.9,	-48.6,	13.8,	6	9.1,	71.6,	61.4,	-48.0,	11.0,
7	9.1,	70.7,	54.0,	-45.9,	7.9,	8	9.1,	67.7,	45.0,	-42.5,	4.5,
9	9.1,	62.9,	34.6,	-37.7,	0.8,	10	9.1,	68.0,	44.9,	-42.7,	-2.7,
11	9.1,	70.9,	53.9,	-46.5,	-6.2,	12	9.1,	71.8,	61.3,	-48.8,	-9.5,
13	9.1,	70.4,	66.8,	-49.6,	-12.5,	14	9.1,	66.9,	70.2,	-49.0,	-15.1,
15	9.1,	61.4,	71.6,	-46.8,	-17.3,	16	9.1,	54.0,	70.7,	-43.2,	-18.9,
17	9.1,	45.0,	67.7,	-38.3,	-20.0,	18	9.1,	34.6,	62.9,	-32.3,	-20.4,
19	9.1,	44.9,	68.0,	-31.2,	-20.3,	20	9.1,	53.9,	70.9,	-29.2,	-19.5,
21	9.1,	61.3,	71.8,	-26.4,	-18.2,	22	9.1,	66.8,	70.4,	-22.7,	-16.2,
23	9.1,	70.2,	66.9,	-18.4,	-13.8,	24	9.1,	71.6,	61.4,	-13.4,	-11.0,
25	9.1,	70.7,	54.0,	-8.1,	-7.9,	26	9.1,	67.7,	45.0,	-2.5,	-4.5,
27	9.1,	62.9,	34.6,	3.1,	-0.8,	28	9.1,	68.0,	44.9,	-2.2,	2.7,
29	9.1,	70.9,	53.9,	-7.5,	6.2,	30	9.1,	71.8,	61.3,	-12.5,	9.5,
31	9.1,	70.4,	66.8,	-17.1,	12.5,	32	9.1,	66.9,	70.2,	-21.3,	15.1,
33	9.1,	61.4,	71.6,	-24.8,	17.3,	34	9.1,	54.0,	70.7,	-27.5,	18.9,
35	9.1,	45.0,	67.7,	-29.4,	20.0,	36	9.1,	34.6,	62.9,	-30.6,	20.4,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK9

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	145.4,	85.7,	-1.2,	-26.4,	2	9.1,	149.7,	105.7,	-7.3,	-18.7,
3	9.1,	149.6,	122.5,	-13.1,	-10.5,	4	9.1,	144.8,	135.6,	-18.6,	-2.0,
5	9.1,	135.7,	144.5,	-23.5,	6.6,	6	9.1,	122.4,	149.0,	-27.7,	15.0,
7	9.1,	105.4,	149.0,	-31.0,	22.9,	8	9.1,	85.3,	144.5,	-33.4,	30.2,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	85.7,	145.4,	-46.3,	41.7,
11	9.1,	105.7,	149.7,	-56.2,	45.6,	12	9.1,	122.5,	149.6,	-64.3,	48.1,
13	9.1,	135.6,	144.8,	-70.4,	49.2,	14	9.1,	144.5,	135.7,	-74.5,	48.8,
15	9.1,	149.0,	122.4,	-76.2,	46.9,	16	9.1,	149.0,	105.4,	-75.7,	43.5,
17	9.1,	144.5,	85.3,	-72.8,	38.9,	18	9.1,	136.6,	63.5,	-68.1,	33.2,
19	9.1,	145.4,	85.7,	-84.6,	26.4,	20	9.1,	149.7,	105.7,	-98.5,	18.7,
21	9.1,	149.6,	122.5,	-109.4,	10.5,	22	9.1,	144.8,	135.6,	-117.0,	2.0,
23	9.1,	135.7,	144.5,	-121.0,	-6.6,	24	9.1,	122.4,	149.0,	-121.4,	-15.0,
25	9.1,	105.4,	149.0,	-118.0,	-22.9,	26	9.1,	85.3,	144.5,	-111.1,	-30.2,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	85.7,	145.4,	-99.0,	-41.7,
29	9.1,	105.7,	149.7,	-93.6,	-45.6,	30	9.1,	122.5,	149.6,	-85.3,	-48.1,
31	9.1,	135.6,	144.8,	-74.4,	-49.2,	32	9.1,	144.5,	135.7,	-61.2,	-48.8,
33	9.1,	149.0,	122.4,	-46.2,	-46.9,	34	9.1,	149.0,	105.4,	-29.8,	-43.5,
35	9.1,	144.5,	85.3,	-12.5,	-38.9,	36	9.1,	136.6,	63.5,	4.6,	-33.2,

SOURCE ID: STCK10

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	145.4,	85.7,	-12.6,	29.9,	2	9.1,	149.7,	105.7,	-28.3,	34.7,
3	9.1,	149.6,	122.5,	-43.1,	38.5,	4	9.1,	144.8,	135.6,	-56.6,	41.0,
5	9.1,	135.7,	144.5,	-68.4,	42.4,	6	9.1,	122.4,	149.0,	-78.1,	42.4,
7	9.1,	105.4,	149.0,	-85.5,	41.2,	8	9.1,	85.3,	144.5,	-90.2,	38.7,
9	9.1,	63.5,	136.6,	-92.5,	34.8,	10	9.1,	85.7,	145.4,	-102.6,	30.2,
11	9.1,	105.7,	149.7,	-109.6,	24.5,	12	9.1,	122.5,	149.6,	-113.2,	18.1,
13	9.1,	135.6,	144.8,	-113.5,	11.1,	14	9.1,	144.5,	135.7,	-110.2,	3.8,
15	9.1,	149.0,	122.4,	-103.6,	-3.6,	16	9.1,	149.0,	105.4,	-93.9,	-11.0,
17	9.1,	144.5,	85.3,	-81.3,	-17.9,	18	9.1,	136.6,	63.5,	-66.6,	-24.2,
19	9.1,	145.4,	85.7,	-73.1,	-29.9,	20	9.1,	149.7,	105.7,	-77.4,	-34.7,
21	9.1,	149.6,	122.5,	-79.4,	-38.5,	22	9.1,	144.8,	135.6,	-78.9,	-41.0,
23	9.1,	135.7,	144.5,	-76.0,	-42.4,	24	9.1,	122.4,	149.0,	-70.9,	-42.4,
25	9.1,	105.4,	149.0,	-63.6,	-41.2,	26	9.1,	85.3,	144.5,	-54.3,	-38.7,
27	9.1,	63.5,	136.6,	-44.1,	-34.8,	28	9.1,	85.7,	145.4,	-42.8,	-30.2,
29	9.1,	105.7,	149.7,	-40.1,	-24.5,	30	9.1,	122.5,	149.6,	-36.3,	-18.1,
31	9.1,	135.6,	144.8,	-31.4,	-11.1,	32	9.1,	144.5,	135.7,	-25.5,	-3.8,
33	9.1,	149.0,	122.4,	-18.8,	3.6,	34	9.1,	149.0,	105.4,	-11.6,	11.0,
35	9.1,	144.5,	85.3,	-4.0,	17.9,	36	9.1,	136.6,	63.5,	3.1,	24.2,

SOURCE ID: STCK11

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	147.8,	86.1,	-0.5,	-27.9,	2	9.1,	151.9,	107.0,	-6.9,	-20.0,
3	9.1,	151.4,	124.8,	-13.0,	-11.4,	4	9.1,	146.2,	138.7,	-18.8,	-2.5,
5	9.1,	136.6,	148.4,	-24.0,	6.5,	6	9.1,	122.9,	153.6,	-28.4,	15.3,
7	9.1,	105.4,	154.1,	-32.0,	23.7,	8	9.1,	84.8,	150.0,	-34.7,	31.3,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	86.1,	147.8,	-46.0,	42.5,
11	9.1,	107.0,	151.9,	-56.0,	46.6,	12	9.1,	124.8,	151.4,	-64.3,	49.3,
13	9.1,	138.7,	146.2,	-70.6,	50.5,	14	9.1,	148.4,	136.6,	-74.8,	50.2,
15	9.1,	153.6,	122.9,	-76.8,	48.3,	16	9.1,	154.1,	105.4,	-76.4,	45.0,
17	9.1,	150.0,	84.8,	-73.6,	40.3,	18	9.1,	141.3,	63.2,	-68.7,	34.4,
19	9.1,	147.8,	86.1,	-85.5,	27.9,	20	9.1,	151.9,	107.0,	-100.1,	20.0,
21	9.1,	151.4,	124.8,	-111.7,	11.4,	22	9.1,	146.2,	138.7,	-119.9,	2.5,
23	9.1,	136.6,	148.4,	-124.4,	-6.5,	24	9.1,	122.9,	153.6,	-125.1,	-15.3,
25	9.1,	105.4,	154.1,	-122.1,	-23.7,	26	9.1,	84.8,	150.0,	-115.3,	-31.3,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	86.1,	147.8,	-101.9,	-42.5,
29	9.1,	107.0,	151.9,	-95.9,	-46.6,	30	9.1,	124.8,	151.4,	-87.1,	-49.3,
31	9.1,	138.7,	146.2,	-75.6,	-50.5,	32	9.1,	148.4,	136.6,	-61.8,	-50.2,
33	9.1,	153.6,	122.9,	-46.1,	-48.3,	34	9.1,	154.1,	105.4,	-29.1,	-45.0,
35	9.1,	150.0,	84.8,	-11.1,	-40.3,	36	9.1,	141.3,	63.2,	5.5,	-34.4,

SOURCE ID: STCK12

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	147.8,	86.1,	-12.8,	35.7,	2	9.1,	151.9,	107.0,	-30.1,	40.6,
3	9.1,	151.4,	124.8,	-46.4,	44.2,	4	9.1,	146.2,	138.7,	-61.3,	46.5,
5	9.1,	136.6,	148.4,	-74.3,	47.4,	6	9.1,	122.9,	153.6,	-85.1,	46.8,
7	9.1,	105.4,	154.1,	-93.3,	44.8,	8	9.1,	84.8,	150.0,	-98.7,	41.5,
9	9.1,	63.2,	141.3,	-101.1,	36.1,	10	9.1,	86.1,	147.8,	-109.6,	30.2,

11	9.1,	107.0,	151.9,	-116.5,	23.5,	12	9.1,	124.8,	151.4,	-119.9,	16.0,
13	9.1,	138.7,	146.2,	-119.6,	8.1,	14	9.1,	148.4,	136.6,	-115.7,	-0.1,
15	9.1,	153.6,	122.9,	-108.3,	-8.3,	16	9.1,	154.1,	105.4,	-97.6,	-16.3,
17	9.1,	150.0,	84.8,	-83.9,	-23.7,	18	9.1,	141.3,	63.2,	-67.6,	-30.4,
19	9.1,	147.8,	86.1,	-73.3,	-35.7,	20	9.1,	151.9,	107.0,	-77.0,	-40.6,
21	9.1,	151.4,	124.8,	-78.4,	-44.2,	22	9.1,	146.2,	138.7,	-77.4,	-46.5,
23	9.1,	136.6,	148.4,	-74.0,	-47.4,	24	9.1,	122.9,	153.6,	-68.5,	-46.8,
25	9.1,	105.4,	154.1,	-60.8,	-44.8,	26	9.1,	84.8,	150.0,	-51.3,	-41.5,
27	9.1,	63.2,	141.3,	-40.2,	-36.1,	28	9.1,	86.1,	147.8,	-38.2,	-30.2,
29	9.1,	107.0,	151.9,	-35.4,	-23.5,	30	9.1,	124.8,	151.4,	-31.5,	-16.0,
31	9.1,	138.7,	146.2,	-26.6,	-8.1,	32	9.1,	148.4,	136.6,	-20.9,	0.1,
33	9.1,	153.6,	122.9,	-14.6,	8.3,	34	9.1,	154.1,	105.4,	-7.9,	16.3,
35	9.1,	150.0,	84.8,	-0.9,	23.7,	36	9.1,	141.3,	63.2,	4.5,	30.4,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK13

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	86.3,	131.2,	-92.7,	-47.5,	2	9.1,	103.6,	136.9,	-87.0,	-51.6,
3	9.1,	117.9,	138.3,	-78.5,	-54.1,	4	9.1,	128.5,	135.6,	-67.7,	-55.0,
5	9.1,	135.3,	128.7,	-54.9,	-54.2,	6	9.1,	137.9,	118.0,	-40.3,	-51.8,
7	9.1,	136.4,	103.6,	-24.6,	-47.8,	8	9.1,	130.7,	86.1,	-8.1,	-42.3,
9	9.1,	121.9,	66.5,	8.7,	-35.0,	10	9.1,	131.2,	86.3,	4.4,	-27.1,
11	9.1,	136.9,	103.6,	-0.2,	-18.5,	12	9.1,	138.3,	117.9,	-4.8,	-9.4,
13	9.1,	135.6,	128.5,	-9.2,	0.1,	14	9.1,	128.7,	135.3,	-13.4,	9.5,
15	9.1,	118.0,	137.9,	-17.2,	18.7,	16	9.1,	103.6,	136.4,	-20.4,	27.2,
17	9.1,	86.1,	130.7,	-23.1,	35.0,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	86.3,	131.2,	-38.5,	47.5,	20	9.1,	103.6,	136.9,	-49.9,	51.6,
21	9.1,	117.9,	138.3,	-59.8,	54.1,	22	9.1,	128.5,	135.6,	-67.9,	55.0,
23	9.1,	135.3,	128.7,	-73.9,	54.2,	24	9.1,	137.9,	118.0,	-77.6,	51.8,
25	9.1,	136.4,	103.6,	-79.0,	47.8,	26	9.1,	130.7,	86.1,	-78.0,	42.3,
27	9.1,	121.9,	66.5,	-75.1,	35.0,	28	9.1,	131.2,	86.3,	-90.7,	27.1,
29	9.1,	136.9,	103.6,	-103.5,	18.5,	30	9.1,	138.3,	117.9,	-113.1,	9.4,
31	9.1,	135.6,	128.5,	-119.3,	-0.1,	32	9.1,	128.7,	135.3,	-121.9,	-9.5,
33	9.1,	118.0,	137.9,	-120.7,	-18.7,	34	9.1,	103.6,	136.4,	-115.9,	-27.2,
35	9.1,	86.1,	130.7,	-107.6,	-35.0,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK14

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	86.3,	131.2,	-29.3,	-34.6,	2	9.1,	103.6,	136.9,	-26.7,	-27.9,
3	9.1,	117.9,	138.3,	-23.4,	-20.3,	4	9.1,	128.5,	135.6,	-19.2,	-12.1,
5	9.1,	135.3,	128.7,	-14.6,	-3.6,	6	9.1,	137.9,	118.0,	-9.5,	5.1,
7	9.1,	136.4,	103.6,	-4.0,	13.6,	8	9.1,	130.7,	86.1,	1.5,	21.8,

9	9.1,	121.9,	66.5,	7.0,	29.7,	10	9.1,	131.2,	86.3,	-8.5,	36.3,
11	9.1,	136.9,	103.6,	-23.9,	41.7,	12	9.1,	138.3,	117.9,	-38.6,	45.8,
13	9.1,	135.6,	128.5,	-52.1,	48.5,	14	9.1,	128.7,	135.3,	-64.1,	49.8,
15	9.1,	118.0,	137.9,	-74.1,	49.5,	16	9.1,	103.6,	136.4,	-81.8,	47.8,
17	9.1,	86.1,	130.7,	-87.1,	44.5,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	86.3,	131.2,	-101.9,	34.6,	20	9.1,	103.6,	136.9,	-110.1,	27.9,
21	9.1,	117.9,	138.3,	-115.0,	20.3,	22	9.1,	128.5,	135.6,	-116.3,	12.1,
23	9.1,	135.3,	128.7,	-114.2,	3.6,	24	9.1,	137.9,	118.0,	-108.5,	-5.1,
25	9.1,	136.4,	103.6,	-99.6,	-13.6,	26	9.1,	130.7,	86.1,	-87.6,	-21.8,
27	9.1,	121.9,	66.5,	-73.5,	-29.7,	28	9.1,	131.2,	86.3,	-77.8,	-36.3,
29	9.1,	136.9,	103.6,	-79.7,	-41.7,	30	9.1,	138.3,	117.9,	-79.3,	-45.8,
31	9.1,	135.6,	128.5,	-76.4,	-48.5,	32	9.1,	128.7,	135.3,	-71.2,	-49.8,
33	9.1,	118.0,	137.9,	-63.8,	-49.5,	34	9.1,	103.6,	136.4,	-54.5,	-47.8,
35	9.1,	86.1,	130.7,	-43.6,	-44.5,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK15

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	144.3,	83.7,	-0.4,	-26.7,	2	9.1,	148.5,	104.0,	-6.6,	-19.1,
3	9.1,	148.2,	121.2,	-12.7,	-10.9,	4	9.1,	143.4,	134.7,	-18.4,	-2.4,
5	9.1,	134.3,	144.0,	-23.6,	6.1,	6	9.1,	121.1,	149.0,	-28.0,	14.5,
7	9.1,	104.2,	149.5,	-31.6,	22.4,	8	9.1,	84.1,	145.5,	-34.2,	29.7,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	83.7,	144.3,	-45.5,	41.5,
11	9.1,	104.0,	148.5,	-55.2,	45.4,	12	9.1,	121.2,	148.2,	-63.2,	47.9,
13	9.1,	134.7,	143.4,	-69.3,	48.9,	14	9.1,	144.0,	134.3,	-73.3,	48.5,
15	9.1,	149.0,	121.1,	-75.0,	46.5,	16	9.1,	149.5,	104.2,	-74.5,	43.2,
17	9.1,	145.5,	84.1,	-71.7,	38.6,	18	9.1,	137.0,	61.5,	-66.8,	32.8,
19	9.1,	144.3,	83.7,	-83.3,	26.7,	20	9.1,	148.5,	104.0,	-97.4,	19.1,
21	9.1,	148.2,	121.2,	-108.4,	10.9,	22	9.1,	143.4,	134.7,	-116.2,	2.4,
23	9.1,	134.3,	144.0,	-120.5,	-6.1,	24	9.1,	121.1,	149.0,	-121.1,	-14.5,
25	9.1,	104.2,	149.5,	-118.0,	-22.4,	26	9.1,	84.1,	145.5,	-111.3,	-29.7,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	83.7,	144.3,	-98.8,	-41.5,
29	9.1,	104.0,	148.5,	-93.3,	-45.4,	30	9.1,	121.2,	148.2,	-85.0,	-47.9,
31	9.1,	134.7,	143.4,	-74.2,	-48.9,	32	9.1,	144.0,	134.3,	-61.0,	-48.5,
33	9.1,	149.0,	121.1,	-46.1,	-46.5,	34	9.1,	149.5,	104.2,	-29.7,	-43.2,
35	9.1,	145.5,	84.1,	-12.4,	-38.6,	36	9.1,	137.0,	61.5,	5.3,	-32.8,

SOURCE ID: STCK16

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	144.3,	83.7,	-9.6,	35.7,	2	9.1,	148.5,	104.0,	-26.6,	40.7,
3	9.1,	148.2,	121.2,	-42.8,	44.5,	4	9.1,	143.4,	134.7,	-57.6,	46.9,
5	9.1,	134.3,	144.0,	-70.7,	47.9,	6	9.1,	121.1,	149.0,	-81.7,	47.5,
7	9.1,	104.2,	149.5,	-90.2,	45.6,	8	9.1,	84.1,	145.5,	-95.9,	42.3,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	83.7,	144.3,	-107.8,	32.2,
11	9.1,	104.0,	148.5,	-114.9,	25.4,	12	9.1,	121.2,	148.2,	-118.6,	17.8,
13	9.1,	134.7,	143.4,	-118.6,	9.7,	14	9.1,	144.0,	134.3,	-115.1,	1.3,
15	9.1,	149.0,	121.1,	-108.0,	-7.2,	16	9.1,	149.5,	104.2,	-97.6,	-15.4,
17	9.1,	145.5,	84.1,	-84.3,	-23.2,	18	9.1,	137.0,	61.5,	-68.5,	-30.2,
19	9.1,	144.3,	83.7,	-74.1,	-35.7,	20	9.1,	148.5,	104.0,	-77.4,	-40.7,
21	9.1,	148.2,	121.2,	-78.4,	-44.5,	22	9.1,	143.4,	134.7,	-77.0,	-46.9,

23	9.1,	134.3,	144.0,	-73.3,	-47.9,	24	9.1,	121.1,	149.0,	-67.3,	-47.5,
25	9.1,	104.2,	149.5,	-59.3,	-45.6,	26	9.1,	84.1,	145.5,	-49.5,	-42.3,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	83.7,	144.3,	-36.4,	-32.2,
29	9.1,	104.0,	148.5,	-33.5,	-25.4,	30	9.1,	121.2,	148.2,	-29.6,	-17.8,
31	9.1,	134.7,	143.4,	-24.8,	-9.7,	32	9.1,	144.0,	134.3,	-19.2,	-1.3,
33	9.1,	149.0,	121.1,	-13.1,	7.2,	34	9.1,	149.5,	104.2,	-6.5,	15.4,
35	9.1,	145.5,	84.1,	0.2,	23.2,	36	9.1,	137.0,	61.5,	7.0,	30.2,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK18

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	145.4,	85.4,	1.1,	-24.1,	2	9.1,	150.0,	105.4,	-5.4,	-16.2,
3	9.1,	150.0,	122.2,	-11.6,	-7.7,	4	9.1,	145.5,	135.3,	-17.5,	1.0,
5	9.1,	136.6,	144.3,	-22.9,	9.7,	6	9.1,	123.5,	148.9,	-27.6,	18.1,
7	9.1,	106.6,	149.0,	-31.4,	25.9,	8	9.1,	86.5,	144.5,	-34.3,	32.9,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	85.4,	145.4,	-48.6,	43.7,
11	9.1,	105.4,	150.0,	-58.8,	47.3,	12	9.1,	122.2,	150.0,	-67.3,	49.5,
13	9.1,	135.3,	145.5,	-73.8,	50.1,	14	9.1,	144.3,	136.6,	-78.0,	49.3,
15	9.1,	148.9,	123.5,	-79.8,	46.9,	16	9.1,	149.0,	106.6,	-79.2,	43.1,
17	9.1,	144.5,	86.5,	-76.2,	38.0,	18	9.1,	136.4,	63.8,	-70.9,	31.4,
19	9.1,	145.4,	85.4,	-86.4,	24.1,	20	9.1,	150.0,	105.4,	-100.0,	16.2,
21	9.1,	150.0,	122.2,	-110.6,	7.7,	22	9.1,	145.5,	135.3,	-117.8,	-1.0,
23	9.1,	136.6,	144.3,	-121.4,	-9.7,	24	9.1,	123.5,	148.9,	-121.3,	-18.1,
25	9.1,	106.6,	149.0,	-117.6,	-25.9,	26	9.1,	86.5,	144.5,	-110.2,	-32.9,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	85.4,	145.4,	-96.8,	-43.7,
29	9.1,	105.4,	150.0,	-91.1,	-47.3,	30	9.1,	122.2,	150.0,	-82.7,	-49.5,
31	9.1,	135.3,	145.5,	-71.7,	-50.1,	32	9.1,	144.3,	136.6,	-58.6,	-49.3,
33	9.1,	148.9,	123.5,	-43.7,	-46.9,	34	9.1,	149.0,	106.6,	-27.4,	-43.1,
35	9.1,	144.5,	86.5,	-10.4,	-38.0,	36	9.1,	136.4,	63.8,	7.0,	-31.4,

SOURCE ID: STCK19

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	145.4,	85.4,	-11.9,	39.3,	2	9.1,	150.0,	105.4,	-29.1,	44.1,
3	9.1,	150.0,	122.2,	-45.4,	47.5,	4	9.1,	145.5,	135.3,	-60.4,	49.5,
5	9.1,	136.6,	144.3,	-73.5,	50.0,	6	9.1,	123.5,	148.9,	-84.4,	48.9,
7	9.1,	106.6,	149.0,	-92.8,	46.4,	8	9.1,	86.5,	144.5,	-98.3,	42.5,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	85.4,	145.4,	-112.0,	30.8,
11	9.1,	105.4,	150.0,	-119.1,	23.6,	12	9.1,	122.2,	150.0,	-122.5,	15.7,
13	9.1,	135.3,	145.5,	-122.2,	7.2,	14	9.1,	144.3,	136.6,	-118.2,	-1.4,
15	9.1,	148.9,	123.5,	-110.7,	-10.0,	16	9.1,	149.0,	106.6,	-99.7,	-18.3,
17	9.1,	144.5,	86.5,	-85.7,	-26.0,	18	9.1,	136.4,	63.8,	-69.2,	-33.3,
19	9.1,	145.4,	85.4,	-73.5,	-39.3,	20	9.1,	150.0,	105.4,	-76.3,	-44.1,

21	9.1,	150.0,	122.2,	-76.8,	-47.5,	22	9.1,	145.5,	135.3,	-74.9,	-49.5,
23	9.1,	136.6,	144.3,	-70.7,	-50.0,	24	9.1,	123.5,	148.9,	-64.4,	-48.9,
25	9.1,	106.6,	149.0,	-56.2,	-46.4,	26	9.1,	86.5,	144.5,	-46.2,	-42.5,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	85.4,	145.4,	-33.4,	-30.8,
29	9.1,	105.4,	150.0,	-30.9,	-23.6,	30	9.1,	122.2,	150.0,	-27.5,	-15.7,
31	9.1,	135.3,	145.5,	-23.3,	-7.2,	32	9.1,	144.3,	136.6,	-18.3,	1.4,
33	9.1,	148.9,	123.5,	-12.8,	10.0,	34	9.1,	149.0,	106.6,	-6.9,	18.3,
35	9.1,	144.5,	86.5,	-0.8,	26.0,	36	9.1,	136.4,	63.8,	5.3,	33.3,

SOURCE ID: STCK20

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	147.0,	85.4,	-73.6,	-40.5,	2	9.1,	151.3,	106.0,	-76.3,	-45.1,
3	9.1,	150.9,	123.3,	-76.7,	-48.3,	4	9.1,	145.9,	137.0,	-74.8,	-50.1,
5	9.1,	136.6,	146.5,	-70.6,	-50.3,	6	9.1,	123.0,	151.5,	-64.2,	-49.0,
7	9.1,	105.8,	151.9,	-55.9,	-46.2,	8	9.1,	85.3,	147.7,	-45.9,	-42.1,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	85.4,	147.0,	-33.0,	-30.9,
11	9.1,	106.0,	151.3,	-30.5,	-23.4,	12	9.1,	123.3,	150.9,	-27.1,	-15.0,
13	9.1,	137.0,	145.9,	-22.9,	-6.3,	14	9.1,	146.5,	136.6,	-17.9,	2.7,
15	9.1,	151.5,	123.0,	-12.5,	11.5,	16	9.1,	151.9,	105.8,	-6.6,	20.1,
17	9.1,	147.7,	85.3,	-0.6,	28.0,	18	9.1,	139.0,	63.2,	5.5,	35.0,
19	9.1,	147.0,	85.4,	-11.8,	40.5,	20	9.1,	151.3,	106.0,	-29.6,	45.1,
21	9.1,	150.9,	123.3,	-46.6,	48.3,	22	9.1,	145.9,	137.0,	-62.2,	50.1,
23	9.1,	136.6,	146.5,	-75.9,	50.3,	24	9.1,	123.0,	151.5,	-87.3,	49.0,
25	9.1,	105.8,	151.9,	-96.0,	46.2,	26	9.1,	85.3,	147.7,	-101.8,	42.1,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	85.4,	147.0,	-114.0,	30.9,
29	9.1,	106.0,	151.3,	-120.7,	23.4,	30	9.1,	123.3,	150.9,	-123.8,	15.0,
31	9.1,	137.0,	145.9,	-123.1,	6.3,	32	9.1,	146.5,	136.6,	-118.6,	-2.7,
33	9.1,	151.5,	123.0,	-110.5,	-11.5,	34	9.1,	151.9,	105.8,	-99.1,	-20.1,
35	9.1,	147.7,	85.3,	-84.7,	-28.0,	36	9.1,	139.0,	63.2,	-68.7,	-35.0,

SOURCE ID: STCK21

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	147.0,	85.4,	-87.0,	30.6,	2	9.1,	151.3,	106.0,	-101.9,	22.6,
3	9.1,	150.9,	123.3,	-113.6,	13.9,	4	9.1,	145.9,	137.0,	-121.9,	4.8,
5	9.1,	136.6,	146.5,	-126.5,	-4.5,	6	9.1,	123.0,	151.5,	-127.3,	-13.6,
7	9.1,	105.8,	151.9,	-124.2,	-22.3,	8	9.1,	85.3,	147.7,	-117.3,	-30.3,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	85.4,	147.0,	-104.1,	-44.3,
11	9.1,	106.0,	151.3,	-98.2,	-48.9,	12	9.1,	123.3,	150.9,	-89.4,	-52.0,
13	9.1,	137.0,	145.9,	-77.8,	-53.4,	14	9.1,	146.5,	136.6,	-63.8,	-53.3,
15	9.1,	151.5,	123.0,	-47.9,	-51.6,	16	9.1,	151.9,	105.8,	-30.6,	-48.2,
17	9.1,	147.7,	85.3,	-12.3,	-43.5,	18	9.1,	139.0,	63.2,	6.3,	-37.3,
19	9.1,	147.0,	85.4,	1.7,	-30.6,	20	9.1,	151.3,	106.0,	-4.1,	-22.6,
21	9.1,	150.9,	123.3,	-9.7,	-13.9,	22	9.1,	145.9,	137.0,	-15.0,	-4.8,
23	9.1,	136.6,	146.5,	-19.9,	4.5,	24	9.1,	123.0,	151.5,	-24.2,	13.6,
25	9.1,	105.8,	151.9,	-27.7,	22.3,	26	9.1,	85.3,	147.7,	-30.4,	30.3,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	85.4,	147.0,	-42.9,	44.3,
29	9.1,	106.0,	151.3,	-53.0,	48.9,	30	9.1,	123.3,	150.9,	-61.5,	52.0,
31	9.1,	137.0,	145.9,	-68.2,	53.4,	32	9.1,	146.5,	136.6,	-72.7,	53.3,
33	9.1,	151.5,	123.0,	-75.1,	51.6,	34	9.1,	151.9,	105.8,	-75.2,	48.2,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK22

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	49.7,	70.3,	-44.7,	24.0,	2	9.1,	59.0,	73.7,	-50.3,	22.0,
3	9.1,	66.4,	74.8,	-54.4,	19.4,	4	9.1,	71.8,	73.8,	-56.9,	16.2,
5	9.1,	75.1,	70.4,	-57.6,	12.5,	6	9.1,	76.0,	64.9,	-56.6,	8.5,
7	9.1,	74.7,	57.5,	-53.8,	4.1,	8	9.1,	71.1,	48.3,	-49.4,	-0.3,
9	9.1,	65.6,	39.0,	-44.7,	-4.9,	10	9.1,	70.3,	49.8,	-48.8,	-9.5,
11	9.1,	73.7,	59.0,	-51.5,	-13.5,	12	9.1,	74.8,	66.4,	-52.6,	-17.0,
13	9.1,	73.8,	71.8,	-52.2,	-20.0,	14	9.1,	70.4,	75.1,	-50.1,	-22.4,
15	9.1,	64.9,	76.0,	-46.5,	-24.1,	16	9.1,	57.5,	74.7,	-41.5,	-25.1,
17	9.1,	48.3,	71.1,	-35.2,	-25.3,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	49.8,	70.3,	-25.6,	-24.0,	20	9.1,	59.0,	73.7,	-23.4,	-22.0,
21	9.1,	66.4,	74.8,	-20.4,	-19.4,	22	9.1,	71.8,	73.8,	-16.9,	-16.2,
23	9.1,	75.1,	70.4,	-12.8,	-12.5,	24	9.1,	76.0,	64.9,	-8.4,	-8.5,
25	9.1,	74.7,	57.5,	-3.6,	-4.1,	26	9.1,	71.1,	48.3,	1.2,	0.3,
27	9.1,	65.6,	39.0,	5.7,	4.9,	28	9.1,	70.3,	49.8,	-0.9,	9.5,
29	9.1,	73.7,	59.0,	-7.5,	13.5,	30	9.1,	74.8,	66.4,	-13.8,	17.0,
31	9.1,	73.8,	71.8,	-19.7,	20.0,	32	9.1,	70.4,	75.1,	-25.0,	22.4,
33	9.1,	64.9,	76.0,	-29.6,	24.1,	34	9.1,	57.5,	74.7,	-33.2,	25.1,
35	9.1,	48.3,	71.1,	-35.8,	25.3,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK23

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	44.6,	69.9,	-32.1,	-23.6,	2	9.1,	54.0,	72.6,	-29.5,	-22.7,
3	9.1,	61.8,	73.0,	-26.0,	-21.1,	4	9.1,	145.9,	137.0,	-131.2,	71.5,
5	9.1,	136.6,	146.5,	-147.2,	59.6,	6	9.1,	123.0,	151.5,	-158.8,	45.9,
7	9.1,	105.8,	151.9,	-165.6,	30.8,	8	9.1,	85.3,	147.7,	-167.3,	14.8,
9	9.1,	63.2,	139.0,	-163.9,	-2.2,	10	9.1,	85.4,	147.0,	-166.5,	-19.0,
11	9.1,	106.0,	151.3,	-164.1,	-34.8,	12	9.1,	123.3,	150.9,	-156.6,	-49.5,
13	9.1,	137.0,	145.9,	-144.5,	-62.7,	14	9.1,	146.5,	136.6,	-127.9,	-74.0,
15	9.1,	61.3,	73.1,	-23.6,	19.4,	16	9.1,	53.4,	72.5,	-27.0,	21.4,
17	9.1,	43.9,	69.7,	-29.5,	22.6,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	44.6,	69.9,	-37.8,	23.6,	20	9.1,	54.0,	72.6,	-43.1,	22.7,
21	9.1,	61.8,	73.0,	-47.0,	21.1,	22	9.1,	145.9,	137.0,	-5.8,	-71.5,
23	9.1,	136.6,	146.5,	0.8,	-59.6,	24	9.1,	123.0,	151.5,	7.3,	-45.9,
25	9.1,	105.8,	151.9,	13.7,	-30.8,	26	9.1,	69.7,	43.9,	-44.6,	5.3,
27	9.1,	65.2,	34.1,	-40.6,	1.2,	28	9.1,	69.9,	44.6,	-45.9,	-2.8,
29	9.1,	106.0,	151.3,	12.8,	34.8,	30	9.1,	123.3,	150.9,	5.8,	49.5,
31	9.1,	137.0,	145.9,	-1.5,	62.7,	32	9.1,	146.5,	136.6,	-8.7,	74.0,

33	9.1,	61.3,	73.1,	-49.4,	-19.4,	34	9.1,	53.4,	72.5,	-45.5,	-21.4,
35	9.1,	43.9,	69.7,	-40.2,	-22.6,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK24

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	92.2,	143.7,	-99.8,	-46.4,	2	9.1,	111.7,	148.7,	-93.6,	-50.5,
3	9.1,	127.9,	149.2,	-84.6,	-53.0,	4	9.1,	140.2,	145.2,	-73.0,	-53.9,
5	9.1,	148.2,	136.8,	-59.2,	-53.2,	6	9.1,	151.7,	124.2,	-43.6,	-50.9,
7	9.1,	150.6,	107.8,	-26.7,	-47.1,	8	9.1,	144.9,	88.2,	-9.0,	-41.8,
9	9.1,	135.1,	69.8,	6.0,	-35.3,	10	9.1,	143.7,	92.2,	0.3,	-27.9,
11	9.1,	148.7,	111.7,	-5.4,	-19.2,	12	9.1,	149.2,	127.9,	-10.9,	-10.0,
13	9.1,	145.2,	140.2,	-16.1,	-0.4,	14	9.1,	136.8,	148.2,	-20.8,	9.2,
15	9.1,	124.2,	151.7,	-24.9,	18.5,	16	9.1,	107.8,	150.6,	-28.2,	27.2,
17	9.1,	88.2,	144.9,	-30.7,	35.1,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	92.2,	143.7,	-43.9,	46.4,	20	9.1,	111.7,	148.7,	-55.1,	50.5,
21	9.1,	127.9,	149.2,	-64.6,	53.0,	22	9.1,	140.2,	145.2,	-72.2,	53.9,
23	9.1,	148.2,	136.8,	-77.6,	53.2,	24	9.1,	151.7,	124.2,	-80.6,	50.9,
25	9.1,	150.6,	107.8,	-81.1,	47.1,	26	9.1,	144.9,	88.2,	-79.2,	41.8,
27	9.1,	135.1,	69.8,	-75.8,	35.3,	28	9.1,	143.7,	92.2,	-92.5,	27.9,
29	9.1,	148.7,	111.7,	-106.3,	19.2,	30	9.1,	149.2,	127.9,	-117.0,	10.0,
31	9.1,	145.2,	140.2,	-124.0,	0.4,	32	9.1,	136.8,	148.2,	-127.3,	-9.2,
33	9.1,	124.2,	151.7,	-126.8,	-18.5,	34	9.1,	107.8,	150.6,	-122.4,	-27.2,
35	9.1,	88.2,	144.9,	-114.2,	-35.1,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK25

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	92.2,	143.7,	-28.4,	-34.6,	2	9.1,	111.7,	148.7,	-25.3,	-26.5,
3	9.1,	127.9,	149.2,	-21.5,	-17.6,	4	9.1,	140.2,	145.2,	-17.0,	-8.1,
5	9.1,	148.2,	136.8,	-12.0,	1.7,	6	9.1,	151.7,	124.2,	-6.7,	11.3,
7	9.1,	150.6,	107.8,	-1.1,	20.7,	8	9.1,	144.9,	88.2,	4.5,	29.4,
9	9.1,	135.1,	69.8,	6.8,	37.0,	10	9.1,	143.7,	92.2,	-11.5,	43.5,
11	9.1,	148.7,	111.7,	-29.4,	49.0,	12	9.1,	149.2,	127.9,	-46.4,	53.1,
13	9.1,	145.2,	140.2,	-62.0,	55.6,	14	9.1,	136.8,	148.2,	-75.7,	56.3,
15	9.1,	124.2,	151.7,	-87.2,	55.4,	16	9.1,	107.8,	150.6,	-96.0,	52.8,
17	9.1,	88.2,	144.9,	-101.8,	48.5,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	92.2,	143.7,	-115.3,	34.6,	20	9.1,	111.7,	148.7,	-123.4,	26.5,
21	9.1,	127.9,	149.2,	-127.7,	17.6,	22	9.1,	140.2,	145.2,	-128.2,	8.1,
23	9.1,	148.2,	136.8,	-124.7,	-1.7,	24	9.1,	151.7,	124.2,	-117.5,	-11.3,
25	9.1,	150.6,	107.8,	-106.7,	-20.7,	26	9.1,	144.9,	88.2,	-92.6,	-29.4,
27	9.1,	135.1,	69.8,	-76.6,	-37.0,	28	9.1,	143.7,	92.2,	-80.7,	-43.5,
29	9.1,	148.7,	111.7,	-82.4,	-49.0,	30	9.1,	149.2,	127.9,	-81.5,	-53.1,
31	9.1,	145.2,	140.2,	-78.2,	-55.6,	32	9.1,	136.8,	148.2,	-72.4,	-56.3,
33	9.1,	124.2,	151.7,	-64.5,	-55.4,	34	9.1,	107.8,	150.6,	-54.6,	-52.8,
35	9.1,	88.2,	144.9,	-43.1,	-48.5,	36	0.0,	0.0,	0.0,	0.0,	0.0,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK26

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	146.6,	97.9,	-1.7,	-20.8,	2	9.1,	153.0,	117.4,	-8.7,	-12.3,
3	9.1,	154.8,	133.4,	-15.4,	-3.5,	4	9.1,	151.8,	145.3,	-21.6,	5.5,
5	9.1,	144.3,	152.9,	-27.2,	14.2,	6	9.1,	132.4,	155.7,	-31.9,	22.6,
7	9.1,	116.4,	153.9,	-35.7,	30.2,	8	9.1,	96.9,	147.3,	-38.4,	36.9,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	97.9,	146.6,	-52.5,	47.2,
11	9.1,	117.4,	153.0,	-64.2,	50.0,	12	9.1,	133.4,	154.8,	-73.9,	51.3,
13	9.1,	145.3,	151.8,	-81.4,	51.1,	14	9.1,	152.9,	144.3,	-86.4,	49.3,
15	9.1,	155.7,	132.4,	-88.8,	45.9,	16	9.1,	153.9,	116.4,	-88.4,	41.2,
17	9.1,	147.3,	96.9,	-85.4,	35.3,	18	9.1,	136.3,	75.3,	-80.6,	28.3,
19	9.1,	146.6,	97.9,	-96.2,	20.8,	20	9.1,	153.0,	117.4,	-108.8,	12.3,
21	9.1,	154.8,	133.4,	-118.0,	3.5,	22	9.1,	151.8,	145.3,	-123.8,	-5.5,
23	9.1,	144.3,	152.9,	-125.7,	-14.2,	24	9.1,	132.4,	155.7,	-123.8,	-22.6,
25	9.1,	116.4,	153.9,	-118.2,	-30.2,	26	9.1,	96.9,	147.3,	-109.0,	-36.9,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	97.9,	146.6,	-94.0,	-47.2,
29	9.1,	117.4,	153.0,	-88.8,	-50.0,	30	9.1,	133.4,	154.8,	-80.9,	-51.3,
31	9.1,	145.3,	151.8,	-70.5,	-51.1,	32	9.1,	152.9,	144.3,	-57.9,	-49.3,
33	9.1,	155.7,	132.4,	-43.6,	-45.9,	34	9.1,	153.9,	116.4,	-28.0,	-41.2,
35	9.1,	147.3,	96.9,	-11.5,	-35.3,	36	9.1,	136.3,	75.3,	5.3,	-28.3,

SOURCE ID: STCK27

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	146.6,	97.9,	-10.3,	33.7,	2	9.1,	153.0,	117.4,	-26.6,	39.8,
3	9.1,	154.8,	133.4,	-42.0,	44.7,	4	9.1,	151.8,	145.3,	-56.2,	48.3,
5	9.1,	144.3,	152.9,	-68.7,	50.4,	6	9.1,	132.4,	155.7,	-79.1,	51.0,
7	9.1,	116.4,	153.9,	-87.1,	50.0,	8	9.1,	96.9,	147.3,	-92.5,	47.5,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	97.9,	146.6,	-107.0,	38.6,
11	9.1,	117.4,	153.0,	-116.3,	32.1,	12	9.1,	133.4,	154.8,	-122.1,	24.7,
13	9.1,	145.3,	151.8,	-124.2,	16.4,	14	9.1,	152.9,	144.3,	-122.6,	7.7,
15	9.1,	155.7,	132.4,	-117.2,	-1.3,	16	9.1,	153.9,	116.4,	-108.2,	-10.2,
17	9.1,	147.3,	96.9,	-96.0,	-18.8,	18	9.1,	136.3,	75.3,	-81.6,	-26.8,
19	9.1,	146.6,	97.9,	-87.6,	-33.7,	20	9.1,	153.0,	117.4,	-90.8,	-39.8,
21	9.1,	154.8,	133.4,	-91.4,	-44.7,	22	9.1,	151.8,	145.3,	-89.1,	-48.3,
23	9.1,	144.3,	152.9,	-84.1,	-50.4,	24	9.1,	132.4,	155.7,	-76.6,	-51.0,
25	9.1,	116.4,	153.9,	-66.7,	-50.0,	26	9.1,	96.9,	147.3,	-54.9,	-47.5,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	97.9,	146.6,	-39.6,	-38.6,
29	9.1,	117.4,	153.0,	-36.7,	-32.1,	30	9.1,	133.4,	154.8,	-32.6,	-24.7,
31	9.1,	145.3,	151.8,	-27.6,	-16.4,	32	9.1,	152.9,	144.3,	-21.7,	-7.7,
33	9.1,	155.7,	132.4,	-15.2,	1.3,	34	9.1,	153.9,	116.4,	-8.2,	10.2,
35	9.1,	147.3,	96.9,	-1.0,	18.8,	36	9.1,	136.3,	75.3,	6.3,	26.8,

SOURCE ID: STCK28

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ

1	9.1,	49.3,	82.2,	-36.8,	-22.8,	2	9.1,	60.6,	84.5,	-34.0,	-21.6,
3	9.1,	70.1,	84.2,	-30.3,	-19.8,	4	9.1,	151.8,	145.3,	-133.3,	77.8,
5	9.1,	144.3,	152.9,	-149.7,	66.1,	6	9.1,	132.4,	155.7,	-161.6,	52.3,
7	9.1,	116.4,	153.9,	-168.6,	37.0,	8	9.1,	96.9,	147.3,	-170.5,	20.6,
9	9.1,	75.3,	136.3,	-167.1,	3.9,	10	9.1,	97.9,	146.6,	-171.0,	-13.4,
11	9.1,	117.4,	153.0,	-170.4,	-30.2,	12	9.1,	133.4,	154.8,	-164.6,	-46.1,
13	9.1,	145.3,	151.8,	-153.7,	-60.6,	14	9.1,	152.9,	144.3,	-138.2,	-73.3,
15	9.1,	68.5,	84.9,	-31.3,	20.2,	16	9.1,	58.8,	84.8,	-35.0,	21.8,
17	9.1,	47.3,	82.1,	-37.6,	22.8,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	49.3,	82.2,	-45.4,	22.8,	20	9.1,	60.6,	84.5,	-50.4,	21.6,
21	9.1,	70.1,	84.2,	-53.9,	19.8,	22	9.1,	151.8,	145.3,	-12.0,	-77.8,
23	9.1,	144.3,	152.9,	-3.1,	-66.1,	24	9.1,	132.4,	155.7,	5.9,	-52.3,
25	9.1,	116.4,	153.9,	14.7,	-37.0,	26	9.1,	82.1,	47.3,	-46.4,	3.5,
27	9.1,	77.4,	36.5,	-41.5,	-0.3,	28	9.1,	82.2,	49.3,	-47.4,	-4.3,
29	9.1,	117.4,	153.0,	17.4,	30.2,	30	9.1,	133.4,	154.8,	9.8,	46.1,
31	9.1,	145.3,	151.8,	1.9,	60.6,	32	9.1,	152.9,	144.3,	-6.1,	73.3,
33	9.1,	68.5,	84.9,	-53.5,	-20.2,	34	9.1,	58.8,	84.8,	-49.8,	-21.8,
35	9.1,	47.3,	82.1,	-44.5,	-22.8,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK29

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	93.5,	159.3,	-108.7,	-51.0,	2	9.1,	115.9,	163.6,	-101.5,	-55.1,
3	9.1,	134.7,	163.0,	-91.3,	-57.6,	4	9.1,	149.5,	157.3,	-78.2,	-58.3,
5	9.1,	159.8,	146.9,	-62.9,	-57.3,	6	9.1,	165.2,	132.1,	-45.6,	-54.5,
7	9.1,	165.6,	113.2,	-26.9,	-50.1,	8	9.1,	160.9,	90.9,	-7.4,	-44.1,
9	9.1,	77.4,	36.5,	-80.2,	40.4,	10	9.1,	82.2,	49.3,	-92.7,	29.0,
11	9.1,	84.5,	60.6,	-102.4,	16.8,	12	9.1,	84.2,	70.1,	-109.0,	4.0,
13	9.1,	81.4,	77.4,	-112.3,	-8.9,	14	9.1,	76.1,	82.4,	-112.1,	-21.6,
15	9.1,	68.5,	84.9,	-108.6,	-33.5,	16	9.1,	113.2,	165.6,	-32.7,	29.7,
17	9.1,	90.9,	160.9,	-36.3,	38.1,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	93.5,	159.3,	-50.6,	51.0,	20	9.1,	115.9,	163.6,	-62.1,	55.1,
21	9.1,	134.7,	163.0,	-71.7,	57.6,	22	9.1,	149.5,	157.3,	-79.1,	58.3,
23	9.1,	159.8,	146.9,	-84.1,	57.3,	24	9.1,	165.2,	132.1,	-86.5,	54.5,
25	9.1,	165.6,	113.2,	-86.3,	50.1,	26	9.1,	160.9,	90.9,	-83.5,	44.1,
27	9.1,	151.4,	68.2,	-79.4,	36.8,	28	9.1,	159.3,	93.5,	-97.7,	29.0,
29	9.1,	163.6,	115.9,	-113.0,	19.7,	30	9.1,	163.0,	134.7,	-125.0,	9.8,
31	9.1,	157.3,	149.5,	-133.1,	-0.4,	32	9.1,	146.9,	159.8,	-137.2,	-10.6,
33	9.1,	132.1,	165.2,	-137.1,	-20.5,	34	9.1,	113.2,	165.6,	-132.9,	-29.7,
35	9.1,	90.9,	160.9,	-124.6,	-38.1,	36	0.0,	0.0,	0.0,	0.0,	0.0,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK30

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	93.5,	159.3,	-44.0,	-39.4,	2	9.1,	115.9,	163.6,	-39.9,	-32.5,
3	9.1,	134.7,	163.0,	-34.5,	-24.6,	4	9.1,	149.5,	157.3,	-28.1,	-16.0,
5	9.1,	159.8,	146.9,	-20.8,	-6.9,	6	9.1,	165.2,	132.1,	-12.9,	2.4,
7	9.1,	165.6,	113.2,	-4.6,	11.7,	8	9.1,	160.9,	90.9,	3.8,	20.6,
9	9.1,	151.4,	68.2,	11.0,	28.8,	10	9.1,	159.3,	93.5,	-7.3,	35.6,
11	9.1,	163.6,	115.9,	-25.4,	41.9,	12	9.1,	163.0,	134.7,	-42.8,	47.0,
13	9.1,	157.3,	149.5,	-58.8,	50.6,	14	9.1,	146.9,	159.8,	-73.0,	52.7,
15	9.1,	132.1,	165.2,	-85.0,	53.1,	16	9.1,	113.2,	165.6,	-94.5,	52.0,
17	9.1,	90.9,	160.9,	-101.0,	49.3,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	93.5,	159.3,	-115.3,	39.4,	20	9.1,	115.9,	163.6,	-123.7,	32.5,
21	9.1,	134.7,	163.0,	-128.5,	24.6,	22	9.1,	149.5,	157.3,	-129.2,	16.0,
23	9.1,	159.8,	146.9,	-126.1,	6.9,	24	9.1,	165.2,	132.1,	-119.2,	-2.4,
25	9.1,	165.6,	113.2,	-108.6,	-11.7,	26	9.1,	160.9,	90.9,	-94.7,	-20.6,
27	9.1,	151.4,	68.2,	-79.2,	-28.8,	28	9.1,	159.3,	93.5,	-86.1,	-35.6,
29	9.1,	163.6,	115.9,	-90.4,	-41.9,	30	9.1,	163.0,	134.7,	-92.0,	-47.0,
31	9.1,	157.3,	149.5,	-90.8,	-50.6,	32	9.1,	146.9,	159.8,	-86.8,	-52.7,
33	9.1,	132.1,	165.2,	-80.1,	-53.1,	34	9.1,	113.2,	165.6,	-71.1,	-52.0,
35	9.1,	90.9,	160.9,	-59.9,	-49.3,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK31

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	49.2,	81.9,	-43.7,	-25.6,	2	9.1,	60.6,	84.2,	-40.4,	-25.6,
3	9.1,	153.9,	131.1,	-120.9,	79.1,	4	9.1,	150.5,	143.5,	-140.0,	68.2,
5	9.1,	142.5,	151.6,	-154.9,	55.2,	6	9.1,	130.2,	155.1,	-165.0,	40.5,
7	9.1,	113.9,	153.8,	-170.2,	24.6,	8	9.1,	94.2,	147.9,	-170.2,	8.0,
9	9.1,	72.4,	137.5,	-165.0,	-8.5,	10	9.1,	94.8,	146.8,	-166.8,	-24.9,
11	9.1,	114.7,	152.7,	-163.9,	-40.7,	12	9.1,	131.1,	153.9,	-156.1,	-55.3,
13	9.1,	143.5,	150.5,	-143.4,	-68.2,	14	9.1,	151.6,	142.5,	-126.5,	-79.1,
15	9.1,	68.3,	85.4,	-24.2,	17.6,	16	9.1,	58.6,	85.5,	-27.6,	20.5,
17	9.1,	47.2,	82.9,	-30.2,	22.8,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	49.2,	81.9,	-38.2,	25.6,	20	9.1,	60.6,	84.2,	-43.8,	25.6,
21	9.1,	153.9,	131.1,	-10.2,	-79.1,	22	9.1,	150.5,	143.5,	-3.5,	-68.2,
23	9.1,	142.5,	151.6,	3.3,	-55.2,	24	9.1,	130.2,	155.1,	10.0,	-40.5,
25	9.1,	113.9,	153.8,	16.4,	-24.6,	26	9.1,	82.9,	47.2,	-46.4,	11.3,
27	9.1,	77.8,	36.2,	-42.8,	7.1,	28	9.1,	81.9,	49.2,	-50.1,	2.7,
29	9.1,	114.7,	152.7,	11.3,	40.7,	30	9.1,	131.1,	153.9,	2.1,	55.3,
31	9.1,	143.5,	150.5,	-7.1,	68.2,	32	9.1,	151.6,	142.5,	-16.1,	79.1,
33	9.1,	68.3,	85.4,	-61.2,	-17.6,	34	9.1,	58.6,	85.5,	-57.8,	-20.5,
35	9.1,	47.2,	82.9,	-52.7,	-22.8,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK32

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	146.8,	94.8,	-86.2,	-36.4,	2	9.1,	152.7,	114.7,	-89.2,	-42.8,
3	9.1,	153.9,	131.1,	-89.5,	-47.8,	4	9.1,	150.5,	143.5,	-87.1,	-51.3,
5	9.1,	142.5,	151.6,	-82.0,	-53.3,	6	9.1,	130.2,	155.1,	-74.5,	-53.7,
7	9.1,	113.9,	153.8,	-64.6,	-52.4,	8	9.1,	94.2,	147.9,	-52.9,	-49.6,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	94.8,	146.8,	-36.9,	-38.8,
11	9.1,	114.7,	152.7,	-33.6,	-31.9,	12	9.1,	131.1,	153.9,	-29.2,	-24.0,

13	9.1,	143.5,	150.5,	-23.9,	-15.4,	14	9.1,	151.6,	142.5,	-18.0,	-6.2,
15	9.1,	155.1,	130.2,	-11.4,	3.1,	16	9.1,	153.8,	113.9,	-4.5,	12.3,
17	9.1,	147.9,	94.2,	2.5,	21.1,	18	9.1,	137.5,	72.4,	8.6,	29.3,
19	9.1,	146.8,	94.8,	-8.5,	36.4,	20	9.1,	152.7,	114.7,	-25.4,	42.8,
21	9.1,	153.9,	131.1,	-41.6,	47.8,	22	9.1,	150.5,	143.5,	-56.4,	51.3,
23	9.1,	142.5,	151.6,	-69.6,	53.3,	24	9.1,	130.2,	155.1,	-80.6,	53.7,
25	9.1,	113.9,	153.8,	-89.2,	52.4,	26	9.1,	94.2,	147.9,	-95.0,	49.6,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	94.8,	146.8,	-109.8,	38.8,
29	9.1,	114.7,	152.7,	-119.1,	31.9,	30	9.1,	131.1,	153.9,	-124.7,	24.0,
31	9.1,	143.5,	150.5,	-126.6,	15.4,	32	9.1,	151.6,	142.5,	-124.6,	6.2,
33	9.1,	155.1,	130.2,	-118.8,	-3.1,	34	9.1,	153.8,	113.9,	-109.4,	-12.3,
35	9.1,	147.9,	94.2,	-96.7,	-21.1,	36	9.1,	137.5,	72.4,	-81.0,	-29.3,

SOURCE ID: STCK33

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	146.8,	94.8,	-97.7,	32.1,	2	9.1,	152.7,	114.7,	-112.4,	22.8,
3	9.1,	153.9,	131.1,	-123.8,	12.8,	4	9.1,	150.5,	143.5,	-131.3,	2.3,
5	9.1,	142.5,	151.6,	-134.9,	-8.1,	6	9.1,	130.2,	155.1,	-134.4,	-18.4,
7	9.1,	113.9,	153.8,	-129.8,	-28.1,	8	9.1,	94.2,	147.9,	-121.2,	-36.9,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	94.8,	146.8,	-105.5,	-50.3,
11	9.1,	114.7,	152.7,	-99.1,	-55.1,	12	9.1,	131.1,	153.9,	-89.7,	-58.2,
13	9.1,	143.5,	150.5,	-77.6,	-59.6,	14	9.1,	151.6,	142.5,	-63.1,	-59.1,
15	9.1,	155.1,	130.2,	-46.7,	-56.8,	16	9.1,	153.8,	113.9,	-28.9,	-52.9,
17	9.1,	147.9,	94.2,	-10.2,	-47.3,	18	9.1,	137.5,	72.4,	8.0,	-40.2,
19	9.1,	146.8,	94.8,	2.9,	-32.1,	20	9.1,	152.7,	114.7,	-2.2,	-22.8,
21	9.1,	153.9,	131.1,	-7.3,	-12.8,	22	9.1,	150.5,	143.5,	-12.2,	-2.3,
23	9.1,	142.5,	151.6,	-16.7,	8.1,	24	9.1,	130.2,	155.1,	-20.7,	18.4,
25	9.1,	113.9,	153.8,	-24.1,	28.1,	26	9.1,	94.2,	147.9,	-26.7,	36.9,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	94.8,	146.8,	-41.2,	50.3,
29	9.1,	114.7,	152.7,	-53.5,	55.1,	30	9.1,	131.1,	153.9,	-64.2,	58.2,
31	9.1,	143.5,	150.5,	-72.9,	59.6,	32	9.1,	151.6,	142.5,	-79.4,	59.1,
33	9.1,	155.1,	130.2,	-83.5,	56.8,	34	9.1,	153.8,	113.9,	-85.0,	52.9,
35	9.1,	147.9,	94.2,	-84.0,	47.3,	36	9.1,	137.5,	72.4,	-80.4,	40.2,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK34

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	47.7,	51.1,	-54.0,	-7.5,	2	9.1,	53.4,	55.7,	-54.7,	-12.2,
3	9.1,	57.4,	58.6,	-53.7,	-16.7,	4	9.1,	83.6,	79.5,	-108.7,	37.4,
5	9.1,	80.2,	83.1,	-116.0,	24.8,	6	9.1,	74.3,	84.1,	-119.6,	11.5,
7	9.1,	66.1,	82.6,	-119.7,	-2.1,	8	9.1,	56.0,	78.6,	-116.1,	-15.7,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	51.1,	47.7,	-16.4,	-28.5,

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  11    9.1,   55.7,   53.4,  -14.5,  -26.9,     12    9.1,   58.6,   57.4,  -12.1,  -24.4,
  13    9.1,   59.7,   59.7,   -9.3,  -21.2,     14    9.1,   59.0,   60.2,   -6.3,  -17.4,
  15    9.1,   68.3,   85.4, -107.3,   35.0,     16    9.1,   58.6,   85.5, -112.4,   23.2,
  17    9.1,   47.2,   82.9, -114.1,   10.7,     18    9.1,   36.2,   77.8, -112.4,   -1.8,
  19    9.1,   49.2,   81.9, -113.0,  -14.5,     20    9.1,   60.6,   84.2, -110.5,  -26.8,
  21    9.1,   70.2,   84.0, -104.6,  -38.3,     22    9.1,   59.7,   59.7,   -8.6,   20.6,
  23    9.1,   60.2,   59.0,  -12.1,   23.8,     24    9.1,   58.9,   56.5,  -15.2,   26.4,
  25    9.1,   55.7,   52.3,  -17.9,   28.1,     26    9.1,   50.9,   46.5,  -20.0,   29.0,
  27    0.0,    0.0,    0.0,    0.0,    0.0,     28    9.1,   51.1,   47.7,  -31.4,   28.5,
  29    9.1,   55.7,   53.4,  -39.0,   26.9,     30    9.1,   58.6,   57.4,  -45.4,   24.4,
  31    9.1,   59.7,   59.7,  -50.4,   21.2,     32    9.1,   59.0,   60.2,  -53.9,   17.4,
  33    9.1,   56.5,   58.9,  -55.8,   13.0,     34    9.1,   52.3,   55.7,  -56.0,    8.3,
  35    9.1,   46.5,   50.9,  -54.5,    3.3,     36    9.1,   40.6,   44.9,  -51.7,   -2.5,


*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 2yr                          ***        05/22/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 2 yr                               ***        10:45:00
                                                                                                               PAGE 159
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                    *** GRIDDED RECEPTOR NETWORK SUMMARY ***

                                 *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART ***

                                         *** X-COORDINATES OF GRID ***
                                                 (METERS)

     541890.5,  542097.6,  542304.7,  542511.8,  542718.9,  542926.0,  543133.1,  543340.2,  543547.3,  543754.4,
     543961.5,  544168.6,  544375.7,  544582.8,  544789.9,  544997.0,  545204.1,  545411.2,  545618.3,  545825.4,
     546032.5,

                                         *** Y-COORDINATES OF GRID ***
                                                 (METERS)

    3753173.3, 3753374.4, 3753575.4, 3753776.4, 3753977.5, 3754178.5, 3754379.5, 3754580.6, 3754781.6, 3754982.6,
    3755183.6, 3755384.7, 3755585.7, 3755786.7, 3755987.8, 3756188.8, 3756389.8, 3756590.9, 3756791.9, 3756992.9,
    3757193.9,

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 2yr                          ***        05/22/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 2 yr                               ***        10:45:00
                                                                                                               PAGE 160
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                 *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART ***

                                        * ELEVATION HEIGHTS IN METERS *

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     541890.52    542097.62    542304.72    542511.82    542718.92    542926.02    543133.12    543340.22    543547.32
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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3757193.95	346.00	341.60	338.70	336.40	334.60	332.50	329.70	327.90	324.10
3756992.92	341.40	337.70	334.80	332.10	330.40	329.00	325.70	323.90	321.10
3756791.89	337.40	333.80	330.80	327.80	325.80	323.90	322.00	319.50	317.30
3756590.86	332.50	329.40	326.70	324.10	321.50	319.80	316.90	315.40	313.90
3756389.83	328.10	325.30	322.30	319.70	317.30	315.70	312.80	311.70	310.70
3756188.80	323.50	320.70	317.80	315.30	313.50	311.80	309.40	307.30	306.40
3755987.77	319.10	316.20	313.70	311.10	309.20	307.00	305.50	303.50	302.30
3755786.74	314.70	311.60	309.80	307.70	305.70	303.40	301.60	300.30	298.60
3755585.71	310.10	307.60	306.10	303.80	301.70	299.50	297.60	296.70	294.40
3755384.68	305.70	303.00	301.50	299.70	297.40	295.20	294.00	293.00	291.10
3755183.65	301.00	298.40	296.90	295.50	293.30	290.70	289.70	289.00	287.40
3754982.62	296.00	294.10	292.50	291.20	289.20	286.80	286.40	284.90	283.50
3754781.59	291.10	289.50	287.90	286.40	284.80	283.00	281.60	280.60	279.80
3754580.56	286.20	284.80	283.50	281.90	280.30	278.80	277.60	276.70	275.50
3754379.53	281.10	279.80	278.90	277.30	275.90	274.40	273.80	272.80	271.60
3754178.50	276.10	275.30	274.20	272.70	271.50	270.00	269.60	269.20	267.70
3753977.47	270.90	270.20	269.20	268.10	267.00	265.70	265.30	264.80	263.80
3753776.44	265.90	265.30	264.80	263.80	262.40	261.40	261.10	260.70	260.10
3753575.41	261.20	260.80	260.50	259.70	258.70	256.90	257.30	257.00	256.70
3753374.38	257.20	256.20	256.10	255.60	254.70	253.50	253.30	253.10	252.80
3753173.35	252.00	251.20	251.30	250.90	250.20	249.50	249.60	249.50	248.90

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 543754.42	543961.52	544168.62	544375.72	544582.82	544789.92	544997.02	545204.12	545411.22
3757193.95	323.90	320.00	318.60	317.60	314.80	311.80	311.80	309.60	307.50
3756992.92	318.70	317.20	315.00	313.60	312.30	308.30	307.20	305.30	303.90
3756791.89	314.80	313.50	311.10	309.60	308.20	306.50	304.20	302.40	300.50
3756590.86	310.80	309.80	307.50	305.20	304.20	302.60	300.50	299.30	297.20
3756389.83	307.90	306.00	304.40	302.00	301.20	298.90	297.30	295.50	293.80
3756188.80	304.20	302.50	300.10	299.40	298.10	295.10	294.00	291.60	290.40
3755987.77	300.60	299.10	297.10	295.10	293.60	291.90	290.40	288.70	287.00
3755786.74	296.60	295.00	293.30	291.50	290.50	289.00	287.00	285.60	283.80
3755585.71	292.70	291.00	289.80	288.20	287.40	286.00	284.10	282.10	280.40
3755384.68	288.50	287.00	286.30	285.20	283.80	282.60	281.10	278.90	277.00
3755183.65	285.40	283.50	282.70	282.00	281.00	279.20	277.50	276.00	273.60
3754982.62	281.20	279.90	279.10	278.20	276.90	275.30	273.60	272.80	270.80
3754781.59	277.70	276.30	275.60	274.40	273.30	272.20	270.80	269.30	268.20
3754580.56	273.90	272.90	272.20	270.90	269.80	268.90	268.10	266.60	265.00
3754379.53	270.30	268.90	269.00	267.40	266.20	265.20	264.80	263.20	261.80
3754178.50	266.70	265.60	264.90	263.90	262.60	261.70	261.30	260.60	258.70

3753977.47	263.10	261.90	261.20	260.40	259.40	258.70	258.30	257.50	256.50
3753776.44	258.80	257.20	258.10	257.20	256.20	255.40	254.90	254.20	253.10
3753575.41	255.40	255.00	254.70	253.90	252.70	251.50	251.10	250.80	249.80
3753374.38	252.40	251.00	251.50	250.60	249.40	248.50	247.90	247.10	246.50
3753173.35	248.70	247.70	247.50	247.20	246.20	244.90	244.90	243.20	243.20

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	545618.32	545825.42	546032.52
3757193.95	305.20	303.50	302.40
3756992.92	301.80	299.30	297.30
3756791.89	299.30	295.70	293.00
3756590.86	295.30	292.70	289.80
3756389.83	292.00	289.30	286.90
3756188.80	288.70	286.00	283.80
3755987.77	285.30	283.00	280.30
3755786.74	281.80	280.10	277.70
3755585.71	279.00	277.10	275.20
3755384.68	275.70	274.00	272.10
3755183.65	272.50	270.70	269.20
3754982.62	269.30	267.80	265.80
3754781.59	266.30	264.80	262.90
3754580.56	263.50	262.10	260.40
3754379.53	260.90	259.40	258.00
3754178.50	258.30	256.90	256.20
3753977.47	255.80	254.20	252.60
3753776.44	252.50	251.20	249.60
3753575.41	249.30	248.00	246.70
3753374.38	246.00	244.70	243.60
3753173.35	242.90	241.60	240.50

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD | X-COORD (METERS)

(METERS)	541890.52	542097.62	542304.72	542511.82	542718.92	542926.02	543133.12	543340.22	543547.32
3757193.95	346.00	341.60	338.70	336.40	334.60	332.50	329.70	327.90	324.10
3756992.92	341.40	337.70	334.80	332.10	330.40	329.00	325.70	323.90	321.10
3756791.89	337.40	333.80	330.80	327.80	325.80	323.90	322.00	319.50	317.30
3756590.86	332.50	329.40	326.70	324.10	321.50	319.80	316.90	315.40	313.90
3756389.83	328.10	325.30	322.30	319.70	317.30	315.70	312.80	311.70	310.70
3756188.80	323.50	320.70	317.80	315.30	313.50	311.80	309.40	307.30	306.40
3755987.77	319.10	316.20	313.70	311.10	309.20	307.00	305.50	303.50	302.30
3755786.74	314.70	311.60	309.80	307.70	305.70	303.40	301.60	300.30	298.60
3755585.71	310.10	307.60	306.10	303.80	301.70	299.50	297.60	296.70	294.40
3755384.68	305.70	303.00	301.50	299.70	297.40	295.20	294.00	293.00	291.10
3755183.65	301.00	298.40	296.90	295.50	293.30	290.70	289.70	289.00	287.40
3754982.62	296.00	294.10	292.50	291.20	289.20	286.80	286.40	284.90	283.50
3754781.59	291.10	289.50	287.90	286.40	284.80	283.00	281.60	280.60	279.80
3754580.56	286.20	284.80	283.50	281.90	280.30	278.80	277.60	276.70	275.50
3754379.53	281.10	279.80	278.90	277.30	275.90	274.40	273.80	272.80	271.60
3754178.50	276.10	275.30	274.20	272.70	271.50	270.00	269.60	269.20	267.70
3753977.47	270.90	270.20	269.20	268.10	267.00	265.70	265.30	264.80	263.80
3753776.44	265.90	265.30	264.80	263.80	262.40	261.40	261.10	260.70	260.10
3753575.41	261.20	260.80	260.50	259.70	258.70	256.90	257.30	257.00	256.70
3753374.38	257.20	256.20	256.10	255.60	254.70	253.50	253.30	253.10	252.80
3753173.35	252.00	251.20	251.30	250.90	250.20	249.50	249.60	249.50	248.90

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 543754.42	543961.52	544168.62	544375.72	544582.82	544789.92	544997.02	545204.12	545411.22
3757193.95	323.90	320.00	318.60	317.60	314.80	311.80	311.80	309.60	307.50
3756992.92	318.70	317.20	315.00	313.60	312.30	308.30	307.20	305.30	303.90
3756791.89	314.80	313.50	311.10	309.60	308.20	306.50	304.20	302.40	300.50
3756590.86	310.80	309.80	307.50	305.20	304.20	302.60	300.50	299.30	297.20
3756389.83	307.90	306.00	304.40	302.00	301.20	298.90	297.30	295.50	293.80
3756188.80	304.20	302.50	300.10	299.40	298.10	295.10	294.00	291.60	290.40
3755987.77	300.60	299.10	297.10	295.10	293.60	291.90	290.40	288.70	287.00
3755786.74	296.60	295.00	293.30	291.50	290.50	289.00	287.00	285.60	283.80
3755585.71	292.70	291.00	289.80	288.20	287.40	286.00	284.10	282.10	280.40
3755384.68	288.50	287.00	286.30	285.20	283.80	282.60	281.10	278.90	277.00
3755183.65	285.40	283.50	282.70	282.00	281.00	279.20	277.50	276.00	273.60
3754982.62	281.20	279.90	279.10	278.20	276.90	275.30	273.60	272.80	270.80
3754781.59	277.70	276.30	275.60	274.40	273.30	272.20	270.80	269.30	268.20

3754580.56	273.90	272.90	272.20	270.90	269.80	268.90	268.10	266.60	265.00
3754379.53	270.30	268.90	269.00	267.40	266.20	265.20	264.80	263.20	261.80
3754178.50	266.70	265.60	264.90	263.90	262.60	261.70	261.30	260.60	258.70
3753977.47	263.10	261.90	261.20	260.40	259.40	258.70	258.30	257.50	256.50
3753776.44	258.80	257.20	258.10	257.20	256.20	255.40	254.90	254.20	253.10
3753575.41	255.40	255.00	254.70	253.90	252.70	251.50	251.10	250.80	249.80
3753374.38	252.40	251.00	251.50	250.60	249.40	248.50	247.90	247.10	246.50
3753173.35	248.70	247.70	247.50	247.20	246.20	244.90	244.90	243.20	243.20

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	545618.32	545825.42	546032.52
3757193.95	305.20	303.50	302.40
3756992.92	301.80	299.30	297.30
3756791.89	299.30	295.70	293.00
3756590.86	295.30	292.70	289.80
3756389.83	292.00	289.30	286.90
3756188.80	288.70	286.00	283.80
3755987.77	285.30	283.00	280.30
3755786.74	281.80	280.10	277.70
3755585.71	279.00	277.10	275.20
3755384.68	275.70	274.00	272.10
3755183.65	272.50	270.70	269.20
3754982.62	269.30	267.80	265.80
3754781.59	266.30	264.80	262.90
3754580.56	263.50	262.10	260.40
3754379.53	260.90	259.40	258.00
3754178.50	258.30	256.90	256.20
3753977.47	255.80	254.20	252.60
3753776.44	252.50	251.20	249.60
3753575.41	249.30	248.00	246.70
3753374.38	246.00	244.70	243.60
3753173.35	242.90	241.60	240.50

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)

(METERS)

```
    ( 544500.6, 3754666.1,     271.7,     271.7,       0.0);        ( 544584.3, 3754650.7,     271.0,     271.0,       0.0);
    ( 544743.7, 3754712.4,     271.3,     271.3,       0.0);        ( 544823.4, 3754797.3,     272.3,     272.3,       0.0);
    ( 543275.5, 3754553.0,     276.5,     276.5,       0.0);        ( 542202.5, 3753909.1,     268.2,     268.2,       0.0);
    ( 542020.5, 3753897.7,     268.8,     268.8,       0.0);        ( 542046.1, 3753764.4,     265.1,     265.1,       0.0);
    ( 544597.4, 3754047.3,     260.5,     260.5,       0.0);        ( 545870.8, 3753922.6,     253.0,     253.0,       0.0);
    ( 543677.7, 3756399.9,     308.6,     308.6,       0.0);        ( 544963.5, 3756388.6,     297.5,     297.5,       0.0);
    ( 545339.0, 3756356.7,     294.1,     294.1,       0.0);
```


* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
L0038846	543961.5	3755183.6	-0.49
L0038847	543961.5	3755183.6	-1.50

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54,   3.09,   5.14,   8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

  Surface file: ..\DesertHotSpringsAirportADJU\KTRM_V9_ADJU\KTRM_v9.SFC   Met Version: 16216
  Profile file: ..\..\..\..\..\Dropbox\Kunzman\Projects\6627 DHS 109\HRA\KTRM_V9_ADJU\KTRM_v9.PF
  Surface format: FREE
  Profile format: FREE
  Surface station no.:   3104   Upper air station no.:   3190
                Name: UNKNOWN   Name: UNKNOWN
                Year: 2012   Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-7.8	0.118	-9.000	-9.000	-999.	98.	19.4	0.08	1.91	1.00	1.59	77.	10.1	278.8	2.0
12	01	01	1	02	-15.8	0.171	-9.000	-9.000	-999.	169.	32.1	0.08	1.91	1.00	2.23	288.	10.1	277.5	2.0
12	01	01	1	03	-16.9	0.177	-9.000	-9.000	-999.	178.	34.3	0.08	1.91	1.00	2.30	325.	10.1	278.8	2.0
12	01	01	1	04	-3.0	0.076	-9.000	-9.000	-999.	56.	13.4	0.08	1.91	1.00	0.94	321.	10.1	275.4	2.0
12	01	01	1	05	-4.7	0.092	-9.000	-9.000	-999.	67.	15.0	0.08	1.91	1.00	1.23	342.	10.1	274.2	2.0
12	01	01	1	06	-10.7	0.139	-9.000	-9.000	-999.	124.	22.8	0.08	1.91	1.00	1.84	309.	10.1	274.9	2.0
12	01	01	1	07	-18.8	0.186	-9.000	-9.000	-999.	193.	38.2	0.08	1.91	1.00	2.42	338.	10.1	277.0	2.0
12	01	01	1	08	-11.5	0.179	-9.000	-9.000	-999.	182.	45.7	0.08	1.91	0.49	2.30	343.	10.1	282.5	2.0
12	01	01	1	09	44.9	0.190	0.372	0.007	42.	198.	-13.9	0.08	1.91	0.30	1.86	334.	10.1	288.8	2.0
12	01	01	1	10	109.3	0.237	0.720	0.006	125.	278.	-11.2	0.08	1.91	0.23	2.27	333.	10.1	293.8	2.0
12	01	01	1	11	153.1	0.246	1.122	0.005	338.	293.	-8.9	0.08	1.91	0.21	2.28	348.	10.1	297.0	2.0
12	01	01	1	12	173.2	0.204	1.424	0.005	612.	222.	-4.5	0.08	1.91	0.20	1.72	322.	10.1	298.8	2.0
12	01	01	1	13	169.9	0.156	1.670	0.005	1005.	148.	-2.0	0.08	1.91	0.20	1.14	351.	10.1	300.4	2.0
12	01	01	1	14	142.4	0.144	1.714	0.005	1296.	131.	-1.9	0.08	1.91	0.22	1.04	329.	10.1	300.9	2.0
12	01	01	1	15	92.8	0.142	1.542	0.005	1447.	129.	-2.8	0.08	1.91	0.25	1.11	316.	10.1	301.4	2.0
12	01	01	1	16	24.5	0.122	0.995	0.005	1469.	102.	-6.8	0.08	1.91	0.35	1.09	301.	10.1	300.4	2.0
12	01	01	1	17	-3.0	0.077	-9.000	-9.000	-999.	51.	13.7	0.08	1.91	0.65	0.99	209.	10.1	292.0	2.0
12	01	01	1	18	-11.9	0.149	-9.000	-9.000	-999.	138.	25.2	0.08	1.91	1.00	1.96	149.	10.1	286.4	2.0
12	01	01	1	19	-6.4	0.107	-9.000	-9.000	-999.	85.	17.7	0.08	1.91	1.00	1.45	31.	10.1	284.9	2.0
12	01	01	1	20	-15.7	0.171	-9.000	-9.000	-999.	169.	32.1	0.08	1.91	1.00	2.23	327.	10.1	283.1	2.0
12	01	01	1	21	-8.3	0.122	-9.000	-9.000	-999.	103.	20.2	0.08	1.91	1.00	1.64	347.	10.1	282.0	2.0
12	01	01	1	22	-7.9	0.119	-9.000	-9.000	-999.	99.	19.6	0.08	1.91	1.00	1.60	316.	10.1	279.2	2.0
12	01	01	1	23	-5.3	0.097	-9.000	-9.000	-999.	73.	15.9	0.08	1.91	1.00	1.31	325.	10.1	278.1	2.0
12	01	01	1	24	-9.4	0.130	-9.000	-9.000	-999.	113.	21.5	0.08	1.91	1.00	1.74	304.	10.1	278.8	2.0

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	10.1	1	77.	1.59	278.8	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                          *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL   ***
                              INCLUDING SOURCE(S):   L0037236   , L0037237   , L0037238   , L0037239   , L0037240   ,
               L0037241   , L0037242   , L0037243   , L0037244   , L0037245   , L0037246   , L0037247   , L0037248   ,
               L0037249   , L0037250   , L0037251   , L0037252   , L0037253   , L0037254   , L0037255   , L0037256   ,
               L0037257   , L0037258   , L0037259   , L0037260   , L0037261   , L0037262   , L0037263   , . . .   ,

                               *** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART ***

                                    ** CONC OF DPM   IN MICROGRAMS/M**3   **

Y-COORD (METERS)	X-COORD (METERS)								
	541890.52	542097.62	542304.72	542511.82	542718.92	542926.02	543133.12	543340.22	543547.32
3757193.95	0.00008	0.00009	0.00010	0.00012	0.00013	0.00014	0.00015	0.00016	0.00022
3756992.92	0.00008	0.00009	0.00011	0.00013	0.00015	0.00017	0.00019	0.00020	0.00027
3756791.89	0.00008	0.00010	0.00012	0.00014	0.00017	0.00020	0.00023	0.00026	0.00033
3756590.86	0.00008	0.00010	0.00012	0.00015	0.00018	0.00023	0.00028	0.00033	0.00042
3756389.83	0.00009	0.00010	0.00013	0.00016	0.00020	0.00025	0.00033	0.00041	0.00055
3756188.80	0.00009	0.00011	0.00013	0.00017	0.00021	0.00028	0.00037	0.00051	0.00072
3755987.77	0.00009	0.00011	0.00013	0.00017	0.00022	0.00029	0.00041	0.00061	0.00096
3755786.74	0.00009	0.00011	0.00014	0.00017	0.00022	0.00030	0.00043	0.00067	0.00126
3755585.71	0.00009	0.00011	0.00014	0.00017	0.00023	0.00031	0.00044	0.00070	0.00146
3755384.68	0.00010	0.00012	0.00014	0.00018	0.00023	0.00032	0.00045	0.00072	0.00146
3755183.65	0.00011	0.00013	0.00015	0.00019	0.00025	0.00034	0.00047	0.00072	0.00142
3754982.62	0.00012	0.00014	0.00017	0.00020	0.00026	0.00035	0.00047	0.00071	0.00134
3754781.59	0.00013	0.00015	0.00018	0.00022	0.00028	0.00035	0.00047	0.00069	0.00125
3754580.56	0.00015	0.00017	0.00020	0.00024	0.00029	0.00035	0.00046	0.00065	0.00117
3754379.53	0.00017	0.00020	0.00023	0.00026	0.00030	0.00036	0.00045	0.00061	0.00110
3754178.50	0.00021	0.00025	0.00029	0.00033	0.00037	0.00042	0.00049	0.00062	0.00107
3753977.47	0.00028	0.00080	0.00086	0.00089	0.00093	0.00098	0.00104	0.00115	0.00144
3753776.44	0.00031	0.00087	0.00057	0.00058	0.00060	0.00064	0.00068	0.00076	0.00090
3753575.41	0.00031	0.00082	0.00037	0.00036	0.00037	0.00040	0.00044	0.00050	0.00059
3753374.38	0.00029	0.00078	0.00032	0.00028	0.00029	0.00031	0.00035	0.00039	0.00046
3753173.35	0.00022	0.00069	0.00028	0.00024	0.00025	0.00026	0.00029	0.00033	0.00039

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                          *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL   ***
                              INCLUDING SOURCE(S):   L0037236   , L0037237   , L0037238   , L0037239   , L0037240   ,
               L0037241   , L0037242   , L0037243   , L0037244   , L0037245   , L0037246   , L0037247   , L0037248   ,
               L0037249   , L0037250   , L0037251   , L0037252   , L0037253   , L0037254   , L0037255   , L0037256   ,
               L0037257   , L0037258   , L0037259   , L0037260   , L0037261   , L0037262   , L0037263   , . . .   ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	543754.42	543961.52	544168.62	544375.72	544582.82	544789.92	544997.02	545204.12	545411.22
3757193.95	0.00028	0.00016	0.00014	0.00013	0.00012	0.00012	0.00011	0.00010	0.00009
3756992.92	0.00044	0.00021	0.00018	0.00016	0.00015	0.00014	0.00013	0.00012	0.00011
3756791.89	0.00053	0.00028	0.00024	0.00021	0.00019	0.00018	0.00017	0.00015	0.00014
3756590.86	0.00065	0.00039	0.00033	0.00030	0.00027	0.00025	0.00023	0.00021	0.00020
3756389.83	0.00122	0.00097	0.00093	0.00091	0.00091	0.00093	0.00095	0.00086	0.00079
3756188.80	0.00123	0.00077	0.00066	0.00057	0.00050	0.00045	0.00040	0.00037	0.00034
3755987.77	0.00157	0.00110	0.00093	0.00076	0.00061	0.00049	0.00041	0.00036	0.00032
3755786.74	0.00238	0.00209	0.00182	0.00128	0.00088	0.00065	0.00051	0.00041	0.00035
3755585.71	0.00594	0.00663	0.00630	0.00350	0.00145	0.00091	0.00064	0.00049	0.00039
3755384.68	0.00391	0.01304	0.01057	0.01616	0.00250	0.00130	0.00081	0.00057	0.00044
3755183.65	0.00340	0.02622	0.01420	0.02059	0.00427	0.00183	0.00102	0.00067	0.00049
3754982.62	0.00295	0.00452	0.01657	0.02241	0.00541	0.00235	0.00124	0.00078	0.00056
3754781.59	0.00259	0.00303	0.00941	0.02280	0.00540	0.00263	0.00144	0.00090	0.00063
3754580.56	0.00230	0.00215	0.00402	0.00594	0.00457	0.00261	0.00157	0.00102	0.00071
3754379.53	0.00210	0.00166	0.00239	0.00321	0.00317	0.00231	0.00159	0.00110	0.00079
3754178.50	0.00198	0.00141	0.00170	0.00210	0.00222	0.00195	0.00154	0.00117	0.00089
3753977.47	0.00219	0.00165	0.00179	0.00202	0.00215	0.00209	0.00189	0.00164	0.00142
3753776.44	0.00119	0.00117	0.00127	0.00140	0.00149	0.00149	0.00139	0.00123	0.00106
3753575.41	0.00073	0.00084	0.00093	0.00102	0.00109	0.00111	0.00107	0.00097	0.00085
3753374.38	0.00056	0.00065	0.00074	0.00081	0.00086	0.00089	0.00088	0.00082	0.00074
3753173.35	0.00045	0.00053	0.00060	0.00066	0.00071	0.00074	0.00074	0.00071	0.00066

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0037236 , L0037237 , L0037238 , L0037239 , L0037240 ,
L0037241 , L0037242 , L0037243 , L0037244 , L0037245 , L0037246 , L0037247 , L0037248 ,
L0037249 , L0037250 , L0037251 , L0037252 , L0037253 , L0037254 , L0037255 , L0037256 ,
L0037257 , L0037258 , L0037259 , L0037260 , L0037261 , L0037262 , L0037263 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	545618.32	545825.42	546032.52
3757193.95	0.00009	0.00008	0.00007

```
 3756992.92 |       0.00010      0.00010      0.00009
 3756791.89 |       0.00013      0.00012      0.00011
 3756590.86 |       0.00019      0.00017      0.00015
 3756389.83 |       0.00072      0.00076      0.00077
 3756188.80 |       0.00032      0.00029      0.00026
 3755987.77 |       0.00028      0.00026      0.00022
 3755786.74 |       0.00030      0.00026      0.00022
 3755585.71 |       0.00032      0.00027      0.00023
 3755384.68 |       0.00035      0.00029      0.00024
 3755183.65 |       0.00038      0.00031      0.00026
 3754982.62 |       0.00042      0.00034      0.00028
 3754781.59 |       0.00047      0.00037      0.00030
 3754580.56 |       0.00053      0.00041      0.00033
 3754379.53 |       0.00060      0.00046      0.00036
 3754178.50 |       0.00069      0.00054      0.00041
 3753977.47 |       0.00125      0.00111      0.00081
 3753776.44 |       0.00090      0.00077      0.00063
 3753575.41 |       0.00073      0.00062      0.00052
 3753374.38 |       0.00065      0.00056      0.00048
 3753173.35 |       0.00059      0.00052      0.00045

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 2yr                          ***        05/22/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 2 yr                               ***        10:45:00
                                                                                                               PAGE 173
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                          *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                              INCLUDING SOURCE(S):     L0037236    , L0037237    , L0037238    , L0037239    , L0037240    ,
               L0037241    , L0037242    , L0037243    , L0037244    , L0037245    , L0037246    , L0037247    , L0037248    ,
               L0037249    , L0037250    , L0037251    , L0037252    , L0037253    , L0037254    , L0037255    , L0037256    ,
               L0037257    , L0037258    , L0037259    , L0037260    , L0037261    , L0037262    , L0037263    ,  . . .      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                    ** CONC OF DPM      IN MICROGRAMS/M**3                        **

      X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)   Y-COORD (M)        CONC
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        544500.58    3754666.10       0.00660                     544584.26    3754650.71       0.00493
        544743.72    3754712.43       0.00308                     544823.38    3754797.27       0.00236
        543275.51    3754552.99       0.00057                     542202.53    3753909.06       0.00249
        542020.54    3753897.71       0.00163                     542046.12    3753764.40       0.00344
        544597.39    3754047.31       0.00196                     545870.84    3753922.64       0.00259
        543677.72    3756399.86       0.00186                     544963.53    3756388.62       0.00101
        545339.03    3756356.66       0.00134

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 2yr                          ***        05/22/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 2 yr                               ***        10:45:00
                                                                                                               PAGE 174
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.02622 AT (543961.52, 3755183.65, 283.50, 283.50, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.02280 AT (544375.72, 3754781.59, 274.40, 274.40, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.02241 AT (544375.72, 3754982.62, 278.20, 278.20, 0.00)	GC	UCART1
	4TH HIGHEST VALUE IS	0.02059 AT (544375.72, 3755183.65, 282.00, 282.00, 0.00)	GC	UCART1
	5TH HIGHEST VALUE IS	0.01657 AT (544168.62, 3754982.62, 279.10, 279.10, 0.00)	GC	UCART1
	6TH HIGHEST VALUE IS	0.01616 AT (544375.72, 3755384.68, 285.20, 285.20, 0.00)	GC	UCART1
	7TH HIGHEST VALUE IS	0.01420 AT (544168.62, 3755183.65, 282.70, 282.70, 0.00)	GC	UCART1
	8TH HIGHEST VALUE IS	0.01304 AT (543961.52, 3755384.68, 287.00, 287.00, 0.00)	GC	UCART1
	9TH HIGHEST VALUE IS	0.01057 AT (544168.62, 3755384.68, 286.30, 286.30, 0.00)	GC	UCART1
	10TH HIGHEST VALUE IS	0.00941 AT (544168.62, 3754781.59, 275.60, 275.60, 0.00)	GC	UCART1

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 36 Warning Message(s)
A Total of 1124 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 595 Calm Hours Identified

A Total of 529 Missing Hours Identified (1.21 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********

```
SO W320    4337        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    4338        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    4339        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    4340        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5953        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5954        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5955        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5956        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5957        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5958        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5959        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5960        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5961        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5962        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5963        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5964        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5965        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5966        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5967        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5968        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5969        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5970        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5971        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5972        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5973        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5974        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5975        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5976        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5977        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5978        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5979        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5980        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5981        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
ME W340    9231       PRBASE: Possible Error in PROFBASE Input:  Value is < 0        PROFBASE
ME W186    9232       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used           0.50
ME W187    9232       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ************************************
   *** AERMOD Finishes Successfully ***
   ************************************
```

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.6.5
** Lakes Environmental Software Inc.
** Date: 5/24/2019
** File: C:\Users\Catherine Howe\Desktop\DHS\Higher Cultivation\HRA\6627b DHS 109 - 1st 14 yrs\6627b DHS 109 - 1st 14 yrs.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Lakes\AERMOD View\6627 DHS 109 - 1st 14 yr
   TITLETWO DHS 109 DPM Concentrations - 1st 14 yr
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 2189641 Riverside_County
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "6627b DHS 109 - 1st 14 yrs.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC 15th Ave Eastern Project Driveway to Little Morongo
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000263
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 8
** 544362.703, 3755555.251, 288.03, 0.00, 1.70
** 543931.522, 3755552.148, 290.67, 0.00, 1.70
** 543892.903, 3755554.099, 290.96, 0.00, 1.70
```

```
** 543862.439, 3755566.497, 291.23, 0.00, 1.70
** 543816.035, 3755601.212, 292.60, 0.00, 1.70
** 543777.753, 3755620.310, 293.07, 0.00, 1.70
** 543741.619, 3755630.849, 293.68, 0.00, 1.70
** 543688.020, 3755631.150, 294.01, 0.00, 1.70
** ------------------------------------------------------------------
   LOCATION L0046098     VOLUME   544360.874 3755555.238 288.07
   LOCATION L0046099     VOLUME   544357.217 3755555.212 288.10
   LOCATION L0046100     VOLUME   544353.559 3755555.185 288.14
   LOCATION L0046101     VOLUME   544349.902 3755555.159 288.17
   LOCATION L0046102     VOLUME   544346.244 3755555.133 288.21
   LOCATION L0046103     VOLUME   544342.587 3755555.107 288.23
   LOCATION L0046104     VOLUME   544338.929 3755555.080 288.25
   LOCATION L0046105     VOLUME   544335.272 3755555.054 288.27
   LOCATION L0046106     VOLUME   544331.614 3755555.028 288.29
   LOCATION L0046107     VOLUME   544327.957 3755555.001 288.31
   LOCATION L0046108     VOLUME   544324.299 3755554.975 288.33
   LOCATION L0046109     VOLUME   544320.642 3755554.949 288.35
   LOCATION L0046110     VOLUME   544316.984 3755554.922 288.38
   LOCATION L0046111     VOLUME   544313.327 3755554.896 288.41
   LOCATION L0046112     VOLUME   544309.669 3755554.870 288.44
   LOCATION L0046113     VOLUME   544306.012 3755554.843 288.47
   LOCATION L0046114     VOLUME   544302.354 3755554.817 288.50
   LOCATION L0046115     VOLUME   544298.697 3755554.791 288.52
   LOCATION L0046116     VOLUME   544295.039 3755554.764 288.55
   LOCATION L0046117     VOLUME   544291.382 3755554.738 288.57
   LOCATION L0046118     VOLUME   544287.724 3755554.712 288.60
   LOCATION L0046119     VOLUME   544284.067 3755554.685 288.62
   LOCATION L0046120     VOLUME   544280.409 3755554.659 288.64
   LOCATION L0046121     VOLUME   544276.752 3755554.633 288.66
   LOCATION L0046122     VOLUME   544273.094 3755554.606 288.68
   LOCATION L0046123     VOLUME   544269.437 3755554.580 288.70
   LOCATION L0046124     VOLUME   544265.779 3755554.554 288.73
   LOCATION L0046125     VOLUME   544262.122 3755554.527 288.75
   LOCATION L0046126     VOLUME   544258.464 3755554.501 288.77
   LOCATION L0046127     VOLUME   544254.807 3755554.475 288.79
   LOCATION L0046128     VOLUME   544251.149 3755554.449 288.81
   LOCATION L0046129     VOLUME   544247.492 3755554.422 288.84
   LOCATION L0046130     VOLUME   544243.834 3755554.396 288.86
   LOCATION L0046131     VOLUME   544240.177 3755554.370 288.88
   LOCATION L0046132     VOLUME   544236.519 3755554.343 288.90
   LOCATION L0046133     VOLUME   544232.862 3755554.317 288.92
   LOCATION L0046134     VOLUME   544229.204 3755554.291 288.95
   LOCATION L0046135     VOLUME   544225.547 3755554.264 288.97
   LOCATION L0046136     VOLUME   544221.889 3755554.238 288.99
   LOCATION L0046137     VOLUME   544218.232 3755554.212 289.01
   LOCATION L0046138     VOLUME   544214.574 3755554.185 289.03
   LOCATION L0046139     VOLUME   544210.917 3755554.159 289.05
   LOCATION L0046140     VOLUME   544207.259 3755554.133 289.07
   LOCATION L0046141     VOLUME   544203.602 3755554.106 289.09
   LOCATION L0046142     VOLUME   544199.944 3755554.080 289.11
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LOCATION L0046143     VOLUME   544196.287 3755554.054 289.13
LOCATION L0046144     VOLUME   544192.629 3755554.027 289.15
LOCATION L0046145     VOLUME   544188.972 3755554.001 289.17
LOCATION L0046146     VOLUME   544185.314 3755553.975 289.20
LOCATION L0046147     VOLUME   544181.656 3755553.948 289.22
LOCATION L0046148     VOLUME   544177.999 3755553.922 289.24
LOCATION L0046149     VOLUME   544174.341 3755553.896 289.26
LOCATION L0046150     VOLUME   544170.684 3755553.869 289.29
LOCATION L0046151     VOLUME   544167.026 3755553.843 289.31
LOCATION L0046152     VOLUME   544163.369 3755553.817 289.33
LOCATION L0046153     VOLUME   544159.711 3755553.791 289.35
LOCATION L0046154     VOLUME   544156.054 3755553.764 289.37
LOCATION L0046155     VOLUME   544152.396 3755553.738 289.39
LOCATION L0046156     VOLUME   544148.739 3755553.712 289.41
LOCATION L0046157     VOLUME   544145.081 3755553.685 289.43
LOCATION L0046158     VOLUME   544141.424 3755553.659 289.45
LOCATION L0046159     VOLUME   544137.766 3755553.633 289.47
LOCATION L0046160     VOLUME   544134.109 3755553.606 289.48
LOCATION L0046161     VOLUME   544130.451 3755553.580 289.49
LOCATION L0046162     VOLUME   544126.794 3755553.554 289.51
LOCATION L0046163     VOLUME   544123.136 3755553.527 289.52
LOCATION L0046164     VOLUME   544119.479 3755553.501 289.54
LOCATION L0046165     VOLUME   544115.821 3755553.475 289.55
LOCATION L0046166     VOLUME   544112.164 3755553.448 289.57
LOCATION L0046167     VOLUME   544108.506 3755553.422 289.58
LOCATION L0046168     VOLUME   544104.849 3755553.396 289.60
LOCATION L0046169     VOLUME   544101.191 3755553.369 289.62
LOCATION L0046170     VOLUME   544097.534 3755553.343 289.63
LOCATION L0046171     VOLUME   544093.876 3755553.317 289.65
LOCATION L0046172     VOLUME   544090.219 3755553.290 289.66
LOCATION L0046173     VOLUME   544086.561 3755553.264 289.68
LOCATION L0046174     VOLUME   544082.904 3755553.238 289.71
LOCATION L0046175     VOLUME   544079.246 3755553.211 289.73
LOCATION L0046176     VOLUME   544075.589 3755553.185 289.75
LOCATION L0046177     VOLUME   544071.931 3755553.159 289.77
LOCATION L0046178     VOLUME   544068.274 3755553.132 289.80
LOCATION L0046179     VOLUME   544064.616 3755553.106 289.82
LOCATION L0046180     VOLUME   544060.959 3755553.080 289.84
LOCATION L0046181     VOLUME   544057.301 3755553.054 289.85
LOCATION L0046182     VOLUME   544053.644 3755553.027 289.87
LOCATION L0046183     VOLUME   544049.986 3755553.001 289.88
LOCATION L0046184     VOLUME   544046.329 3755552.975 289.90
LOCATION L0046185     VOLUME   544042.671 3755552.948 289.91
LOCATION L0046186     VOLUME   544039.014 3755552.922 289.93
LOCATION L0046187     VOLUME   544035.356 3755552.896 289.95
LOCATION L0046188     VOLUME   544031.699 3755552.869 289.98
LOCATION L0046189     VOLUME   544028.041 3755552.843 290.00
LOCATION L0046190     VOLUME   544024.384 3755552.817 290.03
LOCATION L0046191     VOLUME   544020.726 3755552.790 290.05
LOCATION L0046192     VOLUME   544017.069 3755552.764 290.08
LOCATION L0046193     VOLUME   544013.411 3755552.738 290.10
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LOCATION L0046194     VOLUME   544009.754 3755552.711 290.12
LOCATION L0046195     VOLUME   544006.096 3755552.685 290.15
LOCATION L0046196     VOLUME   544002.439 3755552.659 290.17
LOCATION L0046197     VOLUME   543998.781 3755552.632 290.19
LOCATION L0046198     VOLUME   543995.124 3755552.606 290.21
LOCATION L0046199     VOLUME   543991.466 3755552.580 290.24
LOCATION L0046200     VOLUME   543987.809 3755552.553 290.26
LOCATION L0046201     VOLUME   543984.151 3755552.527 290.27
LOCATION L0046202     VOLUME   543980.494 3755552.501 290.29
LOCATION L0046203     VOLUME   543976.836 3755552.474 290.30
LOCATION L0046204     VOLUME   543973.179 3755552.448 290.31
LOCATION L0046205     VOLUME   543969.521 3755552.422 290.32
LOCATION L0046206     VOLUME   543965.864 3755552.396 290.33
LOCATION L0046207     VOLUME   543962.206 3755552.369 290.34
LOCATION L0046208     VOLUME   543958.549 3755552.343 290.37
LOCATION L0046209     VOLUME   543954.891 3755552.317 290.40
LOCATION L0046210     VOLUME   543951.234 3755552.290 290.43
LOCATION L0046211     VOLUME   543947.576 3755552.264 290.47
LOCATION L0046212     VOLUME   543943.919 3755552.238 290.50
LOCATION L0046213     VOLUME   543940.261 3755552.211 290.53
LOCATION L0046214     VOLUME   543936.604 3755552.185 290.56
LOCATION L0046215     VOLUME   543932.946 3755552.159 290.59
LOCATION L0046216     VOLUME   543929.291 3755552.261 290.61
LOCATION L0046217     VOLUME   543925.638 3755552.446 290.64
LOCATION L0046218     VOLUME   543921.986 3755552.630 290.67
LOCATION L0046219     VOLUME   543918.333 3755552.815 290.69
LOCATION L0046220     VOLUME   543914.680 3755552.999 290.72
LOCATION L0046221     VOLUME   543911.027 3755553.184 290.74
LOCATION L0046222     VOLUME   543907.374 3755553.368 290.77
LOCATION L0046223     VOLUME   543903.721 3755553.553 290.80
LOCATION L0046224     VOLUME   543900.068 3755553.737 290.83
LOCATION L0046225     VOLUME   543896.415 3755553.922 290.86
LOCATION L0046226     VOLUME   543892.772 3755554.152 290.89
LOCATION L0046227     VOLUME   543889.384 3755555.531 290.94
LOCATION L0046228     VOLUME   543885.997 3755556.910 290.99
LOCATION L0046229     VOLUME   543882.609 3755558.289 291.04
LOCATION L0046230     VOLUME   543879.221 3755559.667 291.09
LOCATION L0046231     VOLUME   543875.833 3755561.046 291.15
LOCATION L0046232     VOLUME   543872.446 3755562.425 291.21
LOCATION L0046233     VOLUME   543869.058 3755563.804 291.27
LOCATION L0046234     VOLUME   543865.670 3755565.182 291.33
LOCATION L0046235     VOLUME   543862.303 3755566.599 291.39
LOCATION L0046236     VOLUME   543859.375 3755568.790 291.46
LOCATION L0046237     VOLUME   543856.446 3755570.981 291.54
LOCATION L0046238     VOLUME   543853.517 3755573.172 291.61
LOCATION L0046239     VOLUME   543850.588 3755575.363 291.68
LOCATION L0046240     VOLUME   543847.660 3755577.554 291.75
LOCATION L0046241     VOLUME   543844.731 3755579.745 291.83
LOCATION L0046242     VOLUME   543841.802 3755581.936 291.90
LOCATION L0046243     VOLUME   543838.873 3755584.127 291.97
LOCATION L0046244     VOLUME   543835.945 3755586.318 292.05
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   LOCATION L0046245     VOLUME   543833.016 3755588.509 292.12
   LOCATION L0046246     VOLUME   543830.087 3755590.700 292.18
   LOCATION L0046247     VOLUME   543827.158 3755592.891 292.25
   LOCATION L0046248     VOLUME   543824.230 3755595.082 292.31
   LOCATION L0046249     VOLUME   543821.301 3755597.273 292.37
   LOCATION L0046250     VOLUME   543818.372 3755599.464 292.43
   LOCATION L0046251     VOLUME   543815.374 3755601.542 292.49
   LOCATION L0046252     VOLUME   543812.101 3755603.175 292.54
   LOCATION L0046253     VOLUME   543808.828 3755604.807 292.59
   LOCATION L0046254     VOLUME   543805.555 3755606.440 292.65
   LOCATION L0046255     VOLUME   543802.282 3755608.073 292.70
   LOCATION L0046256     VOLUME   543799.009 3755609.706 292.75
   LOCATION L0046257     VOLUME   543795.736 3755611.339 292.81
   LOCATION L0046258     VOLUME   543792.463 3755612.971 292.86
   LOCATION L0046259     VOLUME   543789.190 3755614.604 292.92
   LOCATION L0046260     VOLUME   543785.917 3755616.237 292.97
   LOCATION L0046261     VOLUME   543782.645 3755617.870 293.02
   LOCATION L0046262     VOLUME   543779.372 3755619.503 293.08
   LOCATION L0046263     VOLUME   543775.978 3755620.828 293.14
   LOCATION L0046264     VOLUME   543772.467 3755621.852 293.20
   LOCATION L0046265     VOLUME   543768.956 3755622.876 293.25
   LOCATION L0046266     VOLUME   543765.444 3755623.900 293.31
   LOCATION L0046267     VOLUME   543761.933 3755624.924 293.36
   LOCATION L0046268     VOLUME   543758.422 3755625.948 293.42
   LOCATION L0046269     VOLUME   543754.910 3755626.973 293.47
   LOCATION L0046270     VOLUME   543751.399 3755627.997 293.52
   LOCATION L0046271     VOLUME   543747.888 3755629.021 293.56
   LOCATION L0046272     VOLUME   543744.377 3755630.045 293.60
   LOCATION L0046273     VOLUME   543740.834 3755630.854 293.63
   LOCATION L0046274     VOLUME   543737.176 3755630.874 293.66
   LOCATION L0046275     VOLUME   543733.519 3755630.895 293.68
   LOCATION L0046276     VOLUME   543729.861 3755630.915 293.70
   LOCATION L0046277     VOLUME   543726.204 3755630.936 293.72
   LOCATION L0046278     VOLUME   543722.546 3755630.956 293.75
   LOCATION L0046279     VOLUME   543718.889 3755630.977 293.77
   LOCATION L0046280     VOLUME   543715.231 3755630.998 293.80
   LOCATION L0046281     VOLUME   543711.574 3755631.018 293.82
   LOCATION L0046282     VOLUME   543707.916 3755631.039 293.84
   LOCATION L0046283     VOLUME   543704.258 3755631.059 293.87
   LOCATION L0046284     VOLUME   543700.601 3755631.080 293.89
   LOCATION L0046285     VOLUME   543696.943 3755631.100 293.91
   LOCATION L0046286     VOLUME   543693.286 3755631.121 293.94
   LOCATION L0046287     VOLUME   543689.628 3755631.141 293.96
** End of LINE VOLUME Source ID = SLINE1
   LOCATION STCK1        POINT      544038.843  3755457.527      288.120
   LOCATION STCK2        POINT      543964.443  3755485.784      288.950
   LOCATION STCK3        POINT      544154.057  3754819.560      276.320
   LOCATION STCK4        POINT      544242.294  3754819.553      275.850
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
```

```
** DESCRSRC On-site along Street A
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000297
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
** 544361.162, 3755547.969, 287.87, 0.00, 1.70
** 544366.590, 3754744.006, 273.55, 0.00, 1.70
** ----------------------------------------------------------------------
   LOCATION L0046288     VOLUME   544361.174 3755546.141 287.97
   LOCATION L0046289     VOLUME   544361.199 3755542.483 287.92
   LOCATION L0046290     VOLUME   544361.223 3755538.825 287.88
   LOCATION L0046291     VOLUME   544361.248 3755535.168 287.84
   LOCATION L0046292     VOLUME   544361.273 3755531.510 287.80
   LOCATION L0046293     VOLUME   544361.297 3755527.853 287.75
   LOCATION L0046294     VOLUME   544361.322 3755524.195 287.69
   LOCATION L0046295     VOLUME   544361.347 3755520.538 287.64
   LOCATION L0046296     VOLUME   544361.371 3755516.880 287.58
   LOCATION L0046297     VOLUME   544361.396 3755513.223 287.53
   LOCATION L0046298     VOLUME   544361.421 3755509.565 287.47
   LOCATION L0046299     VOLUME   544361.446 3755505.908 287.42
   LOCATION L0046300     VOLUME   544361.470 3755502.250 287.36
   LOCATION L0046301     VOLUME   544361.495 3755498.593 287.30
   LOCATION L0046302     VOLUME   544361.520 3755494.935 287.24
   LOCATION L0046303     VOLUME   544361.544 3755491.278 287.19
   LOCATION L0046304     VOLUME   544361.569 3755487.620 287.13
   LOCATION L0046305     VOLUME   544361.594 3755483.963 287.07
   LOCATION L0046306     VOLUME   544361.618 3755480.305 287.01
   LOCATION L0046307     VOLUME   544361.643 3755476.648 286.95
   LOCATION L0046308     VOLUME   544361.668 3755472.990 286.89
   LOCATION L0046309     VOLUME   544361.692 3755469.333 286.83
   LOCATION L0046310     VOLUME   544361.717 3755465.675 286.77
   LOCATION L0046311     VOLUME   544361.742 3755462.018 286.70
   LOCATION L0046312     VOLUME   544361.767 3755458.360 286.64
   LOCATION L0046313     VOLUME   544361.791 3755454.703 286.58
   LOCATION L0046314     VOLUME   544361.816 3755451.045 286.51
   LOCATION L0046315     VOLUME   544361.841 3755447.388 286.45
   LOCATION L0046316     VOLUME   544361.865 3755443.730 286.38
   LOCATION L0046317     VOLUME   544361.890 3755440.073 286.32
   LOCATION L0046318     VOLUME   544361.915 3755436.415 286.25
   LOCATION L0046319     VOLUME   544361.939 3755432.757 286.18
   LOCATION L0046320     VOLUME   544361.964 3755429.100 286.12
   LOCATION L0046321     VOLUME   544361.989 3755425.442 286.05
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC On-site along Street B/Street F
** PREFIX
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** Configuration = Adjacent
** Emission Rate = 0.0000341
** Elevated
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** End of LINE VOLUME Source ID = SLINE4
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** DESCRSRC Little Morongo from 15th Ave to Dillon Rd
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000442
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC Dillon Rd from Little Morongo to Indian Canyon Dr
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000241
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
** 543670.968, 3753932.325, 262.42, 0.00, 1.70
** 542037.108, 3753928.551, 269.38, 0.00, 1.70
** ----------------------------------------------------------------------
   LOCATION L0047223     VOLUME   543669.139 3753932.321 262.48
   LOCATION L0047224     VOLUME   543665.482 3753932.312 262.49
   LOCATION L0047225     VOLUME   543661.824 3753932.304 262.51
   LOCATION L0047226     VOLUME   543658.167 3753932.295 262.52
   LOCATION L0047227     VOLUME   543654.509 3753932.287 262.53
   LOCATION L0047228     VOLUME   543650.851 3753932.278 262.53
   LOCATION L0047229     VOLUME   543647.194 3753932.270 262.54
   LOCATION L0047230     VOLUME   543643.536 3753932.262 262.55
   LOCATION L0047231     VOLUME   543639.879 3753932.253 262.56
   LOCATION L0047232     VOLUME   543636.221 3753932.245 262.57
   LOCATION L0047233     VOLUME   543632.564 3753932.236 262.58
   LOCATION L0047234     VOLUME   543628.906 3753932.228 262.59
   LOCATION L0047235     VOLUME   543625.248 3753932.219 262.60
   LOCATION L0047236     VOLUME   543621.591 3753932.211 262.61
   LOCATION L0047237     VOLUME   543617.933 3753932.202 262.61
   LOCATION L0047238     VOLUME   543614.276 3753932.194 262.62
   LOCATION L0047239     VOLUME   543610.618 3753932.185 262.63
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LOCATION L0047241     VOLUME   543603.303 3753932.169 262.65
LOCATION L0047242     VOLUME   543599.645 3753932.160 262.66
LOCATION L0047243     VOLUME   543595.988 3753932.152 262.67
LOCATION L0047244     VOLUME   543592.330 3753932.143 262.68
LOCATION L0047245     VOLUME   543588.672 3753932.135 262.69
LOCATION L0047246     VOLUME   543585.015 3753932.126 262.70
LOCATION L0047247     VOLUME   543581.357 3753932.118 262.72
LOCATION L0047248     VOLUME   543577.700 3753932.109 262.73
LOCATION L0047249     VOLUME   543574.042 3753932.101 262.75
LOCATION L0047250     VOLUME   543570.384 3753932.093 262.77
LOCATION L0047251     VOLUME   543566.727 3753932.084 262.79
LOCATION L0047252     VOLUME   543563.069 3753932.076 262.81
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LOCATION L0047254     VOLUME   543555.754 3753932.059 262.84
LOCATION L0047255     VOLUME   543552.097 3753932.050 262.85
LOCATION L0047256     VOLUME   543548.439 3753932.042 262.86
LOCATION L0047257     VOLUME   543544.781 3753932.033 262.87
LOCATION L0047258     VOLUME   543541.124 3753932.025 262.88
LOCATION L0047259     VOLUME   543537.466 3753932.016 262.90
LOCATION L0047260     VOLUME   543533.809 3753932.008 262.91
LOCATION L0047261     VOLUME   543530.151 3753932.000 262.93
LOCATION L0047262     VOLUME   543526.493 3753931.991 262.97
LOCATION L0047263     VOLUME   543522.836 3753931.983 263.01
LOCATION L0047264     VOLUME   543519.178 3753931.974 263.05
LOCATION L0047265     VOLUME   543515.521 3753931.966 263.09
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LOCATION L0047267     VOLUME   543508.205 3753931.949 263.17
LOCATION L0047268     VOLUME   543504.548 3753931.940 263.20
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LOCATION L0047270     VOLUME   543497.233 3753931.924 263.26
LOCATION L0047271     VOLUME   543493.575 3753931.915 263.29
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LOCATION L0047282     VOLUME   543453.342 3753931.822 263.50
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LOCATION L0047288     VOLUME   543431.396 3753931.771 263.61
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LOCATION L0047290     VOLUME   543424.081 3753931.755 263.63
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LOCATION L0047297     VOLUME   543398.478 3753931.695 263.72
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LOCATION L0047341     VOLUME   543237.544 3753931.324 264.05
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LOCATION L0047487     VOLUME   542703.536 3753930.090 266.00
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LOCATION L0047492     VOLUME   542685.248 3753930.048 266.13
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LOCATION L0047494     VOLUME   542677.932 3753930.031 266.17
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LOCATION L0047496     VOLUME   542670.617 3753930.014 266.21
LOCATION L0047497     VOLUME   542666.960 3753930.006 266.23
LOCATION L0047498     VOLUME   542663.302 3753929.997 266.25
LOCATION L0047499     VOLUME   542659.645 3753929.989 266.26
LOCATION L0047500     VOLUME   542655.987 3753929.980 266.29
LOCATION L0047501     VOLUME   542652.329 3753929.972 266.32
LOCATION L0047502     VOLUME   542648.672 3753929.963 266.35
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LOCATION L0047504     VOLUME   542641.357 3753929.946 266.41
LOCATION L0047505     VOLUME   542637.699 3753929.938 266.44
LOCATION L0047506     VOLUME   542634.041 3753929.930 266.47
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LOCATION L0047511     VOLUME   542615.753 3753929.887 266.55
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LOCATION L0047518     VOLUME   542590.150 3753929.828 266.68
LOCATION L0047519     VOLUME   542586.493 3753929.820 266.70
LOCATION L0047520     VOLUME   542582.835 3753929.811 266.72
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LOCATION L0047522     VOLUME   542575.520 3753929.794 266.77
LOCATION L0047523     VOLUME   542571.862 3753929.786 266.79
LOCATION L0047524     VOLUME   542568.205 3753929.777 266.81
LOCATION L0047525     VOLUME   542564.547 3753929.769 266.83
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** End of LINE VOLUME Source ID = SLINE6
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE7
** DESCRSRC Indian Canyon south of Dillon Rd
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 9.42E-06
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
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LOCATION L0047829     VOLUME   542032.345 3753341.795 255.36
LOCATION L0047830     VOLUME   542032.313 3753338.137 255.26
LOCATION L0047831     VOLUME   542032.281 3753334.480 255.16
LOCATION L0047832     VOLUME   542032.249 3753330.822 255.06
LOCATION L0047833     VOLUME   542032.217 3753327.165 254.96
LOCATION L0047834     VOLUME   542032.185 3753323.507 254.86
LOCATION L0047835     VOLUME   542032.152 3753319.850 254.76
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LOCATION L0047836     VOLUME   542032.120 3753316.192 254.66
LOCATION L0047837     VOLUME   542032.088 3753312.535 254.56
LOCATION L0047838     VOLUME   542032.056 3753308.877 254.46
LOCATION L0047839     VOLUME   542032.024 3753305.220 254.35
LOCATION L0047840     VOLUME   542031.992 3753301.562 254.25
LOCATION L0047841     VOLUME   542031.960 3753297.905 254.17
LOCATION L0047842     VOLUME   542031.928 3753294.248 254.08
LOCATION L0047843     VOLUME   542031.896 3753290.590 253.99
LOCATION L0047844     VOLUME   542031.863 3753286.933 253.90
LOCATION L0047845     VOLUME   542031.831 3753283.275 253.81
LOCATION L0047846     VOLUME   542031.799 3753279.618 253.72
LOCATION L0047847     VOLUME   542031.767 3753275.960 253.63
LOCATION L0047848     VOLUME   542031.735 3753272.303 253.54
LOCATION L0047849     VOLUME   542031.703 3753268.645 253.46
LOCATION L0047850     VOLUME   542031.671 3753264.988 253.38
LOCATION L0047851     VOLUME   542031.639 3753261.330 253.29
LOCATION L0047852     VOLUME   542031.607 3753257.673 253.21
LOCATION L0047853     VOLUME   542031.574 3753254.016 253.13
LOCATION L0047854     VOLUME   542031.542 3753250.358 253.05
LOCATION L0047855     VOLUME   542031.510 3753246.701 252.96
LOCATION L0047856     VOLUME   542031.478 3753243.043 252.88
LOCATION L0047857     VOLUME   542031.446 3753239.386 252.80
LOCATION L0047858     VOLUME   542031.414 3753235.728 252.73
LOCATION L0047859     VOLUME   542031.382 3753232.071 252.65
LOCATION L0047860     VOLUME   542031.350 3753228.413 252.58
LOCATION L0047861     VOLUME   542031.318 3753224.756 252.51
LOCATION L0047862     VOLUME   542031.285 3753221.098 252.43
LOCATION L0047863     VOLUME   542031.253 3753217.441 252.36
LOCATION L0047864     VOLUME   542031.221 3753213.783 252.29
LOCATION L0047865     VOLUME   542031.189 3753210.126 252.21
LOCATION L0047866     VOLUME   542031.157 3753206.469 252.14
LOCATION L0047867     VOLUME   542031.125 3753202.811 252.06
LOCATION L0047868     VOLUME   542031.093 3753199.154 251.99
LOCATION L0047869     VOLUME   542031.061 3753195.496 251.91
LOCATION L0047870     VOLUME   542031.029 3753191.839 251.83
LOCATION L0047871     VOLUME   542030.996 3753188.181 251.76
LOCATION L0047872     VOLUME   542030.964 3753184.524 251.68
LOCATION L0047873     VOLUME   542030.932 3753180.866 251.60
LOCATION L0047874     VOLUME   542030.900 3753177.209 251.52
LOCATION L0047875     VOLUME   542030.868 3753173.551 251.44
LOCATION L0047876     VOLUME   542030.836 3753169.894 251.35
LOCATION L0047877     VOLUME   542030.804 3753166.236 251.27
LOCATION L0047878     VOLUME   542030.772 3753162.579 251.19
LOCATION L0047879     VOLUME   542030.740 3753158.922 251.10
LOCATION L0047880     VOLUME   542030.707 3753155.264 251.02
LOCATION L0047881     VOLUME   542030.675 3753151.607 250.94
LOCATION L0047882     VOLUME   542030.643 3753147.949 250.85
LOCATION L0047883     VOLUME   542030.611 3753144.292 250.75
LOCATION L0047884     VOLUME   542030.579 3753140.634 250.64
LOCATION L0047885     VOLUME   542030.547 3753136.977 250.54
LOCATION L0047886     VOLUME   542030.515 3753133.319 250.43
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   LOCATION L0047887     VOLUME   542030.483 3753129.662 250.33
   LOCATION L0047888     VOLUME   542030.451 3753126.004 250.22
   LOCATION L0047889     VOLUME   542030.418 3753122.347 250.11
** End of LINE VOLUME Source ID = SLINE7
   LOCATION STCK5        POINT      544098.081  3755457.037      287.930
** DESCRSRC Loading 2
   LOCATION STCK6        POINT      544228.210  3755457.220      287.390
   LOCATION STCK7        POINT      544288.730  3755456.950      287.040
   LOCATION STCK8        POINT      543964.090  3755374.250      286.830
   LOCATION STCK9        POINT      544038.290  3755339.920      285.950
   LOCATION STCK10       POINT      544095.710  3755341.430      285.760
   LOCATION STCK11       POINT      544222.780  3755337.360      285.250
   LOCATION STCK12       POINT      544287.620  3755338.410      284.960
   LOCATION STCK13       POINT      544383.950  3755371.980      284.940
   LOCATION STCK14       POINT      544385.650  3755307.270      283.900
   LOCATION STCK15       POINT      544039.120  3755242.560      283.550
   LOCATION STCK16       POINT      544102.120  3755240.860      283.580
   LOCATION STCK18       POINT      544221.320  3755240.860      283.510
   LOCATION STCK19       POINT      544286.030  3755242.560      283.350
   LOCATION STCK20       POINT      544163.430  3755195.730      282.910
   LOCATION STCK21       POINT      544235.800  3755196.580      282.760
   LOCATION STCK22       POINT      544091.910  3755163.380      282.380
   LOCATION STCK23       POINT      544292.840  3755160.820      281.970
   LOCATION STCK24       POINT      544383.320  3755192.490      282.170
   LOCATION STCK25       POINT      544382.470  3755120.120      280.940
   LOCATION STCK26       POINT      544167.160  3755002.480      279.520
   LOCATION STCK27       POINT      544222.260  3755001.480      279.290
   LOCATION STCK28       POINT      544294.390  3755041.550      279.760
   LOCATION STCK29       POINT      544379.530  3755001.480      278.540
   LOCATION STCK30       POINT      544379.730  3754935.820      277.210
   LOCATION STCK31       POINT      544291.130  3754901.370      277.030
   LOCATION STCK32       POINT      544165.610  3754937.670      278.260
   LOCATION STCK33       POINT      544235.140  3754937.050      277.970
   LOCATION STCK34       POINT      544317.590  3754820.760      275.350
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE11
** DESCRSRC On-site Along Street E
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000111
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
** 543899.882, 3755432.329, 288.32, 0.00, 1.70
** 544356.428, 3755432.147, 286.24, 0.00, 1.70
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   LOCATION L0047891     VOLUME   543905.369 3755432.327 288.26
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LOCATION L0047892     VOLUME   543909.026 3755432.325 288.23
LOCATION L0047893     VOLUME   543912.684 3755432.324 288.20
LOCATION L0047894     VOLUME   543916.341 3755432.323 288.16
LOCATION L0047895     VOLUME   543919.999 3755432.321 288.12
LOCATION L0047896     VOLUME   543923.657 3755432.320 288.09
LOCATION L0047897     VOLUME   543927.314 3755432.318 288.05
LOCATION L0047898     VOLUME   543930.972 3755432.317 288.01
LOCATION L0047899     VOLUME   543934.629 3755432.315 287.98
LOCATION L0047900     VOLUME   543938.287 3755432.314 287.94
LOCATION L0047901     VOLUME   543941.945 3755432.312 287.91
LOCATION L0047902     VOLUME   543945.602 3755432.311 287.87
LOCATION L0047903     VOLUME   543949.260 3755432.309 287.84
LOCATION L0047904     VOLUME   543952.917 3755432.308 287.80
LOCATION L0047905     VOLUME   543956.575 3755432.306 287.77
LOCATION L0047906     VOLUME   543960.233 3755432.305 287.73
LOCATION L0047907     VOLUME   543963.890 3755432.304 287.72
LOCATION L0047908     VOLUME   543967.548 3755432.302 287.72
LOCATION L0047909     VOLUME   543971.205 3755432.301 287.72
LOCATION L0047910     VOLUME   543974.863 3755432.299 287.72
LOCATION L0047911     VOLUME   543978.521 3755432.298 287.72
LOCATION L0047912     VOLUME   543982.178 3755432.296 287.72
LOCATION L0047913     VOLUME   543985.836 3755432.295 287.72
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LOCATION L0047915     VOLUME   543993.151 3755432.292 287.70
LOCATION L0047916     VOLUME   543996.809 3755432.290 287.68
LOCATION L0047917     VOLUME   544000.466 3755432.289 287.67
LOCATION L0047918     VOLUME   544004.124 3755432.288 287.66
LOCATION L0047919     VOLUME   544007.781 3755432.286 287.65
LOCATION L0047920     VOLUME   544011.439 3755432.285 287.64
LOCATION L0047921     VOLUME   544015.097 3755432.283 287.63
LOCATION L0047922     VOLUME   544018.754 3755432.282 287.63
LOCATION L0047923     VOLUME   544022.412 3755432.280 287.63
LOCATION L0047924     VOLUME   544026.069 3755432.279 287.62
LOCATION L0047925     VOLUME   544029.727 3755432.277 287.62
LOCATION L0047926     VOLUME   544033.385 3755432.276 287.62
LOCATION L0047927     VOLUME   544037.042 3755432.274 287.62
LOCATION L0047928     VOLUME   544040.700 3755432.273 287.62
LOCATION L0047929     VOLUME   544044.357 3755432.271 287.62
LOCATION L0047930     VOLUME   544048.015 3755432.270 287.62
LOCATION L0047931     VOLUME   544051.673 3755432.269 287.62
LOCATION L0047932     VOLUME   544055.330 3755432.267 287.62
LOCATION L0047933     VOLUME   544058.988 3755432.266 287.62
LOCATION L0047934     VOLUME   544062.645 3755432.264 287.62
LOCATION L0047935     VOLUME   544066.303 3755432.263 287.61
LOCATION L0047936     VOLUME   544069.961 3755432.261 287.60
LOCATION L0047937     VOLUME   544073.618 3755432.260 287.58
LOCATION L0047938     VOLUME   544077.276 3755432.258 287.57
LOCATION L0047939     VOLUME   544080.933 3755432.257 287.56
LOCATION L0047940     VOLUME   544084.591 3755432.255 287.54
LOCATION L0047941     VOLUME   544088.249 3755432.254 287.53
LOCATION L0047942     VOLUME   544091.906 3755432.253 287.52
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LOCATION L0047943     VOLUME   544095.564 3755432.251 287.50
LOCATION L0047944     VOLUME   544099.221 3755432.250 287.49
LOCATION L0047945     VOLUME   544102.879 3755432.248 287.47
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LOCATION L0047947     VOLUME   544110.194 3755432.245 287.44
LOCATION L0047948     VOLUME   544113.852 3755432.244 287.43
LOCATION L0047949     VOLUME   544117.509 3755432.242 287.42
LOCATION L0047950     VOLUME   544121.167 3755432.241 287.40
LOCATION L0047951     VOLUME   544124.825 3755432.239 287.38
LOCATION L0047952     VOLUME   544128.482 3755432.238 287.37
LOCATION L0047953     VOLUME   544132.140 3755432.237 287.35
LOCATION L0047954     VOLUME   544135.797 3755432.235 287.34
LOCATION L0047955     VOLUME   544139.455 3755432.234 287.32
LOCATION L0047956     VOLUME   544143.113 3755432.232 287.31
LOCATION L0047957     VOLUME   544146.770 3755432.231 287.30
LOCATION L0047958     VOLUME   544150.428 3755432.229 287.28
LOCATION L0047959     VOLUME   544154.085 3755432.228 287.27
LOCATION L0047960     VOLUME   544157.743 3755432.226 287.26
LOCATION L0047961     VOLUME   544161.401 3755432.225 287.24
LOCATION L0047962     VOLUME   544165.058 3755432.223 287.23
LOCATION L0047963     VOLUME   544168.716 3755432.222 287.21
LOCATION L0047964     VOLUME   544172.373 3755432.220 287.19
LOCATION L0047965     VOLUME   544176.031 3755432.219 287.18
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LOCATION L0047970     VOLUME   544194.319 3755432.212 287.09
LOCATION L0047971     VOLUME   544197.977 3755432.210 287.08
LOCATION L0047972     VOLUME   544201.634 3755432.209 287.07
LOCATION L0047973     VOLUME   544205.292 3755432.207 287.06
LOCATION L0047974     VOLUME   544208.949 3755432.206 287.05
LOCATION L0047975     VOLUME   544212.607 3755432.204 287.03
LOCATION L0047976     VOLUME   544216.265 3755432.203 287.02
LOCATION L0047977     VOLUME   544219.922 3755432.202 287.01
LOCATION L0047978     VOLUME   544223.580 3755432.200 286.99
LOCATION L0047979     VOLUME   544227.237 3755432.199 286.97
LOCATION L0047980     VOLUME   544230.895 3755432.197 286.95
LOCATION L0047981     VOLUME   544234.553 3755432.196 286.93
LOCATION L0047982     VOLUME   544238.210 3755432.194 286.91
LOCATION L0047983     VOLUME   544241.868 3755432.193 286.89
LOCATION L0047984     VOLUME   544245.525 3755432.191 286.87
LOCATION L0047985     VOLUME   544249.183 3755432.190 286.85
LOCATION L0047986     VOLUME   544252.841 3755432.188 286.83
LOCATION L0047987     VOLUME   544256.498 3755432.187 286.82
LOCATION L0047988     VOLUME   544260.156 3755432.185 286.80
LOCATION L0047989     VOLUME   544263.813 3755432.184 286.78
LOCATION L0047990     VOLUME   544267.471 3755432.183 286.76
LOCATION L0047991     VOLUME   544271.129 3755432.181 286.74
LOCATION L0047992     VOLUME   544274.786 3755432.180 286.71
LOCATION L0047993     VOLUME   544278.444 3755432.178 286.69
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   LOCATION L0047994     VOLUME   544282.101 3755432.177 286.67
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   LOCATION L0047996     VOLUME   544289.417 3755432.174 286.62
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   LOCATION L0047999     VOLUME   544300.389 3755432.169 286.56
   LOCATION L0048000     VOLUME   544304.047 3755432.168 286.53
   LOCATION L0048001     VOLUME   544307.705 3755432.167 286.51
   LOCATION L0048002     VOLUME   544311.362 3755432.165 286.49
   LOCATION L0048003     VOLUME   544315.020 3755432.164 286.47
   LOCATION L0048004     VOLUME   544318.677 3755432.162 286.45
   LOCATION L0048005     VOLUME   544322.335 3755432.161 286.43
   LOCATION L0048006     VOLUME   544325.993 3755432.159 286.40
   LOCATION L0048007     VOLUME   544329.650 3755432.158 286.38
   LOCATION L0048008     VOLUME   544333.308 3755432.156 286.36
   LOCATION L0048009     VOLUME   544336.965 3755432.155 286.33
   LOCATION L0048010     VOLUME   544340.623 3755432.153 286.31
   LOCATION L0048011     VOLUME   544344.281 3755432.152 286.29
   LOCATION L0048012     VOLUME   544347.938 3755432.151 286.26
   LOCATION L0048013     VOLUME   544351.596 3755432.149 286.24
   LOCATION L0048014     VOLUME   544355.253 3755432.148 286.22
** End of LINE VOLUME Source ID = SLINE11
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE12
** DESCRSRC On-site along Street D
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 9.76E-06
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 4
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** 543998.623, 3755216.757, 283.88, 0.00, 1.70
** 544012.518, 3755219.423, 283.43, 0.00, 1.70
** 544357.579, 3755217.675, 282.67, 0.00, 1.70
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   LOCATION L0048016     VOLUME   543965.267 3755202.628 284.00
   LOCATION L0048017     VOLUME   543968.635 3755204.055 283.99
   LOCATION L0048018     VOLUME   543972.003 3755205.481 283.98
   LOCATION L0048019     VOLUME   543975.371 3755206.908 283.97
   LOCATION L0048020     VOLUME   543978.739 3755208.334 283.96
   LOCATION L0048021     VOLUME   543982.107 3755209.761 283.95
   LOCATION L0048022     VOLUME   543985.475 3755211.187 283.94
   LOCATION L0048023     VOLUME   543988.843 3755212.614 283.92
   LOCATION L0048024     VOLUME   543992.211 3755214.041 283.87
   LOCATION L0048025     VOLUME   543995.579 3755215.467 283.82
   LOCATION L0048026     VOLUME   543998.968 3755216.823 283.76
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LOCATION L0048029     VOLUME   544009.744 3755218.891 283.51
LOCATION L0048030     VOLUME   544013.351 3755219.419 283.43
LOCATION L0048031     VOLUME   544017.009 3755219.401 283.39
LOCATION L0048032     VOLUME   544020.666 3755219.382 283.35
LOCATION L0048033     VOLUME   544024.324 3755219.364 283.31
LOCATION L0048034     VOLUME   544027.981 3755219.345 283.28
LOCATION L0048035     VOLUME   544031.639 3755219.326 283.24
LOCATION L0048036     VOLUME   544035.297 3755219.308 283.20
LOCATION L0048037     VOLUME   544038.954 3755219.289 283.17
LOCATION L0048038     VOLUME   544042.612 3755219.271 283.16
LOCATION L0048039     VOLUME   544046.269 3755219.252 283.16
LOCATION L0048040     VOLUME   544049.927 3755219.234 283.16
LOCATION L0048041     VOLUME   544053.584 3755219.215 283.16
LOCATION L0048042     VOLUME   544057.242 3755219.197 283.15
LOCATION L0048043     VOLUME   544060.899 3755219.178 283.15
LOCATION L0048044     VOLUME   544064.557 3755219.160 283.15
LOCATION L0048045     VOLUME   544068.215 3755219.141 283.16
LOCATION L0048046     VOLUME   544071.872 3755219.123 283.16
LOCATION L0048047     VOLUME   544075.530 3755219.104 283.17
LOCATION L0048048     VOLUME   544079.187 3755219.086 283.18
LOCATION L0048049     VOLUME   544082.845 3755219.067 283.19
LOCATION L0048050     VOLUME   544086.502 3755219.048 283.20
LOCATION L0048051     VOLUME   544090.160 3755219.030 283.20
LOCATION L0048052     VOLUME   544093.817 3755219.011 283.20
LOCATION L0048053     VOLUME   544097.475 3755218.993 283.20
LOCATION L0048054     VOLUME   544101.133 3755218.974 283.20
LOCATION L0048055     VOLUME   544104.790 3755218.956 283.20
LOCATION L0048056     VOLUME   544108.448 3755218.937 283.20
LOCATION L0048057     VOLUME   544112.105 3755218.919 283.20
LOCATION L0048058     VOLUME   544115.763 3755218.900 283.20
LOCATION L0048059     VOLUME   544119.420 3755218.882 283.20
LOCATION L0048060     VOLUME   544123.078 3755218.863 283.21
LOCATION L0048061     VOLUME   544126.735 3755218.845 283.22
LOCATION L0048062     VOLUME   544130.393 3755218.826 283.23
LOCATION L0048063     VOLUME   544134.050 3755218.807 283.24
LOCATION L0048064     VOLUME   544137.708 3755218.789 283.24
LOCATION L0048065     VOLUME   544141.366 3755218.770 283.25
LOCATION L0048066     VOLUME   544145.023 3755218.752 283.25
LOCATION L0048067     VOLUME   544148.681 3755218.733 283.25
LOCATION L0048068     VOLUME   544152.338 3755218.715 283.25
LOCATION L0048069     VOLUME   544155.996 3755218.696 283.25
LOCATION L0048070     VOLUME   544159.653 3755218.678 283.25
LOCATION L0048071     VOLUME   544163.311 3755218.659 283.25
LOCATION L0048072     VOLUME   544166.968 3755218.641 283.25
LOCATION L0048073     VOLUME   544170.626 3755218.622 283.25
LOCATION L0048074     VOLUME   544174.284 3755218.604 283.24
LOCATION L0048075     VOLUME   544177.941 3755218.585 283.23
LOCATION L0048076     VOLUME   544181.599 3755218.567 283.22
LOCATION L0048077     VOLUME   544185.256 3755218.548 283.21
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   LOCATION L0048078     VOLUME   544188.914 3755218.529 283.20
   LOCATION L0048079     VOLUME   544192.571 3755218.511 283.19
   LOCATION L0048080     VOLUME   544196.229 3755218.492 283.19
   LOCATION L0048081     VOLUME   544199.886 3755218.474 283.18
   LOCATION L0048082     VOLUME   544203.544 3755218.455 283.17
   LOCATION L0048083     VOLUME   544207.202 3755218.437 283.17
   LOCATION L0048084     VOLUME   544210.859 3755218.418 283.16
   LOCATION L0048085     VOLUME   544214.517 3755218.400 283.16
   LOCATION L0048086     VOLUME   544218.174 3755218.381 283.15
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   LOCATION L0048089     VOLUME   544229.147 3755218.326 283.11
   LOCATION L0048090     VOLUME   544232.804 3755218.307 283.10
   LOCATION L0048091     VOLUME   544236.462 3755218.288 283.09
   LOCATION L0048092     VOLUME   544240.120 3755218.270 283.08
   LOCATION L0048093     VOLUME   544243.777 3755218.251 283.06
   LOCATION L0048094     VOLUME   544247.435 3755218.233 283.05
   LOCATION L0048095     VOLUME   544251.092 3755218.214 283.04
   LOCATION L0048096     VOLUME   544254.750 3755218.196 283.03
   LOCATION L0048097     VOLUME   544258.407 3755218.177 283.02
   LOCATION L0048098     VOLUME   544262.065 3755218.159 283.01
   LOCATION L0048099     VOLUME   544265.722 3755218.140 283.00
   LOCATION L0048100     VOLUME   544269.380 3755218.122 282.98
   LOCATION L0048101     VOLUME   544273.037 3755218.103 282.97
   LOCATION L0048102     VOLUME   544276.695 3755218.085 282.96
   LOCATION L0048103     VOLUME   544280.353 3755218.066 282.95
   LOCATION L0048104     VOLUME   544284.010 3755218.048 282.94
   LOCATION L0048105     VOLUME   544287.668 3755218.029 282.93
   LOCATION L0048106     VOLUME   544291.325 3755218.010 282.92
   LOCATION L0048107     VOLUME   544294.983 3755217.992 282.91
   LOCATION L0048108     VOLUME   544298.640 3755217.973 282.90
   LOCATION L0048109     VOLUME   544302.298 3755217.955 282.88
   LOCATION L0048110     VOLUME   544305.955 3755217.936 282.86
   LOCATION L0048111     VOLUME   544309.613 3755217.918 282.84
   LOCATION L0048112     VOLUME   544313.271 3755217.899 282.82
   LOCATION L0048113     VOLUME   544316.928 3755217.881 282.80
   LOCATION L0048114     VOLUME   544320.586 3755217.862 282.78
   LOCATION L0048115     VOLUME   544324.243 3755217.844 282.76
   LOCATION L0048116     VOLUME   544327.901 3755217.825 282.75
   LOCATION L0048117     VOLUME   544331.558 3755217.807 282.74
   LOCATION L0048118     VOLUME   544335.216 3755217.788 282.73
   LOCATION L0048119     VOLUME   544338.873 3755217.769 282.72
   LOCATION L0048120     VOLUME   544342.531 3755217.751 282.71
   LOCATION L0048121     VOLUME   544346.189 3755217.732 282.70
   LOCATION L0048122     VOLUME   544349.846 3755217.714 282.68
   LOCATION L0048123     VOLUME   544353.504 3755217.695 282.66
   LOCATION L0048124     VOLUME   544357.161 3755217.677 282.64
** End of LINE VOLUME Source ID = SLINE12
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE13
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** DESCRSRC On-site along Street C
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 6.29E-06
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
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** 544358.807, 3754970.151, 277.94, 0.00, 1.70
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   LOCATION L0048126     VOLUME   544106.223 3754969.522 279.03
   LOCATION L0048127     VOLUME   544109.880 3754969.531 279.02
   LOCATION L0048128     VOLUME   544113.538 3754969.540 279.01
   LOCATION L0048129     VOLUME   544117.196 3754969.549 279.01
   LOCATION L0048130     VOLUME   544120.853 3754969.558 279.00
   LOCATION L0048131     VOLUME   544124.511 3754969.567 278.99
   LOCATION L0048132     VOLUME   544128.168 3754969.576 278.99
   LOCATION L0048133     VOLUME   544131.826 3754969.585 278.98
   LOCATION L0048134     VOLUME   544135.484 3754969.594 278.97
   LOCATION L0048135     VOLUME   544139.141 3754969.604 278.97
   LOCATION L0048136     VOLUME   544142.799 3754969.613 278.96
   LOCATION L0048137     VOLUME   544146.456 3754969.622 278.95
   LOCATION L0048138     VOLUME   544150.114 3754969.631 278.93
   LOCATION L0048139     VOLUME   544153.772 3754969.640 278.92
   LOCATION L0048140     VOLUME   544157.429 3754969.649 278.90
   LOCATION L0048141     VOLUME   544161.087 3754969.658 278.89
   LOCATION L0048142     VOLUME   544164.744 3754969.667 278.87
   LOCATION L0048143     VOLUME   544168.402 3754969.676 278.86
   LOCATION L0048144     VOLUME   544172.060 3754969.686 278.85
   LOCATION L0048145     VOLUME   544175.717 3754969.695 278.83
   LOCATION L0048146     VOLUME   544179.375 3754969.704 278.82
   LOCATION L0048147     VOLUME   544183.032 3754969.713 278.81
   LOCATION L0048148     VOLUME   544186.690 3754969.722 278.79
   LOCATION L0048149     VOLUME   544190.347 3754969.731 278.78
   LOCATION L0048150     VOLUME   544194.005 3754969.740 278.77
   LOCATION L0048151     VOLUME   544197.663 3754969.749 278.76
   LOCATION L0048152     VOLUME   544201.320 3754969.758 278.74
   LOCATION L0048153     VOLUME   544204.978 3754969.768 278.73
   LOCATION L0048154     VOLUME   544208.635 3754969.777 278.72
   LOCATION L0048155     VOLUME   544212.293 3754969.786 278.71
   LOCATION L0048156     VOLUME   544215.951 3754969.795 278.69
   LOCATION L0048157     VOLUME   544219.608 3754969.804 278.68
   LOCATION L0048158     VOLUME   544223.266 3754969.813 278.66
   LOCATION L0048159     VOLUME   544226.923 3754969.822 278.65
   LOCATION L0048160     VOLUME   544230.581 3754969.831 278.63
   LOCATION L0048161     VOLUME   544234.239 3754969.840 278.62
   LOCATION L0048162     VOLUME   544237.896 3754969.850 278.60
   LOCATION L0048163     VOLUME   544241.554 3754969.859 278.58
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   LOCATION L0048164     VOLUME   544245.211 3754969.868 278.57
   LOCATION L0048165     VOLUME   544248.869 3754969.877 278.55
   LOCATION L0048166     VOLUME   544252.526 3754969.886 278.53
   LOCATION L0048167     VOLUME   544256.184 3754969.895 278.52
   LOCATION L0048168     VOLUME   544259.842 3754969.904 278.50
   LOCATION L0048169     VOLUME   544263.499 3754969.913 278.49
   LOCATION L0048170     VOLUME   544267.157 3754969.922 278.47
   LOCATION L0048171     VOLUME   544270.814 3754969.932 278.45
   LOCATION L0048172     VOLUME   544274.472 3754969.941 278.43
   LOCATION L0048173     VOLUME   544278.130 3754969.950 278.41
   LOCATION L0048174     VOLUME   544281.787 3754969.959 278.39
   LOCATION L0048175     VOLUME   544285.445 3754969.968 278.37
   LOCATION L0048176     VOLUME   544289.102 3754969.977 278.35
   LOCATION L0048177     VOLUME   544292.760 3754969.986 278.33
   LOCATION L0048178     VOLUME   544296.418 3754969.995 278.31
   LOCATION L0048179     VOLUME   544300.075 3754970.004 278.29
   LOCATION L0048180     VOLUME   544303.733 3754970.013 278.27
   LOCATION L0048181     VOLUME   544307.390 3754970.023 278.25
   LOCATION L0048182     VOLUME   544311.048 3754970.032 278.23
   LOCATION L0048183     VOLUME   544314.705 3754970.041 278.22
   LOCATION L0048184     VOLUME   544318.363 3754970.050 278.20
   LOCATION L0048185     VOLUME   544322.021 3754970.059 278.18
   LOCATION L0048186     VOLUME   544325.678 3754970.068 278.16
   LOCATION L0048187     VOLUME   544329.336 3754970.077 278.15
   LOCATION L0048188     VOLUME   544332.993 3754970.086 278.13
   LOCATION L0048189     VOLUME   544336.651 3754970.095 278.12
   LOCATION L0048190     VOLUME   544340.309 3754970.105 278.10
   LOCATION L0048191     VOLUME   544343.966 3754970.114 278.09
   LOCATION L0048192     VOLUME   544347.624 3754970.123 278.07
   LOCATION L0048193     VOLUME   544351.281 3754970.132 278.05
   LOCATION L0048194     VOLUME   544354.939 3754970.141 278.03
   LOCATION L0048195     VOLUME   544358.597 3754970.150 278.02
** End of LINE VOLUME Source ID = SLINE13
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE14
** DESCRSRC Little Morongo - 15th Ave to 2 Bunch Palms Trail
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 8.54E-06
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
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** 543690.283, 3756364.348, 307.62, 0.00, 1.70
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   LOCATION L0048197     VOLUME   543688.088 3755640.571 294.17
   LOCATION L0048198     VOLUME   543688.099 3755644.229 294.24
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LOCATION L0048199     VOLUME   543688.110 3755647.887 294.32
LOCATION L0048200     VOLUME   543688.121 3755651.544 294.40
LOCATION L0048201     VOLUME   543688.132 3755655.202 294.47
LOCATION L0048202     VOLUME   543688.143 3755658.859 294.55
LOCATION L0048203     VOLUME   543688.154 3755662.517 294.63
LOCATION L0048204     VOLUME   543688.165 3755666.174 294.70
LOCATION L0048205     VOLUME   543688.176 3755669.832 294.78
LOCATION L0048206     VOLUME   543688.188 3755673.490 294.86
LOCATION L0048207     VOLUME   543688.199 3755677.147 294.93
LOCATION L0048208     VOLUME   543688.210 3755680.805 295.01
LOCATION L0048209     VOLUME   543688.221 3755684.462 295.09
LOCATION L0048210     VOLUME   543688.232 3755688.120 295.17
LOCATION L0048211     VOLUME   543688.243 3755691.778 295.24
LOCATION L0048212     VOLUME   543688.254 3755695.435 295.32
LOCATION L0048213     VOLUME   543688.265 3755699.093 295.40
LOCATION L0048214     VOLUME   543688.276 3755702.750 295.48
LOCATION L0048215     VOLUME   543688.287 3755706.408 295.55
LOCATION L0048216     VOLUME   543688.298 3755710.065 295.63
LOCATION L0048217     VOLUME   543688.310 3755713.723 295.71
LOCATION L0048218     VOLUME   543688.321 3755717.381 295.79
LOCATION L0048219     VOLUME   543688.332 3755721.038 295.86
LOCATION L0048220     VOLUME   543688.343 3755724.696 295.94
LOCATION L0048221     VOLUME   543688.354 3755728.353 296.02
LOCATION L0048222     VOLUME   543688.365 3755732.011 296.10
LOCATION L0048223     VOLUME   543688.376 3755735.669 296.18
LOCATION L0048224     VOLUME   543688.387 3755739.326 296.26
LOCATION L0048225     VOLUME   543688.398 3755742.984 296.33
LOCATION L0048226     VOLUME   543688.409 3755746.641 296.41
LOCATION L0048227     VOLUME   543688.421 3755750.299 296.48
LOCATION L0048228     VOLUME   543688.432 3755753.956 296.56
LOCATION L0048229     VOLUME   543688.443 3755757.614 296.63
LOCATION L0048230     VOLUME   543688.454 3755761.272 296.71
LOCATION L0048231     VOLUME   543688.465 3755764.929 296.78
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LOCATION L0048234     VOLUME   543688.498 3755775.902 297.00
LOCATION L0048235     VOLUME   543688.509 3755779.560 297.08
LOCATION L0048236     VOLUME   543688.520 3755783.217 297.15
LOCATION L0048237     VOLUME   543688.531 3755786.875 297.22
LOCATION L0048238     VOLUME   543688.543 3755790.532 297.30
LOCATION L0048239     VOLUME   543688.554 3755794.190 297.37
LOCATION L0048240     VOLUME   543688.565 3755797.847 297.44
LOCATION L0048241     VOLUME   543688.576 3755801.505 297.51
LOCATION L0048242     VOLUME   543688.587 3755805.163 297.59
LOCATION L0048243     VOLUME   543688.598 3755808.820 297.66
LOCATION L0048244     VOLUME   543688.609 3755812.478 297.73
LOCATION L0048245     VOLUME   543688.620 3755816.135 297.81
LOCATION L0048246     VOLUME   543688.631 3755819.793 297.88
LOCATION L0048247     VOLUME   543688.642 3755823.451 297.95
LOCATION L0048248     VOLUME   543688.654 3755827.108 298.03
LOCATION L0048249     VOLUME   543688.665 3755830.766 298.10
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LOCATION L0048250     VOLUME   543688.676 3755834.423 298.17
LOCATION L0048251     VOLUME   543688.687 3755838.081 298.25
LOCATION L0048252     VOLUME   543688.698 3755841.738 298.32
LOCATION L0048253     VOLUME   543688.709 3755845.396 298.39
LOCATION L0048254     VOLUME   543688.720 3755849.054 298.47
LOCATION L0048255     VOLUME   543688.731 3755852.711 298.54
LOCATION L0048256     VOLUME   543688.742 3755856.369 298.61
LOCATION L0048257     VOLUME   543688.753 3755860.026 298.69
LOCATION L0048258     VOLUME   543688.764 3755863.684 298.76
LOCATION L0048259     VOLUME   543688.776 3755867.341 298.84
LOCATION L0048260     VOLUME   543688.787 3755870.999 298.91
LOCATION L0048261     VOLUME   543688.798 3755874.657 298.99
LOCATION L0048262     VOLUME   543688.809 3755878.314 299.06
LOCATION L0048263     VOLUME   543688.820 3755881.972 299.14
LOCATION L0048264     VOLUME   543688.831 3755885.629 299.22
LOCATION L0048265     VOLUME   543688.842 3755889.287 299.29
LOCATION L0048266     VOLUME   543688.853 3755892.945 299.37
LOCATION L0048267     VOLUME   543688.864 3755896.602 299.45
LOCATION L0048268     VOLUME   543688.875 3755900.260 299.52
LOCATION L0048269     VOLUME   543688.887 3755903.917 299.59
LOCATION L0048270     VOLUME   543688.898 3755907.575 299.66
LOCATION L0048271     VOLUME   543688.909 3755911.232 299.73
LOCATION L0048272     VOLUME   543688.920 3755914.890 299.80
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LOCATION L0048274     VOLUME   543688.942 3755922.205 299.95
LOCATION L0048275     VOLUME   543688.953 3755925.863 300.02
LOCATION L0048276     VOLUME   543688.964 3755929.520 300.09
LOCATION L0048277     VOLUME   543688.975 3755933.178 300.16
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LOCATION L0048280     VOLUME   543689.009 3755944.151 300.37
LOCATION L0048281     VOLUME   543689.020 3755947.808 300.43
LOCATION L0048282     VOLUME   543689.031 3755951.466 300.50
LOCATION L0048283     VOLUME   543689.042 3755955.123 300.57
LOCATION L0048284     VOLUME   543689.053 3755958.781 300.64
LOCATION L0048285     VOLUME   543689.064 3755962.439 300.70
LOCATION L0048286     VOLUME   543689.075 3755966.096 300.77
LOCATION L0048287     VOLUME   543689.086 3755969.754 300.83
LOCATION L0048288     VOLUME   543689.097 3755973.411 300.89
LOCATION L0048289     VOLUME   543689.108 3755977.069 300.96
LOCATION L0048290     VOLUME   543689.120 3755980.727 301.02
LOCATION L0048291     VOLUME   543689.131 3755984.384 301.08
LOCATION L0048292     VOLUME   543689.142 3755988.042 301.15
LOCATION L0048293     VOLUME   543689.153 3755991.699 301.22
LOCATION L0048294     VOLUME   543689.164 3755995.357 301.28
LOCATION L0048295     VOLUME   543689.175 3755999.014 301.35
LOCATION L0048296     VOLUME   543689.186 3756002.672 301.42
LOCATION L0048297     VOLUME   543689.197 3756006.330 301.49
LOCATION L0048298     VOLUME   543689.208 3756009.987 301.56
LOCATION L0048299     VOLUME   543689.219 3756013.645 301.63
LOCATION L0048300     VOLUME   543689.230 3756017.302 301.70
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LOCATION L0048303     VOLUME   543689.264 3756028.275 301.90
LOCATION L0048304     VOLUME   543689.275 3756031.933 301.96
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LOCATION L0048306     VOLUME   543689.297 3756039.248 302.09
LOCATION L0048307     VOLUME   543689.308 3756042.905 302.16
LOCATION L0048308     VOLUME   543689.319 3756046.563 302.22
LOCATION L0048309     VOLUME   543689.330 3756050.221 302.29
LOCATION L0048310     VOLUME   543689.341 3756053.878 302.36
LOCATION L0048311     VOLUME   543689.353 3756057.536 302.43
LOCATION L0048312     VOLUME   543689.364 3756061.193 302.50
LOCATION L0048313     VOLUME   543689.375 3756064.851 302.58
LOCATION L0048314     VOLUME   543689.386 3756068.509 302.65
LOCATION L0048315     VOLUME   543689.397 3756072.166 302.72
LOCATION L0048316     VOLUME   543689.408 3756075.824 302.79
LOCATION L0048317     VOLUME   543689.419 3756079.481 302.87
LOCATION L0048318     VOLUME   543689.430 3756083.139 302.94
LOCATION L0048319     VOLUME   543689.441 3756086.796 303.01
LOCATION L0048320     VOLUME   543689.452 3756090.454 303.07
LOCATION L0048321     VOLUME   543689.463 3756094.112 303.14
LOCATION L0048322     VOLUME   543689.475 3756097.769 303.21
LOCATION L0048323     VOLUME   543689.486 3756101.427 303.28
LOCATION L0048324     VOLUME   543689.497 3756105.084 303.35
LOCATION L0048325     VOLUME   543689.508 3756108.742 303.41
LOCATION L0048326     VOLUME   543689.519 3756112.400 303.48
LOCATION L0048327     VOLUME   543689.530 3756116.057 303.56
LOCATION L0048328     VOLUME   543689.541 3756119.715 303.64
LOCATION L0048329     VOLUME   543689.552 3756123.372 303.72
LOCATION L0048330     VOLUME   543689.563 3756127.030 303.80
LOCATION L0048331     VOLUME   543689.574 3756130.687 303.87
LOCATION L0048332     VOLUME   543689.586 3756134.345 303.95
LOCATION L0048333     VOLUME   543689.597 3756138.003 304.03
LOCATION L0048334     VOLUME   543689.608 3756141.660 304.11
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LOCATION L0048337     VOLUME   543689.641 3756152.633 304.30
LOCATION L0048338     VOLUME   543689.652 3756156.291 304.36
LOCATION L0048339     VOLUME   543689.663 3756159.948 304.42
LOCATION L0048340     VOLUME   543689.674 3756163.606 304.48
LOCATION L0048341     VOLUME   543689.685 3756167.263 304.54
LOCATION L0048342     VOLUME   543689.696 3756170.921 304.60
LOCATION L0048343     VOLUME   543689.708 3756174.578 304.67
LOCATION L0048344     VOLUME   543689.719 3756178.236 304.73
LOCATION L0048345     VOLUME   543689.730 3756181.894 304.80
LOCATION L0048346     VOLUME   543689.741 3756185.551 304.87
LOCATION L0048347     VOLUME   543689.752 3756189.209 304.93
LOCATION L0048348     VOLUME   543689.763 3756192.866 305.00
LOCATION L0048349     VOLUME   543689.774 3756196.524 305.07
LOCATION L0048350     VOLUME   543689.785 3756200.182 305.13
LOCATION L0048351     VOLUME   543689.796 3756203.839 305.20
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   LOCATION L0048354     VOLUME   543689.830 3756214.812 305.36
   LOCATION L0048355     VOLUME   543689.841 3756218.469 305.41
   LOCATION L0048356     VOLUME   543689.852 3756222.127 305.47
   LOCATION L0048357     VOLUME   543689.863 3756225.785 305.52
   LOCATION L0048358     VOLUME   543689.874 3756229.442 305.57
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   LOCATION L0048360     VOLUME   543689.896 3756236.757 305.67
   LOCATION L0048361     VOLUME   543689.907 3756240.415 305.72
   LOCATION L0048362     VOLUME   543689.918 3756244.073 305.77
   LOCATION L0048363     VOLUME   543689.929 3756247.730 305.82
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   LOCATION L0048365     VOLUME   543689.952 3756255.045 305.92
   LOCATION L0048366     VOLUME   543689.963 3756258.703 305.97
   LOCATION L0048367     VOLUME   543689.974 3756262.360 306.02
   LOCATION L0048368     VOLUME   543689.985 3756266.018 306.07
   LOCATION L0048369     VOLUME   543689.996 3756269.676 306.14
   LOCATION L0048370     VOLUME   543690.007 3756273.333 306.21
   LOCATION L0048371     VOLUME   543690.018 3756276.991 306.27
   LOCATION L0048372     VOLUME   543690.029 3756280.648 306.34
   LOCATION L0048373     VOLUME   543690.040 3756284.306 306.41
   LOCATION L0048374     VOLUME   543690.051 3756287.964 306.48
   LOCATION L0048375     VOLUME   543690.063 3756291.621 306.55
   LOCATION L0048376     VOLUME   543690.074 3756295.279 306.62
   LOCATION L0048377     VOLUME   543690.085 3756298.936 306.68
   LOCATION L0048378     VOLUME   543690.096 3756302.594 306.72
   LOCATION L0048379     VOLUME   543690.107 3756306.251 306.77
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   LOCATION L0048382     VOLUME   543690.140 3756317.224 306.92
   LOCATION L0048383     VOLUME   543690.151 3756320.882 306.97
   LOCATION L0048384     VOLUME   543690.162 3756324.539 307.02
   LOCATION L0048385     VOLUME   543690.174 3756328.197 307.07
   LOCATION L0048386     VOLUME   543690.185 3756331.855 307.14
   LOCATION L0048387     VOLUME   543690.196 3756335.512 307.21
   LOCATION L0048388     VOLUME   543690.207 3756339.170 307.27
   LOCATION L0048389     VOLUME   543690.218 3756342.827 307.34
   LOCATION L0048390     VOLUME   543690.229 3756346.485 307.40
   LOCATION L0048391     VOLUME   543690.240 3756350.142 307.47
   LOCATION L0048392     VOLUME   543690.251 3756353.800 307.53
   LOCATION L0048393     VOLUME   543690.262 3756357.458 307.60
   LOCATION L0048394     VOLUME   543690.273 3756361.115 307.67
** End of LINE VOLUME Source ID = SLINE14
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE15
** DESCRSRC 2 Bunch Palms Trail - Little Morongo to Palm
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
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** Emission Rate = 0.0000135
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 4
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** 544983.680, 3756374.383, 296.81, 0.00, 1.70
** 545634.390, 3756368.910, 291.46, 0.00, 1.70
** 546082.496, 3756373.987, 285.84, 0.00, 1.70
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   LOCATION L0048397     VOLUME   543703.545 3756365.726 307.65
   LOCATION L0048398     VOLUME   543707.202 3756365.751 307.65
   LOCATION L0048399     VOLUME   543710.860 3756365.776 307.65
   LOCATION L0048400     VOLUME   543714.517 3756365.801 307.64
   LOCATION L0048401     VOLUME   543718.175 3756365.825 307.64
   LOCATION L0048402     VOLUME   543721.832 3756365.850 307.64
   LOCATION L0048403     VOLUME   543725.490 3756365.875 307.64
   LOCATION L0048404     VOLUME   543729.147 3756365.900 307.61
   LOCATION L0048405     VOLUME   543732.805 3756365.924 307.59
   LOCATION L0048406     VOLUME   543736.462 3756365.949 307.57
   LOCATION L0048407     VOLUME   543740.120 3756365.974 307.55
   LOCATION L0048408     VOLUME   543743.777 3756365.998 307.53
   LOCATION L0048409     VOLUME   543747.435 3756366.023 307.50
   LOCATION L0048410     VOLUME   543751.092 3756366.048 307.48
   LOCATION L0048411     VOLUME   543754.750 3756366.073 307.45
   LOCATION L0048412     VOLUME   543758.407 3756366.097 307.42
   LOCATION L0048413     VOLUME   543762.065 3756366.122 307.39
   LOCATION L0048414     VOLUME   543765.722 3756366.147 307.37
   LOCATION L0048415     VOLUME   543769.380 3756366.172 307.34
   LOCATION L0048416     VOLUME   543773.038 3756366.196 307.31
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   LOCATION L0048418     VOLUME   543780.353 3756366.246 307.21
   LOCATION L0048419     VOLUME   543784.010 3756366.271 307.15
   LOCATION L0048420     VOLUME   543787.668 3756366.295 307.08
   LOCATION L0048421     VOLUME   543791.325 3756366.320 307.01
   LOCATION L0048422     VOLUME   543794.983 3756366.345 306.94
   LOCATION L0048423     VOLUME   543798.640 3756366.369 306.87
   LOCATION L0048424     VOLUME   543802.298 3756366.394 306.81
   LOCATION L0048425     VOLUME   543805.955 3756366.419 306.74
   LOCATION L0048426     VOLUME   543809.613 3756366.444 306.67
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   LOCATION L0048429     VOLUME   543820.585 3756366.518 306.47
   LOCATION L0048430     VOLUME   543824.243 3756366.543 306.40
   LOCATION L0048431     VOLUME   543827.900 3756366.567 306.34
   LOCATION L0048432     VOLUME   543831.558 3756366.592 306.30
   LOCATION L0048433     VOLUME   543835.215 3756366.617 306.27
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LOCATION L0048441     VOLUME   543864.475 3756366.815 306.16
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LOCATION L0048443     VOLUME   543871.790 3756366.864 306.19
LOCATION L0048444     VOLUME   543875.448 3756366.889 306.21
LOCATION L0048445     VOLUME   543879.105 3756366.914 306.23
LOCATION L0048446     VOLUME   543882.763 3756366.938 306.21
LOCATION L0048447     VOLUME   543886.421 3756366.963 306.19
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LOCATION L0048452     VOLUME   543904.708 3756367.087 306.09
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LOCATION L0048456     VOLUME   543919.338 3756367.186 305.96
LOCATION L0048457     VOLUME   543922.996 3756367.210 305.92
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LOCATION L0048469     VOLUME   543966.886 3756367.507 305.53
LOCATION L0048470     VOLUME   543970.543 3756367.532 305.49
LOCATION L0048471     VOLUME   543974.201 3756367.557 305.46
LOCATION L0048472     VOLUME   543977.858 3756367.581 305.42
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LOCATION L0048484     VOLUME   544021.749 3756367.878 305.07
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LOCATION L0048486     VOLUME   544029.064 3756367.928 305.01
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LOCATION L0048504     VOLUME   544094.899 3756368.373 304.57
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LOCATION L0048506     VOLUME   544102.214 3756368.422 304.52
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LOCATION L0048588     VOLUME   544402.130 3756370.451 300.18
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LOCATION L0048594     VOLUME   544424.075 3756370.599 300.35
LOCATION L0048595     VOLUME   544427.733 3756370.624 300.31
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LOCATION L0048618     VOLUME   544511.856 3756371.193 300.86
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LOCATION L0048622     VOLUME   544526.486 3756371.291 301.54
LOCATION L0048623     VOLUME   544530.143 3756371.316 301.51
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LOCATION L0048637     VOLUME   544581.349 3756371.662 300.86
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LOCATION L0048639     VOLUME   544588.664 3756371.712 300.75
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LOCATION L0048643     VOLUME   544603.294 3756371.811 300.51
LOCATION L0048644     VOLUME   544606.951 3756371.836 300.44
LOCATION L0048645     VOLUME   544610.609 3756371.860 300.37
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LOCATION L0048648     VOLUME   544621.581 3756371.935 300.17
LOCATION L0048649     VOLUME   544625.239 3756371.959 300.10
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LOCATION L0048661     VOLUME   544669.129 3756372.256 299.43
LOCATION L0048662     VOLUME   544672.787 3756372.281 299.40
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LOCATION L0048672     VOLUME   544709.362 3756372.528 299.19
LOCATION L0048673     VOLUME   544713.019 3756372.553 299.17
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LOCATION L0048681     VOLUME   544742.279 3756372.751 298.99
LOCATION L0048682     VOLUME   544745.937 3756372.776 298.96
LOCATION L0048683     VOLUME   544749.594 3756372.800 298.94
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LOCATION L0048685     VOLUME   544756.909 3756372.850 298.88
LOCATION L0048686     VOLUME   544760.567 3756372.874 298.85
LOCATION L0048687     VOLUME   544764.224 3756372.899 298.83
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LOCATION L0049005     VOLUME   545927.294 3756372.228 288.02
LOCATION L0049006     VOLUME   545930.952 3756372.270 288.00
LOCATION L0049007     VOLUME   545934.609 3756372.311 287.97
LOCATION L0049008     VOLUME   545938.267 3756372.353 287.93
LOCATION L0049009     VOLUME   545941.924 3756372.394 287.89
LOCATION L0049010     VOLUME   545945.581 3756372.436 287.85
LOCATION L0049011     VOLUME   545949.239 3756372.477 287.82
LOCATION L0049012     VOLUME   545952.896 3756372.518 287.78
LOCATION L0049013     VOLUME   545956.553 3756372.560 287.74
LOCATION L0049014     VOLUME   545960.211 3756372.601 287.70
LOCATION L0049015     VOLUME   545963.868 3756372.643 287.65
LOCATION L0049016     VOLUME   545967.525 3756372.684 287.60
LOCATION L0049017     VOLUME   545971.183 3756372.726 287.56
LOCATION L0049018     VOLUME   545974.840 3756372.767 287.51
LOCATION L0049019     VOLUME   545978.498 3756372.809 287.46
LOCATION L0049020     VOLUME   545982.155 3756372.850 287.41
LOCATION L0049021     VOLUME   545985.812 3756372.891 287.36
LOCATION L0049022     VOLUME   545989.470 3756372.933 287.30
LOCATION L0049023     VOLUME   545993.127 3756372.974 287.24
LOCATION L0049024     VOLUME   545996.784 3756373.016 287.19
LOCATION L0049025     VOLUME   546000.442 3756373.057 287.13
LOCATION L0049026     VOLUME   546004.099 3756373.099 287.07
LOCATION L0049027     VOLUME   546007.756 3756373.140 287.01
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LOCATION L0049029     VOLUME   546015.071 3756373.223 286.90
LOCATION L0049030     VOLUME   546018.729 3756373.264 286.85
LOCATION L0049031     VOLUME   546022.386 3756373.306 286.80
LOCATION L0049032     VOLUME   546026.043 3756373.347 286.75
LOCATION L0049033     VOLUME   546029.701 3756373.389 286.70
LOCATION L0049034     VOLUME   546033.358 3756373.430 286.65
LOCATION L0049035     VOLUME   546037.015 3756373.471 286.60
LOCATION L0049036     VOLUME   546040.673 3756373.513 286.55
LOCATION L0049037     VOLUME   546044.330 3756373.554 286.50
LOCATION L0049038     VOLUME   546047.987 3756373.596 286.45
LOCATION L0049039     VOLUME   546051.645 3756373.637 286.40
LOCATION L0049040     VOLUME   546055.302 3756373.679 286.35
LOCATION L0049041     VOLUME   546058.960 3756373.720 286.30
LOCATION L0049042     VOLUME   546062.617 3756373.761 286.25
LOCATION L0049043     VOLUME   546066.274 3756373.803 286.19
LOCATION L0049044     VOLUME   546069.932 3756373.844 286.14
LOCATION L0049045     VOLUME   546073.589 3756373.886 286.09
LOCATION L0049046     VOLUME   546077.246 3756373.927 286.04
LOCATION L0049047     VOLUME   546080.904 3756373.969 285.99
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** End of LINE VOLUME Source ID = SLINE15
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE16
** DESCRSRC Little Morongo - North 2 Bunch Trails
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 5.41E-06
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
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** 543678.747, 3757263.016, 325.23, 0.00, 1.70
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   LOCATION L0049052     VOLUME   543688.216 3756384.849 308.14
   LOCATION L0049053     VOLUME   543688.176 3756388.507 308.21
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   LOCATION L0049059     VOLUME   543687.940 3756410.451 308.75
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   LOCATION L0049061     VOLUME   543687.861 3756417.766 308.93
   LOCATION L0049062     VOLUME   543687.821 3756421.423 309.02
   LOCATION L0049063     VOLUME   543687.782 3756425.081 309.11
   LOCATION L0049064     VOLUME   543687.742 3756428.738 309.20
   LOCATION L0049065     VOLUME   543687.703 3756432.395 309.28
   LOCATION L0049066     VOLUME   543687.664 3756436.053 309.37
   LOCATION L0049067     VOLUME   543687.624 3756439.710 309.46
   LOCATION L0049068     VOLUME   543687.585 3756443.368 309.55
   LOCATION L0049069     VOLUME   543687.545 3756447.025 309.63
   LOCATION L0049070     VOLUME   543687.506 3756450.682 309.72
   LOCATION L0049071     VOLUME   543687.466 3756454.340 309.79
   LOCATION L0049072     VOLUME   543687.427 3756457.997 309.85
   LOCATION L0049073     VOLUME   543687.388 3756461.655 309.91
   LOCATION L0049074     VOLUME   543687.348 3756465.312 309.97
   LOCATION L0049075     VOLUME   543687.309 3756468.969 310.03
   LOCATION L0049076     VOLUME   543687.269 3756472.627 310.09
   LOCATION L0049077     VOLUME   543687.230 3756476.284 310.15
   LOCATION L0049078     VOLUME   543687.190 3756479.942 310.21
   LOCATION L0049079     VOLUME   543687.151 3756483.599 310.27
   LOCATION L0049080     VOLUME   543687.112 3756487.256 310.33
   LOCATION L0049081     VOLUME   543687.072 3756490.914 310.38
   LOCATION L0049082     VOLUME   543687.033 3756494.571 310.44
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LOCATION L0049085     VOLUME   543686.914 3756505.543 310.60
LOCATION L0049086     VOLUME   543686.875 3756509.201 310.66
LOCATION L0049087     VOLUME   543686.835 3756512.858 310.71
LOCATION L0049088     VOLUME   543686.796 3756516.515 310.76
LOCATION L0049089     VOLUME   543686.757 3756520.173 310.81
LOCATION L0049090     VOLUME   543686.717 3756523.830 310.86
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LOCATION L0049096     VOLUME   543686.481 3756545.774 311.15
LOCATION L0049097     VOLUME   543686.441 3756549.432 311.20
LOCATION L0049098     VOLUME   543686.402 3756553.089 311.25
LOCATION L0049099     VOLUME   543686.362 3756556.747 311.30
LOCATION L0049100     VOLUME   543686.323 3756560.404 311.35
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LOCATION L0049102     VOLUME   543686.244 3756567.719 311.45
LOCATION L0049103     VOLUME   543686.205 3756571.376 311.50
LOCATION L0049104     VOLUME   543686.165 3756575.034 311.55
LOCATION L0049105     VOLUME   543686.126 3756578.691 311.60
LOCATION L0049106     VOLUME   543686.086 3756582.348 311.65
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LOCATION L0049115     VOLUME   543685.731 3756615.265 312.14
LOCATION L0049116     VOLUME   543685.692 3756618.922 312.20
LOCATION L0049117     VOLUME   543685.652 3756622.580 312.27
LOCATION L0049118     VOLUME   543685.613 3756626.237 312.33
LOCATION L0049119     VOLUME   543685.574 3756629.894 312.39
LOCATION L0049120     VOLUME   543685.534 3756633.552 312.45
LOCATION L0049121     VOLUME   543685.495 3756637.209 312.51
LOCATION L0049122     VOLUME   543685.455 3756640.867 312.58
LOCATION L0049123     VOLUME   543685.416 3756644.524 312.64
LOCATION L0049124     VOLUME   543685.376 3756648.181 312.70
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LOCATION L0049126     VOLUME   543685.298 3756655.496 312.83
LOCATION L0049127     VOLUME   543685.258 3756659.153 312.89
LOCATION L0049128     VOLUME   543685.219 3756662.811 312.95
LOCATION L0049129     VOLUME   543685.179 3756666.468 313.01
LOCATION L0049130     VOLUME   543685.140 3756670.126 313.09
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LOCATION L0049132     VOLUME   543685.061 3756677.440 313.24
LOCATION L0049133     VOLUME   543685.021 3756681.098 313.31
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LOCATION L0049135     VOLUME   543684.943 3756688.413 313.46
LOCATION L0049136     VOLUME   543684.903 3756692.070 313.53
LOCATION L0049137     VOLUME   543684.864 3756695.727 313.61
LOCATION L0049138     VOLUME   543684.824 3756699.385 313.69
LOCATION L0049139     VOLUME   543684.785 3756703.042 313.76
LOCATION L0049140     VOLUME   543684.745 3756706.700 313.84
LOCATION L0049141     VOLUME   543684.706 3756710.357 313.92
LOCATION L0049142     VOLUME   543684.667 3756714.014 314.00
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LOCATION L0049145     VOLUME   543684.548 3756724.986 314.24
LOCATION L0049146     VOLUME   543684.509 3756728.644 314.32
LOCATION L0049147     VOLUME   543684.469 3756732.301 314.39
LOCATION L0049148     VOLUME   543684.430 3756735.959 314.47
LOCATION L0049149     VOLUME   543684.391 3756739.616 314.54
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LOCATION L0049160     VOLUME   543683.957 3756779.847 315.38
LOCATION L0049161     VOLUME   543683.917 3756783.505 315.45
LOCATION L0049162     VOLUME   543683.878 3756787.162 315.53
LOCATION L0049163     VOLUME   543683.838 3756790.819 315.60
LOCATION L0049164     VOLUME   543683.799 3756794.477 315.67
LOCATION L0049165     VOLUME   543683.760 3756798.134 315.73
LOCATION L0049166     VOLUME   543683.720 3756801.792 315.80
LOCATION L0049167     VOLUME   543683.681 3756805.449 315.87
LOCATION L0049168     VOLUME   543683.641 3756809.106 315.94
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LOCATION L0049171     VOLUME   543683.523 3756820.079 316.14
LOCATION L0049172     VOLUME   543683.484 3756823.736 316.20
LOCATION L0049173     VOLUME   543683.444 3756827.393 316.26
LOCATION L0049174     VOLUME   543683.405 3756831.051 316.32
LOCATION L0049175     VOLUME   543683.365 3756834.708 316.39
LOCATION L0049176     VOLUME   543683.326 3756838.365 316.45
LOCATION L0049177     VOLUME   543683.286 3756842.023 316.51
LOCATION L0049178     VOLUME   543683.247 3756845.680 316.57
LOCATION L0049179     VOLUME   543683.207 3756849.338 316.63
LOCATION L0049180     VOLUME   543683.168 3756852.995 316.69
LOCATION L0049181     VOLUME   543683.129 3756856.652 316.76
LOCATION L0049182     VOLUME   543683.089 3756860.310 316.83
LOCATION L0049183     VOLUME   543683.050 3756863.967 316.89
LOCATION L0049184     VOLUME   543683.010 3756867.625 316.96
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LOCATION L0049186     VOLUME   543682.931 3756874.939 317.10
LOCATION L0049187     VOLUME   543682.892 3756878.597 317.16
LOCATION L0049188     VOLUME   543682.853 3756882.254 317.23
LOCATION L0049189     VOLUME   543682.813 3756885.912 317.30
LOCATION L0049190     VOLUME   543682.774 3756889.569 317.37
LOCATION L0049191     VOLUME   543682.734 3756893.226 317.44
LOCATION L0049192     VOLUME   543682.695 3756896.884 317.52
LOCATION L0049193     VOLUME   543682.655 3756900.541 317.59
LOCATION L0049194     VOLUME   543682.616 3756904.198 317.66
LOCATION L0049195     VOLUME   543682.577 3756907.856 317.73
LOCATION L0049196     VOLUME   543682.537 3756911.513 317.80
LOCATION L0049197     VOLUME   543682.498 3756915.171 317.88
LOCATION L0049198     VOLUME   543682.458 3756918.828 317.95
LOCATION L0049199     VOLUME   543682.419 3756922.485 318.03
LOCATION L0049200     VOLUME   543682.379 3756926.143 318.10
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LOCATION L0049206     VOLUME   543682.143 3756948.087 318.56
LOCATION L0049207     VOLUME   543682.103 3756951.744 318.64
LOCATION L0049208     VOLUME   543682.064 3756955.402 318.71
LOCATION L0049209     VOLUME   543682.024 3756959.059 318.79
LOCATION L0049210     VOLUME   543681.985 3756962.717 318.87
LOCATION L0049211     VOLUME   543681.946 3756966.374 318.95
LOCATION L0049212     VOLUME   543681.906 3756970.031 319.03
LOCATION L0049213     VOLUME   543681.867 3756973.689 319.10
LOCATION L0049214     VOLUME   543681.827 3756977.346 319.18
LOCATION L0049215     VOLUME   543681.788 3756981.004 319.25
LOCATION L0049216     VOLUME   543681.748 3756984.661 319.33
LOCATION L0049217     VOLUME   543681.709 3756988.318 319.40
LOCATION L0049218     VOLUME   543681.670 3756991.976 319.47
LOCATION L0049219     VOLUME   543681.630 3756995.633 319.55
LOCATION L0049220     VOLUME   543681.591 3756999.291 319.62
LOCATION L0049221     VOLUME   543681.551 3757002.948 319.70
LOCATION L0049222     VOLUME   543681.512 3757006.605 319.77
LOCATION L0049223     VOLUME   543681.472 3757010.263 319.85
LOCATION L0049224     VOLUME   543681.433 3757013.920 319.93
LOCATION L0049225     VOLUME   543681.393 3757017.577 320.01
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LOCATION L0049227     VOLUME   543681.315 3757024.892 320.17
LOCATION L0049228     VOLUME   543681.275 3757028.550 320.25
LOCATION L0049229     VOLUME   543681.236 3757032.207 320.33
LOCATION L0049230     VOLUME   543681.196 3757035.864 320.41
LOCATION L0049231     VOLUME   543681.157 3757039.522 320.51
LOCATION L0049232     VOLUME   543681.117 3757043.179 320.61
LOCATION L0049233     VOLUME   543681.078 3757046.837 320.71
LOCATION L0049234     VOLUME   543681.039 3757050.494 320.82
LOCATION L0049235     VOLUME   543680.999 3757054.151 320.92
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LOCATION L0049238     VOLUME   543680.881 3757065.124 321.23
LOCATION L0049239     VOLUME   543680.841 3757068.781 321.33
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LOCATION L0049242     VOLUME   543680.723 3757079.753 321.60
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LOCATION L0049245     VOLUME   543680.605 3757090.725 321.88
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LOCATION L0049254     VOLUME   543680.250 3757123.642 322.74
LOCATION L0049255     VOLUME   543680.210 3757127.299 322.84
LOCATION L0049256     VOLUME   543680.171 3757130.956 322.92
LOCATION L0049257     VOLUME   543680.132 3757134.614 323.00
LOCATION L0049258     VOLUME   543680.092 3757138.271 323.08
LOCATION L0049259     VOLUME   543680.053 3757141.929 323.16
LOCATION L0049260     VOLUME   543680.013 3757145.586 323.23
LOCATION L0049261     VOLUME   543679.974 3757149.243 323.31
LOCATION L0049262     VOLUME   543679.934 3757152.901 323.39
LOCATION L0049263     VOLUME   543679.895 3757156.558 323.47
LOCATION L0049264     VOLUME   543679.856 3757160.216 323.54
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LOCATION L0049268     VOLUME   543679.698 3757174.845 323.82
LOCATION L0049269     VOLUME   543679.658 3757178.503 323.89
LOCATION L0049270     VOLUME   543679.619 3757182.160 323.95
LOCATION L0049271     VOLUME   543679.580 3757185.817 324.02
LOCATION L0049272     VOLUME   543679.540 3757189.475 324.09
LOCATION L0049273     VOLUME   543679.501 3757193.132 324.15
LOCATION L0049274     VOLUME   543679.461 3757196.789 324.21
LOCATION L0049275     VOLUME   543679.422 3757200.447 324.27
LOCATION L0049276     VOLUME   543679.382 3757204.104 324.33
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LOCATION L0049278     VOLUME   543679.303 3757211.419 324.45
LOCATION L0049279     VOLUME   543679.264 3757215.076 324.51
LOCATION L0049280     VOLUME   543679.225 3757218.734 324.57
LOCATION L0049281     VOLUME   543679.185 3757222.391 324.64
LOCATION L0049282     VOLUME   543679.146 3757226.049 324.70
LOCATION L0049283     VOLUME   543679.106 3757229.706 324.77
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LOCATION L0049285     VOLUME   543679.027 3757237.021 324.90
LOCATION L0049286     VOLUME   543678.988 3757240.678 324.96
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   LOCATION L0049288     VOLUME   543678.909 3757247.993 325.10
   LOCATION L0049289     VOLUME   543678.870 3757251.650 325.16
   LOCATION L0049290     VOLUME   543678.830 3757255.308 325.24
   LOCATION L0049291     VOLUME   543678.791 3757258.965 325.32
   LOCATION L0049292     VOLUME   543678.751 3757262.622 325.40
** End of LINE VOLUME Source ID = SLINE16
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE17
** DESCRSRC Dillon Road - Little Morongo to Palm
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.000027
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
** 543674.224, 3753932.208, 262.40, 0.00, 1.70
** 546058.347, 3753939.267, 251.79, 0.00, 1.70
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   LOCATION L0049295     VOLUME   543683.368 3753932.235 262.42
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LOCATION L0049924     VOLUME   545983.988 3753939.047 252.20
LOCATION L0049925     VOLUME   545987.646 3753939.058 252.16
LOCATION L0049926     VOLUME   545991.304 3753939.069 252.12
LOCATION L0049927     VOLUME   545994.961 3753939.079 252.08
LOCATION L0049928     VOLUME   545998.619 3753939.090 252.06
LOCATION L0049929     VOLUME   546002.276 3753939.101 252.05
LOCATION L0049930     VOLUME   546005.934 3753939.112 252.04
LOCATION L0049931     VOLUME   546009.591 3753939.123 252.03
LOCATION L0049932     VOLUME   546013.249 3753939.134 252.02
LOCATION L0049933     VOLUME   546016.907 3753939.144 252.01
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   LOCATION L0049934     VOLUME   546020.564 3753939.155 252.00
   LOCATION L0049935     VOLUME   546024.222 3753939.166 251.99
   LOCATION L0049936     VOLUME   546027.879 3753939.177 251.97
   LOCATION L0049937     VOLUME   546031.537 3753939.188 251.95
   LOCATION L0049938     VOLUME   546035.195 3753939.199 251.94
   LOCATION L0049939     VOLUME   546038.852 3753939.209 251.92
   LOCATION L0049940     VOLUME   546042.510 3753939.220 251.91
   LOCATION L0049941     VOLUME   546046.167 3753939.231 251.89
   LOCATION L0049942     VOLUME   546049.825 3753939.242 251.88
   LOCATION L0049943     VOLUME   546053.482 3753939.253 251.87
   LOCATION L0049944     VOLUME   546057.140 3753939.264 251.86
** End of LINE VOLUME Source ID = SLINE17
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0046098     0.0000001384      0.00      1.70      0.76
   SRCPARAM L0046099     0.0000001384      0.00      1.70      0.76
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   SRCPARAM L0046110     0.0000001384      0.00      1.70      0.76
   SRCPARAM L0046111     0.0000001384      0.00      1.70      0.76
   SRCPARAM L0046112     0.0000001384      0.00      1.70      0.76
   SRCPARAM L0046113     0.0000001384      0.00      1.70      0.76
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   SRCPARAM L0046115     0.0000001384      0.00      1.70      0.76
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   SRCPARAM L0046128     0.0000001384      0.00      1.70      0.76
   SRCPARAM L0046129     0.0000001384      0.00      1.70      0.76
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   SRCPARAM L0046131     0.0000001384      0.00      1.70      0.76
   SRCPARAM L0046132     0.0000001384      0.00      1.70      0.76
   SRCPARAM L0046133     0.0000001384      0.00      1.70      0.76
   SRCPARAM L0046134     0.0000001384      0.00      1.70      0.76
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SRCPARAM L0046140     0.0000001384      0.00      1.70      0.76
SRCPARAM L0046141     0.0000001384      0.00      1.70      0.76
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SRCPARAM L0046147     0.0000001384      0.00      1.70      0.76
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SRCPARAM L0046149     0.0000001384      0.00      1.70      0.76
SRCPARAM L0046150     0.0000001384      0.00      1.70      0.76
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SRCPARAM L0046169     0.0000001384      0.00      1.70      0.76
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SRCPARAM L0046173     0.0000001384      0.00      1.70      0.76
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SRCPARAM L0046182     0.0000001384      0.00      1.70      0.76
SRCPARAM L0046183     0.0000001384      0.00      1.70      0.76
SRCPARAM L0046184     0.0000001384      0.00      1.70      0.76
SRCPARAM L0046185     0.0000001384      0.00      1.70      0.76
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SRCPARAM L0046191     0.0000001384      0.00      1.70      0.76
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SRCPARAM L0046235     0.0000001384      0.00      1.70      0.76
SRCPARAM L0046236     0.0000001384      0.00      1.70      0.76
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SRCPARAM L0046253     0.0000001384      0.00      1.70      0.76
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SRCPARAM L0046260     0.0000001384      0.00      1.70      0.76
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SRCPARAM L0046262     0.0000001384      0.00      1.70      0.76
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SRCPARAM L0046273     0.0000001384      0.00      1.70      0.76
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SRCPARAM L0046282     0.0000001384      0.00      1.70      0.76
SRCPARAM L0046283     0.0000001384      0.00      1.70      0.76
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SRCPARAM L0046285     0.0000001384      0.00      1.70      0.76
SRCPARAM L0046286     0.0000001384      0.00      1.70      0.76
SRCPARAM L0046287     0.0000001384      0.00      1.70      0.76
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   SRCPARAM STCK1         0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK2         0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK3         0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK4         0.000015     3.658   366.000  51.90000     0.100
** LINE VOLUME Source ID = SLINE3
   SRCPARAM L0046288     0.000000135      0.00      1.70      0.76
   SRCPARAM L0046289     0.000000135      0.00      1.70      0.76
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   SRCPARAM L0046294     0.000000135      0.00      1.70      0.76
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   SRCPARAM L0046302     0.000000135      0.00      1.70      0.76
   SRCPARAM L0046303     0.000000135      0.00      1.70      0.76
   SRCPARAM L0046304     0.000000135      0.00      1.70      0.76
   SRCPARAM L0046305     0.000000135      0.00      1.70      0.76
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   SRCPARAM L0046307     0.000000135      0.00      1.70      0.76
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   SRCPARAM L0046309     0.000000135      0.00      1.70      0.76
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   SRCPARAM L0046311     0.000000135      0.00      1.70      0.76
   SRCPARAM L0046312     0.000000135      0.00      1.70      0.76
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   SRCPARAM L0046332     0.000000135      0.00      1.70      0.76
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SRCPARAM L0046339     0.000000135      0.00      1.70      0.76
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SRCPARAM L0046341     0.000000135      0.00      1.70      0.76
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SRCPARAM L0046347     0.000000135      0.00      1.70      0.76
SRCPARAM L0046348     0.000000135      0.00      1.70      0.76
SRCPARAM L0046349     0.000000135      0.00      1.70      0.76
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SRCPARAM L0046383     0.000000135      0.00      1.70      0.76
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SRCPARAM L0046434     0.000000135      0.00      1.70      0.76
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   SRCPARAM L0046534     0.0000001353      0.00      1.70      0.76
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SRCPARAM L0047516     0.00000005391      0.00      1.70      0.76
SRCPARAM L0047517     0.00000005391      0.00      1.70      0.76
SRCPARAM L0047518     0.00000005391      0.00      1.70      0.76
SRCPARAM L0047519     0.00000005391      0.00      1.70      0.76
SRCPARAM L0047520     0.00000005391      0.00      1.70      0.76
SRCPARAM L0047521     0.00000005391      0.00      1.70      0.76
SRCPARAM L0047522     0.00000005391      0.00      1.70      0.76
SRCPARAM L0047523     0.00000005391      0.00      1.70      0.76
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SRCPARAM L0047527     0.00000005391      0.00      1.70      0.76
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SRCPARAM L0047542     0.00000005391      0.00      1.70      0.76
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SRCPARAM L0047544     0.00000005391      0.00      1.70      0.76
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SRCPARAM L0047548     0.00000005391      0.00      1.70      0.76
SRCPARAM L0047549     0.00000005391      0.00      1.70      0.76
SRCPARAM L0047550     0.00000005391      0.00      1.70      0.76
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SRCPARAM L0047577     0.00000005391      0.00      1.70      0.76
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SRCPARAM L0047583     0.00000005391      0.00      1.70      0.76
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SRCPARAM L0047596     0.00000005391      0.00      1.70      0.76
SRCPARAM L0047597     0.00000005391      0.00      1.70      0.76
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SRCPARAM L0047614     0.00000005391      0.00      1.70      0.76
SRCPARAM L0047615     0.00000005391      0.00      1.70      0.76
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SRCPARAM L0047617     0.00000005391      0.00      1.70      0.76
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SRCPARAM L0047619     0.00000005391      0.00      1.70      0.76
SRCPARAM L0047620     0.00000005391      0.00      1.70      0.76
SRCPARAM L0047621     0.00000005391      0.00      1.70      0.76
SRCPARAM L0047622     0.00000005391      0.00      1.70      0.76
SRCPARAM L0047623     0.00000005391      0.00      1.70      0.76
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SRCPARAM L0047625     0.00000005391      0.00      1.70      0.76
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SRCPARAM L0047628     0.00000005391      0.00      1.70      0.76
SRCPARAM L0047629     0.00000005391      0.00      1.70      0.76
SRCPARAM L0047630     0.00000005391      0.00      1.70      0.76
SRCPARAM L0047631     0.00000005391      0.00      1.70      0.76
SRCPARAM L0047632     0.00000005391      0.00      1.70      0.76
SRCPARAM L0047633     0.00000005391      0.00      1.70      0.76
SRCPARAM L0047634     0.00000005391      0.00      1.70      0.76
SRCPARAM L0047635     0.00000005391      0.00      1.70      0.76
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SRCPARAM L0047650     0.00000005391      0.00      1.70      0.76
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SRCPARAM L0047652     0.00000005391      0.00      1.70      0.76
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   SRCPARAM L0047685     0.00000004282      0.00      1.70      0.76
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   SRCPARAM L0047687     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047688     0.00000004282      0.00      1.70      0.76
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   SRCPARAM L0047701     0.00000004282      0.00      1.70      0.76
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SRCPARAM L0047749     0.00000004282      0.00      1.70      0.76
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SRCPARAM L0047777     0.00000004282      0.00      1.70      0.76
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SRCPARAM L0047801     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047802     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047803     0.00000004282      0.00      1.70      0.76
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SRCPARAM L0047804     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047805     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047806     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047807     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047808     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047809     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047810     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047811     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047812     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047813     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047814     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047815     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047816     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047817     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047818     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047819     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047820     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047821     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047822     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047823     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047824     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047825     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047826     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047827     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047828     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047829     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047830     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047831     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047832     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047833     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047834     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047835     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047836     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047837     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047838     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047839     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047840     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047841     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047842     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047843     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047844     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047845     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047846     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047847     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047848     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047849     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047850     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047851     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047852     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047853     0.00000004282      0.00      1.70      0.76
SRCPARAM L0047854     0.00000004282      0.00      1.70      0.76
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   SRCPARAM L0047855     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047856     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047857     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047858     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047859     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047860     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047861     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047862     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047863     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047864     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047865     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047866     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047867     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047868     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047869     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047870     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047871     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047872     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047873     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047874     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047875     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047876     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047877     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047878     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047879     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047880     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047881     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047882     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047883     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047884     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047885     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047886     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047887     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047888     0.00000004282      0.00      1.70      0.76
   SRCPARAM L0047889     0.00000004282      0.00      1.70      0.76
** ------------------------------------------------------------------
   SRCPARAM STCK5          0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK6          0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK7          0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK8          0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK9          0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK10         0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK11         0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK12         0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK13         0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK14         0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK15         0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK16         0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK18         0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK19         0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK20         0.000015     3.658   366.000  51.90000     0.100
```

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   SRCPARAM STCK21        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK22        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK23        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK24        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK25        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK26        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK27        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK28        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK29        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK30        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK31        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK32        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK33        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK34        0.000015     3.658   366.000  51.90000     0.100
** LINE VOLUME Source ID = SLINE11
   SRCPARAM L0047890     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047891     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047892     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047893     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047894     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047895     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047896     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047897     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047898     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047899     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047900     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047901     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047902     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047903     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047904     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047905     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047906     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047907     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047908     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047909     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047910     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047911     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047912     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047913     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047914     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047915     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047916     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047917     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047918     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047919     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047920     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047921     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047922     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047923     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047924     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047925     0.0000000888      0.00      1.70      0.76
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SRCPARAM L0047926     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047927     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047928     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047929     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047930     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047931     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047932     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047933     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047934     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047935     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047936     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047937     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047938     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047939     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047940     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047941     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047942     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047943     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047944     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047945     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047946     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047947     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047948     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047949     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047950     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047951     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047952     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047953     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047954     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047955     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047956     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047957     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047958     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047959     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047960     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047961     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047962     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047963     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047964     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047965     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047966     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047967     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047968     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047969     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047970     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047971     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047972     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047973     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047974     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047975     0.0000000888      0.00      1.70      0.76
SRCPARAM L0047976     0.0000000888      0.00      1.70      0.76
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   SRCPARAM L0047977     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047978     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047979     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047980     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047981     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047982     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047983     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047984     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047985     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047986     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047987     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047988     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047989     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047990     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047991     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047992     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047993     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047994     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047995     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047996     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047997     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047998     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0047999     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0048000     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0048001     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0048002     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0048003     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0048004     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0048005     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0048006     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0048007     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0048008     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0048009     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0048010     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0048011     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0048012     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0048013     0.0000000888      0.00      1.70      0.76
   SRCPARAM L0048014     0.0000000888      0.00      1.70      0.76
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE12
   SRCPARAM L0048015     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048016     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048017     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048018     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048019     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048020     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048021     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048022     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048023     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048024     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048025     0.00000008873      0.00      1.70      0.76
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SRCPARAM L0048026     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048027     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048028     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048029     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048030     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048031     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048032     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048033     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048034     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048035     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048036     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048037     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048038     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048039     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048040     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048041     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048042     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048043     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048044     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048045     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048046     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048047     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048048     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048049     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048050     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048051     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048052     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048053     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048054     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048055     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048056     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048057     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048058     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048059     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048060     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048061     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048062     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048063     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048064     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048065     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048066     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048067     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048068     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048069     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048070     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048071     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048072     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048073     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048074     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048075     0.00000008873      0.00      1.70      0.76
SRCPARAM L0048076     0.00000008873      0.00      1.70      0.76
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   SRCPARAM L0048077     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048078     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048079     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048080     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048081     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048082     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048083     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048084     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048085     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048086     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048087     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048088     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048089     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048090     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048091     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048092     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048093     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048094     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048095     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048096     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048097     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048098     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048099     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048100     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048101     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048102     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048103     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048104     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048105     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048106     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048107     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048108     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048109     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048110     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048111     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048112     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048113     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048114     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048115     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048116     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048117     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048118     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048119     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048120     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048121     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048122     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048123     0.00000008873      0.00      1.70      0.76
   SRCPARAM L0048124     0.00000008873      0.00      1.70      0.76
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE13
   SRCPARAM L0048125     0.00000008859      0.00      1.70      0.76
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SRCPARAM L0048126     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048127     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048128     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048129     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048130     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048131     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048132     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048133     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048134     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048135     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048136     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048137     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048138     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048139     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048140     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048141     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048142     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048143     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048144     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048145     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048146     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048147     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048148     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048149     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048150     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048151     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048152     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048153     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048154     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048155     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048156     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048157     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048158     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048159     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048160     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048161     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048162     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048163     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048164     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048165     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048166     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048167     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048168     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048169     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048170     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048171     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048172     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048173     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048174     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048175     0.00000008859      0.00      1.70      0.76
SRCPARAM L0048176     0.00000008859      0.00      1.70      0.76
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   SRCPARAM L0048177     0.00000008859      0.00      1.70      0.76
   SRCPARAM L0048178     0.00000008859      0.00      1.70      0.76
   SRCPARAM L0048179     0.00000008859      0.00      1.70      0.76
   SRCPARAM L0048180     0.00000008859      0.00      1.70      0.76
   SRCPARAM L0048181     0.00000008859      0.00      1.70      0.76
   SRCPARAM L0048182     0.00000008859      0.00      1.70      0.76
   SRCPARAM L0048183     0.00000008859      0.00      1.70      0.76
   SRCPARAM L0048184     0.00000008859      0.00      1.70      0.76
   SRCPARAM L0048185     0.00000008859      0.00      1.70      0.76
   SRCPARAM L0048186     0.00000008859      0.00      1.70      0.76
   SRCPARAM L0048187     0.00000008859      0.00      1.70      0.76
   SRCPARAM L0048188     0.00000008859      0.00      1.70      0.76
   SRCPARAM L0048189     0.00000008859      0.00      1.70      0.76
   SRCPARAM L0048190     0.00000008859      0.00      1.70      0.76
   SRCPARAM L0048191     0.00000008859      0.00      1.70      0.76
   SRCPARAM L0048192     0.00000008859      0.00      1.70      0.76
   SRCPARAM L0048193     0.00000008859      0.00      1.70      0.76
   SRCPARAM L0048194     0.00000008859      0.00      1.70      0.76
   SRCPARAM L0048195     0.00000008859      0.00      1.70      0.76
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE14
   SRCPARAM L0048196     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048197     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048198     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048199     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048200     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048201     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048202     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048203     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048204     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048205     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048206     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048207     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048208     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048209     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048210     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048211     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048212     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048213     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048214     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048215     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048216     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048217     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048218     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048219     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048220     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048221     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048222     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048223     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048224     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048225     0.00000004291      0.00      1.70      0.76
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SRCPARAM L0048226     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048227     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048228     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048229     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048230     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048231     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048232     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048233     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048234     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048235     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048236     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048237     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048238     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048239     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048240     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048241     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048242     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048243     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048244     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048245     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048246     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048247     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048248     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048249     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048250     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048251     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048252     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048253     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048254     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048255     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048256     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048257     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048258     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048259     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048260     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048261     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048262     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048263     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048264     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048265     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048266     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048267     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048268     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048269     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048270     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048271     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048272     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048273     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048274     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048275     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048276     0.00000004291      0.00      1.70      0.76
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SRCPARAM L0048277     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048278     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048279     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048280     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048281     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048282     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048283     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048284     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048285     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048286     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048287     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048288     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048289     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048290     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048291     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048292     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048293     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048294     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048295     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048296     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048297     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048298     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048299     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048300     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048301     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048302     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048303     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048304     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048305     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048306     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048307     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048308     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048309     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048310     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048311     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048312     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048313     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048314     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048315     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048316     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048317     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048318     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048319     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048320     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048321     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048322     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048323     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048324     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048325     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048326     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048327     0.00000004291      0.00      1.70      0.76
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SRCPARAM L0048328     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048329     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048330     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048331     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048332     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048333     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048334     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048335     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048336     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048337     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048338     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048339     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048340     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048341     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048342     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048343     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048344     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048345     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048346     0.00000004291      0.00      1.70      0.76
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SRCPARAM L0048348     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048349     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048350     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048351     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048352     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048353     0.00000004291      0.00      1.70      0.76
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SRCPARAM L0048361     0.00000004291      0.00      1.70      0.76
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SRCPARAM L0048363     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048364     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048365     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048366     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048367     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048368     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048369     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048370     0.00000004291      0.00      1.70      0.76
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SRCPARAM L0048372     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048373     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048374     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048375     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048376     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048377     0.00000004291      0.00      1.70      0.76
SRCPARAM L0048378     0.00000004291      0.00      1.70      0.76
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   SRCPARAM L0048382     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048383     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048384     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048385     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048386     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048387     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048388     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048389     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048390     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048391     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048392     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048393     0.00000004291      0.00      1.70      0.76
   SRCPARAM L0048394     0.00000004291      0.00      1.70      0.76
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** LINE VOLUME Source ID = SLINE15
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   SRCPARAM L0048399     0.00000002067      0.00      1.70      0.76
   SRCPARAM L0048400     0.00000002067      0.00      1.70      0.76
   SRCPARAM L0048401     0.00000002067      0.00      1.70      0.76
   SRCPARAM L0048402     0.00000002067      0.00      1.70      0.76
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   SRCPARAM L0048404     0.00000002067      0.00      1.70      0.76
   SRCPARAM L0048405     0.00000002067      0.00      1.70      0.76
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   SRCPARAM L0048407     0.00000002067      0.00      1.70      0.76
   SRCPARAM L0048408     0.00000002067      0.00      1.70      0.76
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   SRCPARAM L0048411     0.00000002067      0.00      1.70      0.76
   SRCPARAM L0048412     0.00000002067      0.00      1.70      0.76
   SRCPARAM L0048413     0.00000002067      0.00      1.70      0.76
   SRCPARAM L0048414     0.00000002067      0.00      1.70      0.76
   SRCPARAM L0048415     0.00000002067      0.00      1.70      0.76
   SRCPARAM L0048416     0.00000002067      0.00      1.70      0.76
   SRCPARAM L0048417     0.00000002067      0.00      1.70      0.76
   SRCPARAM L0048418     0.00000002067      0.00      1.70      0.76
   SRCPARAM L0048419     0.00000002067      0.00      1.70      0.76
   SRCPARAM L0048420     0.00000002067      0.00      1.70      0.76
   SRCPARAM L0048421     0.00000002067      0.00      1.70      0.76
   SRCPARAM L0048422     0.00000002067      0.00      1.70      0.76
   SRCPARAM L0048423     0.00000002067      0.00      1.70      0.76
   SRCPARAM L0048424     0.00000002067      0.00      1.70      0.76
   SRCPARAM L0048425     0.00000002067      0.00      1.70      0.76
   SRCPARAM L0048426     0.00000002067      0.00      1.70      0.76
   SRCPARAM L0048427     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0048428     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0048430     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0048432     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048433     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048434     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048435     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048436     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048437     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048438     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048439     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0048441     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048442     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0048446     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048447     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048448     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0048466     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048467     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0048469     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0048472     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048473     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0048475     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0048478     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0048511     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048512     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048513     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048514     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048515     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0048518     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048519     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048520     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048521     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048522     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048523     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048524     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048525     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048526     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048527     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0048529     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0048532     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048533     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048534     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048535     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048536     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0048538     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048539     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048540     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0048542     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0048549     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0048552     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048553     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0048577     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048578     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0048580     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0048611     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048612     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048613     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048614     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048615     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048616     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0048619     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048620     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048621     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048622     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0048624     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048625     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048626     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048627     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0048922     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0048925     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0048927     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0048931     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0048933     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048934     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048935     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048936     0.00000002067      0.00      1.70      0.76
SRCPARAM L0048937     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0048977     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0049021     0.00000002067      0.00      1.70      0.76
SRCPARAM L0049022     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0049027     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0049034     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0049036     0.00000002067      0.00      1.70      0.76
SRCPARAM L0049037     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0049039     0.00000002067      0.00      1.70      0.76
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SRCPARAM L0049139     0.00000002208      0.00      1.70      0.76
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SRCPARAM L0049219     0.00000002208      0.00      1.70      0.76
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SRCPARAM L0049222     0.00000002208      0.00      1.70      0.76
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SRCPARAM L0049224     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049225     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049226     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049227     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049228     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049229     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049230     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049231     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049232     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049233     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049234     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049235     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049236     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049237     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049238     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049239     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049240     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049241     0.00000002208      0.00      1.70      0.76
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SRCPARAM L0049244     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049245     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049246     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049247     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049248     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049249     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049250     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049251     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049252     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049253     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049254     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049255     0.00000002208      0.00      1.70      0.76
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SRCPARAM L0049263     0.00000002208      0.00      1.70      0.76
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SRCPARAM L0049272     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049273     0.00000002208      0.00      1.70      0.76
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SRCPARAM L0049276     0.00000002208      0.00      1.70      0.76
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SRCPARAM L0049278     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049279     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049280     0.00000002208      0.00      1.70      0.76
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SRCPARAM L0049282     0.00000002208      0.00      1.70      0.76
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SRCPARAM L0049286     0.00000002208      0.00      1.70      0.76
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SRCPARAM L0049288     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049289     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049290     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049291     0.00000002208      0.00      1.70      0.76
SRCPARAM L0049292     0.00000002208      0.00      1.70      0.76
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   SRCPARAM L0049296     0.00000004141      0.00      1.70      0.76
   SRCPARAM L0049297     0.00000004141      0.00      1.70      0.76
   SRCPARAM L0049298     0.00000004141      0.00      1.70      0.76
   SRCPARAM L0049299     0.00000004141      0.00      1.70      0.76
   SRCPARAM L0049300     0.00000004141      0.00      1.70      0.76
   SRCPARAM L0049301     0.00000004141      0.00      1.70      0.76
   SRCPARAM L0049302     0.00000004141      0.00      1.70      0.76
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   SRCPARAM L0049308     0.00000004141      0.00      1.70      0.76
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   SRCPARAM L0049310     0.00000004141      0.00      1.70      0.76
   SRCPARAM L0049311     0.00000004141      0.00      1.70      0.76
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   SRCPARAM L0049313     0.00000004141      0.00      1.70      0.76
   SRCPARAM L0049314     0.00000004141      0.00      1.70      0.76
   SRCPARAM L0049315     0.00000004141      0.00      1.70      0.76
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   SRCPARAM L0049319     0.00000004141      0.00      1.70      0.76
   SRCPARAM L0049320     0.00000004141      0.00      1.70      0.76
   SRCPARAM L0049321     0.00000004141      0.00      1.70      0.76
   SRCPARAM L0049322     0.00000004141      0.00      1.70      0.76
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   SRCPARAM L0049324     0.00000004141      0.00      1.70      0.76
   SRCPARAM L0049325     0.00000004141      0.00      1.70      0.76
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   SRCPARAM L0049341     0.00000004141      0.00      1.70      0.76
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SRCPARAM L0049344     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049345     0.00000004141      0.00      1.70      0.76
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SRCPARAM L0049390     0.00000004141      0.00      1.70      0.76
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SRCPARAM L0049392     0.00000004141      0.00      1.70      0.76
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SRCPARAM L0049395     0.00000004141      0.00      1.70      0.76
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SRCPARAM L0049443     0.00000004141      0.00      1.70      0.76
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SRCPARAM L0049447     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049448     0.00000004141      0.00      1.70      0.76
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SRCPARAM L0049782     0.00000004141      0.00      1.70      0.76
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SRCPARAM L0049785     0.00000004141      0.00      1.70      0.76
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SRCPARAM L0049787     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049788     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049789     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049790     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049791     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049792     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049793     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049794     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049795     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049796     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049797     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049798     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049799     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049800     0.00000004141      0.00      1.70      0.76
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SRCPARAM L0049801     0.00000004141      0.00      1.70      0.76
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SRCPARAM L0049803     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049804     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049805     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049806     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049807     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049808     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049809     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049810     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049811     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049812     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049813     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049814     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049815     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049816     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049817     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049818     0.00000004141      0.00      1.70      0.76
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SRCPARAM L0049827     0.00000004141      0.00      1.70      0.76
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SRCPARAM L0049839     0.00000004141      0.00      1.70      0.76
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SRCPARAM L0049851     0.00000004141      0.00      1.70      0.76
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SRCPARAM L0049901     0.00000004141      0.00      1.70      0.76
SRCPARAM L0049902     0.00000004141      0.00      1.70      0.76
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   SRCPARAM L0049912     0.00000004141      0.00      1.70      0.76
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   SRCPARAM L0049914     0.00000004141      0.00      1.70      0.76
   SRCPARAM L0049915     0.00000004141      0.00      1.70      0.76
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   SRCPARAM L0049923     0.00000004141      0.00      1.70      0.76
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   SRCPARAM L0049941     0.00000004141      0.00      1.70      0.76
   SRCPARAM L0049942     0.00000004141      0.00      1.70      0.76
   SRCPARAM L0049943     0.00000004141      0.00      1.70      0.76
   SRCPARAM L0049944     0.00000004141      0.00      1.70      0.76
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** Building Downwash **
   BUILDHGT STCK1            9.14     9.14     9.14     9.14     9.14     9.14
   BUILDHGT STCK1            9.14     9.14     9.14     9.14     9.14     9.14
   BUILDHGT STCK1            9.14     9.14     9.14     9.14     9.14     9.14
   BUILDHGT STCK1            9.14     9.14     9.14     9.14     9.14     9.14
   BUILDHGT STCK1            9.14     9.14     9.14     9.14     9.14     9.14
   BUILDHGT STCK1            9.14     9.14     9.14     9.14     9.14     9.14
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BUILDHGT STCK2          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK2          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK2          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK2          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK2          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK2          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK3          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK3          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK3          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK3          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK3          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK3          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK4          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK4          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK4          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK4          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK4          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK4          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK5          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK5          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK5          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK5          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK5          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK5          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK6          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK6          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK6          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK6          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK6          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK6          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK7          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK7          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK7          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK7          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK7          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK7          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK8          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK8          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK8          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK8          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK8          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK8          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK9          9.14     9.14     9.14     9.14     9.14     9.14
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BUILDHGT STCK9          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK9          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK9          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK9          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK9          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK10         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK10         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK10         9.14     9.14     9.14     9.14     9.14     9.14
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BUILDHGT STCK10         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK10         9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK11         9.14     9.14     9.14     9.14     9.14     9.14
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BUILDHGT STCK11         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK11         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK11         9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK11         9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK12         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK12         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK12         9.14     9.14     9.14     9.14     9.14     9.14
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BUILDHGT STCK12         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK12         9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK13         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK13         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK13         9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK13         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK13         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK13         9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK14         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK14         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK14         9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK14         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK14         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK14         9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK15         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK15         9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK15         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK15         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK15         9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK15         9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK16         9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK16         9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK16         9.14     9.14     9.14     9.14     9.14     9.14
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BUILDHGT STCK16          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK18          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK18          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK18          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK18          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK18          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK18          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK19          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK19          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK19          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK19          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK19          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK19          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK20          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK20          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK20          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK20          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK20          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK20          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK21          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK21          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK21          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK21          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK21          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK21          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK22          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK22          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK22          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK22          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK22          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK22          9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK23          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK23          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK23          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK23          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK23          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK23          9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK24          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK24          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK24          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK24          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK24          9.14     9.14     9.14     9.14     9.14     9.14
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BUILDHGT STCK24          9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK25          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK25          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK25          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK25          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK25          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK25          9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK26          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK26          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK26          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK26          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK26          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK26          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK27          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK27          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK27          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK27          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK27          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK27          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK28          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK28          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK28          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK28          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK28          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK28          9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK29          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK29          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK29          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK29          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK29          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK29          9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK30          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK30          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK30          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK30          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK30          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK30          9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK31          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK31          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK31          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK31          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK31          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK31          9.14     9.14     9.14     9.14     9.14     0.00
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BUILDHGT STCK32	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK32	9.14	9.14	0.00	9.14	9.14	9.14
BUILDHGT STCK32	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK32	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK32	9.14	9.14	0.00	9.14	9.14	9.14
BUILDHGT STCK32	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK33	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK33	9.14	9.14	0.00	9.14	9.14	9.14
BUILDHGT STCK33	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK33	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK33	9.14	9.14	0.00	9.14	9.14	9.14
BUILDHGT STCK33	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK34	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK34	9.14	9.14	0.00	9.14	9.14	9.14
BUILDHGT STCK34	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK34	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK34	9.14	9.14	0.00	9.14	9.14	9.14
BUILDHGT STCK34	9.14	9.14	9.14	9.14	9.14	9.14
BUILDWID STCK1	142.74	146.83	146.45	141.63	132.50	119.35
BUILDWID STCK1	102.57	82.67	61.18	83.50	103.27	119.91
BUILDWID STCK1	132.91	141.87	146.52	146.71	142.45	134.32
BUILDWID STCK1	142.74	146.83	146.45	141.63	132.50	119.35
BUILDWID STCK1	102.57	82.67	61.18	83.50	103.27	119.91
BUILDWID STCK1	132.91	141.87	146.52	146.71	142.45	134.32
BUILDWID STCK2	45.98	55.15	62.64	68.23	71.75	73.08
BUILDWID STCK2	72.20	69.12	63.94	67.33	70.98	72.47
BUILDWID STCK2	71.76	68.87	63.88	56.96	48.30	38.18
BUILDWID STCK2	45.98	55.15	62.64	68.23	71.75	73.08
BUILDWID STCK2	72.20	69.12	63.94	67.33	70.98	72.47
BUILDWID STCK2	71.76	68.87	63.88	56.96	48.30	38.18
BUILDWID STCK3	74.66	78.71	80.36	150.50	142.52	130.20
BUILDWID STCK3	113.93	53.58	0.00	54.00	63.57	71.20
BUILDWID STCK3	76.67	151.60	155.07	153.82	147.90	137.49
BUILDWID STCK3	146.75	152.65	153.92	150.50	142.52	130.20
BUILDWID STCK3	113.93	53.58	0.00	54.00	63.57	71.20
BUILDWID STCK3	76.67	151.60	155.07	153.82	147.90	68.34
BUILDWID STCK4	146.75	152.65	153.92	83.64	80.18	74.28
BUILDWID STCK4	66.12	55.96	0.00	55.10	114.68	131.10
BUILDWID STCK4	143.53	151.60	155.07	153.82	147.90	137.49
BUILDWID STCK4	146.75	152.65	153.92	83.64	80.18	74.28
BUILDWID STCK4	66.12	55.96	0.00	55.10	114.68	131.10
BUILDWID STCK4	143.53	151.60	84.13	82.62	78.60	72.19
BUILDWID STCK5	142.74	146.83	146.45	141.63	132.50	119.35
BUILDWID STCK5	102.57	82.67	61.18	83.50	103.27	119.91

BUILDWID STCK5	132.91	141.87	146.52	146.71	142.45	134.32
BUILDWID STCK5	142.74	146.83	146.45	141.63	132.50	119.35
BUILDWID STCK5	102.57	82.67	61.18	83.50	103.27	119.91
BUILDWID STCK5	132.91	141.87	146.52	146.71	142.45	134.32
BUILDWID STCK6	145.11	149.43	149.22	144.47	135.34	122.09
BUILDWID STCK6	105.13	84.97	63.86	85.66	105.40	121.94
BUILDWID STCK6	134.77	143.51	147.89	147.77	143.17	136.37
BUILDWID STCK6	145.11	149.43	149.22	144.47	135.34	122.09
BUILDWID STCK6	105.13	84.97	63.86	85.66	105.40	121.94
BUILDWID STCK6	134.77	143.51	147.89	147.77	143.17	136.37
BUILDWID STCK7	145.11	149.43	149.22	144.47	135.34	122.09
BUILDWID STCK7	105.13	84.97	63.86	85.66	105.40	121.94
BUILDWID STCK7	134.77	143.51	147.89	147.77	143.17	136.37
BUILDWID STCK7	145.11	149.43	149.22	144.47	135.34	122.09
BUILDWID STCK7	105.13	84.97	63.86	85.66	105.40	121.94
BUILDWID STCK7	134.77	143.51	147.89	147.77	143.17	136.37
BUILDWID STCK8	44.94	53.93	61.28	66.77	70.24	71.56
BUILDWID STCK8	70.72	67.72	62.91	67.96	70.94	71.77
BUILDWID STCK8	70.42	66.93	61.40	54.01	44.98	34.58
BUILDWID STCK8	44.94	53.93	61.28	66.77	70.24	71.56
BUILDWID STCK8	70.72	67.72	62.91	67.96	70.94	71.77
BUILDWID STCK8	70.42	66.93	61.40	54.01	44.98	34.58
BUILDWID STCK9	145.39	149.74	149.55	144.82	135.68	122.42
BUILDWID STCK9	105.44	85.26	0.00	85.74	105.73	122.50
BUILDWID STCK9	135.55	144.48	149.03	149.04	144.53	136.61
BUILDWID STCK9	145.39	149.74	149.55	144.82	135.68	122.42
BUILDWID STCK9	105.44	85.26	0.00	85.74	105.73	122.50
BUILDWID STCK9	135.55	144.48	149.03	149.04	144.53	136.61
BUILDWID STCK10	145.39	149.74	149.55	144.82	135.68	122.42
BUILDWID STCK10	105.44	85.26	63.49	85.74	105.73	122.50
BUILDWID STCK10	135.55	144.48	149.03	149.04	144.53	136.61
BUILDWID STCK10	145.39	149.74	149.55	144.82	135.68	122.42
BUILDWID STCK10	105.44	85.26	63.49	85.74	105.73	122.50
BUILDWID STCK10	135.55	144.48	149.03	149.04	144.53	136.61
BUILDWID STCK11	147.84	151.91	151.37	146.23	136.64	122.90
BUILDWID STCK11	105.43	84.75	0.00	86.07	107.04	124.75
BUILDWID STCK11	138.68	148.39	153.59	154.12	149.98	141.27
BUILDWID STCK11	147.84	151.91	151.37	146.23	136.64	122.90
BUILDWID STCK11	105.43	84.75	0.00	86.07	107.04	124.75
BUILDWID STCK11	138.68	148.39	153.59	154.12	149.98	141.27
BUILDWID STCK12	147.84	151.91	151.37	146.23	136.64	122.90
BUILDWID STCK12	105.43	84.75	63.16	86.07	107.04	124.75
BUILDWID STCK12	138.68	148.39	153.59	154.12	149.98	141.27
BUILDWID STCK12	147.84	151.91	151.37	146.23	136.64	122.90

BUILDWID STCK12	105.43	84.75	63.16	86.07	107.04	124.75
BUILDWID STCK12	138.68	148.39	153.59	154.12	149.98	141.27
BUILDWID STCK13	86.26	103.64	117.88	128.53	135.28	137.92
BUILDWID STCK13	136.37	130.68	121.93	131.22	136.85	138.32
BUILDWID STCK13	135.59	128.74	117.97	103.62	86.12	0.00
BUILDWID STCK13	86.26	103.64	117.88	128.53	135.28	137.92
BUILDWID STCK13	136.37	130.68	121.93	131.22	136.85	138.32
BUILDWID STCK13	135.59	128.74	117.97	103.62	86.12	0.00
BUILDWID STCK14	86.26	103.64	117.88	128.53	135.28	137.92
BUILDWID STCK14	136.37	130.68	121.93	131.22	136.85	138.32
BUILDWID STCK14	135.59	128.74	117.97	103.62	86.12	0.00
BUILDWID STCK14	86.26	103.64	117.88	128.53	135.28	137.92
BUILDWID STCK14	136.37	130.68	121.93	131.22	136.85	138.32
BUILDWID STCK14	135.59	128.74	117.97	103.62	86.12	0.00
BUILDWID STCK15	144.26	148.49	148.22	143.44	134.30	121.08
BUILDWID STCK15	104.18	84.12	0.00	83.70	104.02	121.17
BUILDWID STCK15	134.65	144.03	149.04	149.52	145.45	136.97
BUILDWID STCK15	144.26	148.49	148.22	143.44	134.30	121.08
BUILDWID STCK15	104.18	84.12	0.00	83.70	104.02	121.17
BUILDWID STCK15	134.65	144.03	149.04	149.52	145.45	136.97
BUILDWID STCK16	144.26	148.49	148.22	143.44	134.30	121.08
BUILDWID STCK16	104.18	84.12	0.00	83.70	104.02	121.17
BUILDWID STCK16	134.65	144.03	149.04	149.52	145.45	136.97
BUILDWID STCK16	144.26	148.49	148.22	143.44	134.30	121.08
BUILDWID STCK16	104.18	84.12	0.00	83.70	104.02	121.17
BUILDWID STCK16	134.65	144.03	149.04	149.52	145.45	136.97
BUILDWID STCK18	145.39	149.99	150.02	145.50	136.56	123.47
BUILDWID STCK18	106.63	86.54	0.00	85.37	105.38	122.19
BUILDWID STCK18	135.29	144.27	148.87	148.95	144.50	136.38
BUILDWID STCK18	145.39	149.99	150.02	145.50	136.56	123.47
BUILDWID STCK18	106.63	86.54	0.00	85.37	105.38	122.19
BUILDWID STCK18	135.29	144.27	148.87	148.95	144.50	136.38
BUILDWID STCK19	145.39	149.99	150.02	145.50	136.56	123.47
BUILDWID STCK19	106.63	86.54	0.00	85.37	105.38	122.19
BUILDWID STCK19	135.29	144.27	148.87	148.95	144.50	136.38
BUILDWID STCK19	145.39	149.99	150.02	145.50	136.56	123.47
BUILDWID STCK19	106.63	86.54	0.00	85.37	105.38	122.19
BUILDWID STCK19	135.29	144.27	148.87	148.95	144.50	136.38
BUILDWID STCK20	147.03	151.26	150.89	145.94	136.56	123.02
BUILDWID STCK20	105.75	85.27	0.00	85.37	105.97	123.35
BUILDWID STCK20	136.98	146.45	151.47	151.88	147.69	139.00
BUILDWID STCK20	147.03	151.26	150.89	145.94	136.56	123.02
BUILDWID STCK20	105.75	85.27	0.00	85.37	105.97	123.35
BUILDWID STCK20	136.98	146.45	151.47	151.88	147.69	139.00

BUILDWID STCK21	147.03	151.26	150.89	145.94	136.56	123.02
BUILDWID STCK21	105.75	85.27	0.00	85.37	105.97	123.35
BUILDWID STCK21	136.98	146.45	151.47	151.88	147.69	139.00
BUILDWID STCK21	147.03	151.26	150.89	145.94	136.56	123.02
BUILDWID STCK21	105.75	85.27	0.00	85.37	105.97	123.35
BUILDWID STCK21	136.98	146.45	151.47	151.88	147.69	139.00
BUILDWID STCK22	49.74	58.98	66.42	71.84	75.08	76.04
BUILDWID STCK22	74.69	71.07	65.57	70.27	73.68	74.85
BUILDWID STCK22	73.75	70.40	64.92	57.46	48.26	0.00
BUILDWID STCK22	49.75	58.98	66.42	71.84	75.08	76.04
BUILDWID STCK22	74.69	71.07	65.57	70.27	73.68	74.85
BUILDWID STCK22	73.75	70.40	64.92	57.46	48.26	0.00
BUILDWID STCK23	44.63	54.01	61.75	145.94	136.56	123.02
BUILDWID STCK23	105.75	85.27	63.18	85.37	105.97	123.35
BUILDWID STCK23	136.98	146.45	61.28	53.42	43.94	0.00
BUILDWID STCK23	44.63	54.01	61.75	145.94	136.56	123.02
BUILDWID STCK23	105.75	69.70	65.17	69.93	105.97	123.35
BUILDWID STCK23	136.98	146.45	61.28	53.42	43.94	0.00
BUILDWID STCK24	92.18	111.73	127.89	140.17	148.18	151.69
BUILDWID STCK24	150.60	144.93	135.13	143.68	148.71	149.23
BUILDWID STCK24	145.21	136.78	124.19	107.83	88.20	0.00
BUILDWID STCK24	92.18	111.73	127.89	140.17	148.18	151.69
BUILDWID STCK24	150.60	144.93	135.13	143.68	148.71	149.23
BUILDWID STCK24	145.21	136.78	124.19	107.83	88.20	0.00
BUILDWID STCK25	92.18	111.73	127.89	140.17	148.18	151.69
BUILDWID STCK25	150.60	144.93	135.13	143.68	148.71	149.23
BUILDWID STCK25	145.21	136.78	124.19	107.83	88.20	0.00
BUILDWID STCK25	92.18	111.73	127.89	140.17	148.18	151.69
BUILDWID STCK25	150.60	144.93	135.13	143.68	148.71	149.23
BUILDWID STCK25	145.21	136.78	124.19	107.83	88.20	0.00
BUILDWID STCK26	146.57	152.99	154.77	151.84	144.30	132.37
BUILDWID STCK26	116.43	96.94	0.00	97.88	117.43	133.41
BUILDWID STCK26	145.34	152.85	155.72	153.86	147.32	136.33
BUILDWID STCK26	146.57	152.99	154.77	151.84	144.30	132.37
BUILDWID STCK26	116.43	96.94	0.00	97.88	117.43	133.41
BUILDWID STCK26	145.34	152.85	155.72	153.86	147.32	136.33
BUILDWID STCK27	146.57	152.99	154.77	151.84	144.30	132.37
BUILDWID STCK27	116.43	96.94	0.00	97.88	117.43	133.41
BUILDWID STCK27	145.34	152.85	155.72	153.86	147.32	136.33
BUILDWID STCK27	146.57	152.99	154.77	151.84	144.30	132.37
BUILDWID STCK27	116.43	96.94	0.00	97.88	117.43	133.41
BUILDWID STCK27	145.34	152.85	155.72	153.86	147.32	136.33
BUILDWID STCK28	49.33	60.63	70.09	151.84	144.30	132.37

BUILDWID STCK28	116.43	96.94	75.35	97.88	117.43	133.41
BUILDWID STCK28	145.34	152.85	68.46	58.77	47.29	0.00
BUILDWID STCK28	49.33	60.63	70.09	151.84	144.30	132.37
BUILDWID STCK28	116.43	82.08	77.39	82.18	117.43	133.41
BUILDWID STCK28	145.34	152.85	68.46	58.77	47.29	0.00
BUILDWID STCK29	93.45	115.86	134.74	149.54	159.79	165.18
BUILDWID STCK29	165.56	160.90	77.39	82.18	84.48	84.21
BUILDWID STCK29	81.38	76.07	68.46	113.20	90.89	0.00
BUILDWID STCK29	93.45	115.86	134.74	149.54	159.79	165.18
BUILDWID STCK29	165.56	160.90	151.36	159.31	163.61	162.95
BUILDWID STCK29	157.33	146.93	132.07	113.20	90.89	0.00
BUILDWID STCK30	93.45	115.86	134.74	149.54	159.79	165.18
BUILDWID STCK30	165.56	160.90	151.36	159.31	163.61	162.95
BUILDWID STCK30	157.33	146.93	132.07	113.20	90.89	0.00
BUILDWID STCK30	93.45	115.86	134.74	149.54	159.79	165.18
BUILDWID STCK30	165.56	160.90	151.36	159.31	163.61	162.95
BUILDWID STCK30	157.33	146.93	132.07	113.20	90.89	0.00
BUILDWID STCK31	49.17	60.63	153.92	150.50	142.52	130.20
BUILDWID STCK31	113.93	94.20	72.40	94.78	114.68	131.10
BUILDWID STCK31	143.53	151.60	68.30	58.65	47.21	0.00
BUILDWID STCK31	49.17	60.63	153.92	150.50	142.52	130.20
BUILDWID STCK31	113.93	82.86	77.75	81.92	114.68	131.10
BUILDWID STCK31	143.53	151.60	68.30	58.65	47.21	0.00
BUILDWID STCK32	146.75	152.65	153.92	150.50	142.52	130.20
BUILDWID STCK32	113.93	94.20	0.00	94.78	114.68	131.10
BUILDWID STCK32	143.53	151.60	155.07	153.82	147.90	137.49
BUILDWID STCK32	146.75	152.65	153.92	150.50	142.52	130.20
BUILDWID STCK32	113.93	94.20	0.00	94.78	114.68	131.10
BUILDWID STCK32	143.53	151.60	155.07	153.82	147.90	137.49
BUILDWID STCK33	146.75	152.65	153.92	150.50	142.52	130.20
BUILDWID STCK33	113.93	94.20	0.00	94.78	114.68	131.10
BUILDWID STCK33	143.53	151.60	155.07	153.82	147.90	137.49
BUILDWID STCK33	146.75	152.65	153.92	150.50	142.52	130.20
BUILDWID STCK33	113.93	94.20	0.00	94.78	114.68	131.10
BUILDWID STCK33	143.53	151.60	155.07	153.82	147.90	137.49
BUILDWID STCK34	47.74	53.41	57.45	83.64	80.18	74.28
BUILDWID STCK34	66.12	55.96	0.00	51.10	55.69	58.59
BUILDWID STCK34	59.71	59.02	68.30	58.65	47.21	36.22
BUILDWID STCK34	49.17	60.63	70.24	59.74	60.22	58.87
BUILDWID STCK34	55.73	50.90	0.00	51.10	55.69	58.59
BUILDWID STCK34	59.71	59.02	56.54	52.33	46.54	40.63
BUILDLEN STCK1	83.50	103.27	119.91	132.91	141.87	146.52
BUILDLEN STCK1	146.71	142.45	134.32	142.74	146.83	146.45
BUILDLEN STCK1	141.63	132.50	119.35	102.57	82.67	61.18

BUILDLEN STCK1	83.50	103.27	119.91	132.91	141.87	146.52
BUILDLEN STCK1	146.71	142.45	134.32	142.74	146.83	146.45
BUILDLEN STCK1	141.63	132.50	119.35	102.57	82.67	61.18
BUILDLEN STCK2	67.33	70.98	72.47	71.76	68.87	63.88
BUILDLEN STCK2	56.96	48.30	38.18	45.98	55.15	62.64
BUILDLEN STCK2	68.23	71.75	73.08	72.20	69.12	63.94
BUILDLEN STCK2	67.33	70.98	72.47	71.76	68.87	63.88
BUILDLEN STCK2	56.96	48.30	38.18	45.98	55.15	62.64
BUILDLEN STCK2	68.23	71.75	73.08	72.20	69.12	63.94
BUILDLEN STCK3	54.00	63.57	71.20	143.53	151.60	155.07
BUILDLEN STCK3	153.82	74.68	0.00	74.66	78.71	80.36
BUILDLEN STCK3	79.58	142.52	130.20	113.93	94.20	72.40
BUILDLEN STCK3	94.78	114.68	131.10	143.53	151.60	155.07
BUILDLEN STCK3	153.82	74.68	0.00	74.66	78.71	80.36
BUILDLEN STCK3	79.58	142.52	130.20	113.93	94.20	42.79
BUILDLEN STCK4	94.78	114.68	131.10	79.51	83.08	84.13
BUILDLEN STCK4	82.62	78.60	0.00	78.75	152.65	153.92
BUILDLEN STCK4	150.50	142.52	130.20	113.93	94.20	72.40
BUILDLEN STCK4	94.78	114.68	131.10	79.51	83.08	84.13
BUILDLEN STCK4	82.62	78.60	0.00	78.75	152.65	153.92
BUILDLEN STCK4	150.50	142.52	74.28	66.12	55.96	44.09
BUILDLEN STCK5	83.50	103.27	119.91	132.91	141.87	146.52
BUILDLEN STCK5	146.71	142.45	134.32	142.74	146.83	146.45
BUILDLEN STCK5	141.63	132.50	119.35	102.57	82.67	61.18
BUILDLEN STCK5	83.50	103.27	119.91	132.91	141.87	146.52
BUILDLEN STCK5	146.71	142.45	134.32	142.74	146.83	146.45
BUILDLEN STCK5	141.63	132.50	119.35	102.57	82.67	61.18
BUILDLEN STCK6	85.66	105.40	121.94	134.77	143.51	147.89
BUILDLEN STCK6	147.77	143.17	136.37	145.11	149.43	149.22
BUILDLEN STCK6	144.47	135.34	122.09	105.13	84.97	63.86
BUILDLEN STCK6	85.66	105.40	121.94	134.77	143.51	147.89
BUILDLEN STCK6	147.77	143.17	136.37	145.11	149.43	149.22
BUILDLEN STCK6	144.47	135.34	122.09	105.13	84.97	63.86
BUILDLEN STCK7	85.66	105.40	121.94	134.77	143.51	147.89
BUILDLEN STCK7	147.77	143.17	136.37	145.11	149.43	149.22
BUILDLEN STCK7	144.47	135.34	122.09	105.13	84.97	63.86
BUILDLEN STCK7	85.66	105.40	121.94	134.77	143.51	147.89
BUILDLEN STCK7	147.77	143.17	136.37	145.11	149.43	149.22
BUILDLEN STCK7	144.47	135.34	122.09	105.13	84.97	63.86
BUILDLEN STCK8	67.96	70.94	71.77	70.42	66.93	61.40
BUILDLEN STCK8	54.01	44.98	34.58	44.94	53.93	61.28
BUILDLEN STCK8	66.77	70.24	71.56	70.72	67.72	62.91
BUILDLEN STCK8	67.96	70.94	71.77	70.42	66.93	61.40
BUILDLEN STCK8	54.01	44.98	34.58	44.94	53.93	61.28

BUILDLEN STCK8	66.77	70.24	71.56	70.72	67.72	62.91
BUILDLEN STCK9	85.74	105.73	122.50	135.55	144.48	149.03
BUILDLEN STCK9	149.04	144.53	0.00	145.39	149.74	149.55
BUILDLEN STCK9	144.82	135.68	122.42	105.44	85.26	63.49
BUILDLEN STCK9	85.74	105.73	122.50	135.55	144.48	149.03
BUILDLEN STCK9	149.04	144.53	0.00	145.39	149.74	149.55
BUILDLEN STCK9	144.82	135.68	122.42	105.44	85.26	63.49
BUILDLEN STCK10	85.74	105.73	122.50	135.55	144.48	149.03
BUILDLEN STCK10	149.04	144.53	136.61	145.39	149.74	149.55
BUILDLEN STCK10	144.82	135.68	122.42	105.44	85.26	63.49
BUILDLEN STCK10	85.74	105.73	122.50	135.55	144.48	149.03
BUILDLEN STCK10	149.04	144.53	136.61	145.39	149.74	149.55
BUILDLEN STCK10	144.82	135.68	122.42	105.44	85.26	63.49
BUILDLEN STCK11	86.07	107.04	124.75	138.68	148.39	153.59
BUILDLEN STCK11	154.12	149.98	0.00	147.84	151.91	151.37
BUILDLEN STCK11	146.23	136.64	122.90	105.43	84.75	63.16
BUILDLEN STCK11	86.07	107.04	124.75	138.68	148.39	153.59
BUILDLEN STCK11	154.12	149.98	0.00	147.84	151.91	151.37
BUILDLEN STCK11	146.23	136.64	122.90	105.43	84.75	63.16
BUILDLEN STCK12	86.07	107.04	124.75	138.68	148.39	153.59
BUILDLEN STCK12	154.12	149.98	141.27	147.84	151.91	151.37
BUILDLEN STCK12	146.23	136.64	122.90	105.43	84.75	63.16
BUILDLEN STCK12	86.07	107.04	124.75	138.68	148.39	153.59
BUILDLEN STCK12	154.12	149.98	141.27	147.84	151.91	151.37
BUILDLEN STCK12	146.23	136.64	122.90	105.43	84.75	63.16
BUILDLEN STCK13	131.22	136.85	138.32	135.59	128.74	117.97
BUILDLEN STCK13	103.62	86.12	66.47	86.26	103.64	117.88
BUILDLEN STCK13	128.53	135.28	137.92	136.37	130.68	0.00
BUILDLEN STCK13	131.22	136.85	138.32	135.59	128.74	117.97
BUILDLEN STCK13	103.62	86.12	66.47	86.26	103.64	117.88
BUILDLEN STCK13	128.53	135.28	137.92	136.37	130.68	0.00
BUILDLEN STCK14	131.22	136.85	138.32	135.59	128.74	117.97
BUILDLEN STCK14	103.62	86.12	66.47	86.26	103.64	117.88
BUILDLEN STCK14	128.53	135.28	137.92	136.37	130.68	0.00
BUILDLEN STCK14	131.22	136.85	138.32	135.59	128.74	117.97
BUILDLEN STCK14	103.62	86.12	66.47	86.26	103.64	117.88
BUILDLEN STCK14	128.53	135.28	137.92	136.37	130.68	0.00
BUILDLEN STCK15	83.70	104.02	121.17	134.65	144.03	149.04
BUILDLEN STCK15	149.52	145.45	0.00	144.26	148.49	148.22
BUILDLEN STCK15	143.44	134.30	121.08	104.18	84.12	61.50
BUILDLEN STCK15	83.70	104.02	121.17	134.65	144.03	149.04
BUILDLEN STCK15	149.52	145.45	0.00	144.26	148.49	148.22
BUILDLEN STCK15	143.44	134.30	121.08	104.18	84.12	61.50

BUILDLEN STCK16	83.70	104.02	121.17	134.65	144.03	149.04
BUILDLEN STCK16	149.52	145.45	0.00	144.26	148.49	148.22
BUILDLEN STCK16	143.44	134.30	121.08	104.18	84.12	61.50
BUILDLEN STCK16	83.70	104.02	121.17	134.65	144.03	149.04
BUILDLEN STCK16	149.52	145.45	0.00	144.26	148.49	148.22
BUILDLEN STCK16	143.44	134.30	121.08	104.18	84.12	61.50
BUILDLEN STCK18	85.37	105.38	122.19	135.29	144.27	148.87
BUILDLEN STCK18	148.95	144.50	0.00	145.39	149.99	150.02
BUILDLEN STCK18	145.50	136.56	123.47	106.63	86.54	63.83
BUILDLEN STCK18	85.37	105.38	122.19	135.29	144.27	148.87
BUILDLEN STCK18	148.95	144.50	0.00	145.39	149.99	150.02
BUILDLEN STCK18	145.50	136.56	123.47	106.63	86.54	63.83
BUILDLEN STCK19	85.37	105.38	122.19	135.29	144.27	148.87
BUILDLEN STCK19	148.95	144.50	0.00	145.39	149.99	150.02
BUILDLEN STCK19	145.50	136.56	123.47	106.63	86.54	63.83
BUILDLEN STCK19	85.37	105.38	122.19	135.29	144.27	148.87
BUILDLEN STCK19	148.95	144.50	0.00	145.39	149.99	150.02
BUILDLEN STCK19	145.50	136.56	123.47	106.63	86.54	63.83
BUILDLEN STCK20	85.37	105.97	123.35	136.98	146.45	151.47
BUILDLEN STCK20	151.88	147.69	0.00	147.03	151.26	150.89
BUILDLEN STCK20	145.94	136.56	123.02	105.75	85.27	63.18
BUILDLEN STCK20	85.37	105.97	123.35	136.98	146.45	151.47
BUILDLEN STCK20	151.88	147.69	0.00	147.03	151.26	150.89
BUILDLEN STCK20	145.94	136.56	123.02	105.75	85.27	63.18
BUILDLEN STCK21	85.37	105.97	123.35	136.98	146.45	151.47
BUILDLEN STCK21	151.88	147.69	0.00	147.03	151.26	150.89
BUILDLEN STCK21	145.94	136.56	123.02	105.75	85.27	63.18
BUILDLEN STCK21	85.37	105.97	123.35	136.98	146.45	151.47
BUILDLEN STCK21	151.88	147.69	0.00	147.03	151.26	150.89
BUILDLEN STCK21	145.94	136.56	123.02	105.75	85.27	63.18
BUILDLEN STCK22	70.27	73.68	74.85	73.75	70.40	64.92
BUILDLEN STCK22	57.46	48.26	39.00	49.75	58.98	66.42
BUILDLEN STCK22	71.84	75.08	76.04	74.69	71.07	0.00
BUILDLEN STCK22	70.27	73.68	74.85	73.75	70.40	64.92
BUILDLEN STCK22	57.46	48.26	39.00	49.75	58.98	66.42
BUILDLEN STCK22	71.84	75.08	76.04	74.69	71.07	0.00
BUILDLEN STCK23	69.93	72.57	73.00	136.98	146.45	151.47
BUILDLEN STCK23	151.88	147.69	139.00	147.03	151.26	150.89
BUILDLEN STCK23	145.94	136.56	73.06	72.48	69.70	0.00
BUILDLEN STCK23	69.93	72.57	73.00	136.98	146.45	151.47
BUILDLEN STCK23	151.88	43.94	34.06	44.63	151.26	150.89
BUILDLEN STCK23	145.94	136.56	73.06	72.48	69.70	0.00
BUILDLEN STCK24	143.68	148.71	149.23	145.21	136.78	124.19
BUILDLEN STCK24	107.83	88.20	69.82	92.18	111.73	127.89

BUILDLEN STCK24	140.17	148.18	151.69	150.60	144.93	0.00
BUILDLEN STCK24	143.68	148.71	149.23	145.21	136.78	124.19
BUILDLEN STCK24	107.83	88.20	69.82	92.18	111.73	127.89
BUILDLEN STCK24	140.17	148.18	151.69	150.60	144.93	0.00
BUILDLEN STCK25	143.68	148.71	149.23	145.21	136.78	124.19
BUILDLEN STCK25	107.83	88.20	69.82	92.18	111.73	127.89
BUILDLEN STCK25	140.17	148.18	151.69	150.60	144.93	0.00
BUILDLEN STCK25	143.68	148.71	149.23	145.21	136.78	124.19
BUILDLEN STCK25	107.83	88.20	69.82	92.18	111.73	127.89
BUILDLEN STCK25	140.17	148.18	151.69	150.60	144.93	0.00
BUILDLEN STCK26	97.88	117.43	133.41	145.34	152.85	155.72
BUILDLEN STCK26	153.86	147.32	0.00	146.57	152.99	154.77
BUILDLEN STCK26	151.84	144.30	132.37	116.43	96.94	75.35
BUILDLEN STCK26	97.88	117.43	133.41	145.34	152.85	155.72
BUILDLEN STCK26	153.86	147.32	0.00	146.57	152.99	154.77
BUILDLEN STCK26	151.84	144.30	132.37	116.43	96.94	75.35
BUILDLEN STCK27	97.88	117.43	133.41	145.34	152.85	155.72
BUILDLEN STCK27	153.86	147.32	0.00	146.57	152.99	154.77
BUILDLEN STCK27	151.84	144.30	132.37	116.43	96.94	75.35
BUILDLEN STCK27	97.88	117.43	133.41	145.34	152.85	155.72
BUILDLEN STCK27	153.86	147.32	0.00	146.57	152.99	154.77
BUILDLEN STCK27	151.84	144.30	132.37	116.43	96.94	75.35
BUILDLEN STCK28	82.18	84.48	84.21	145.34	152.85	155.72
BUILDLEN STCK28	153.86	147.32	136.33	146.57	152.99	154.77
BUILDLEN STCK28	151.84	144.30	84.87	84.77	82.08	0.00
BUILDLEN STCK28	82.18	84.48	84.21	145.34	152.85	155.72
BUILDLEN STCK28	153.86	47.29	36.53	49.33	152.99	154.77
BUILDLEN STCK28	151.84	144.30	84.87	84.77	82.08	0.00
BUILDLEN STCK29	159.31	163.61	162.95	157.33	146.93	132.07
BUILDLEN STCK29	113.20	90.89	36.53	49.33	60.63	70.09
BUILDLEN STCK29	77.42	82.40	84.87	165.56	160.90	0.00
BUILDLEN STCK29	159.31	163.61	162.95	157.33	146.93	132.07
BUILDLEN STCK29	113.20	90.89	68.20	93.45	115.86	134.74
BUILDLEN STCK29	149.54	159.79	165.18	165.56	160.90	0.00
BUILDLEN STCK30	159.31	163.61	162.95	157.33	146.93	132.07
BUILDLEN STCK30	113.20	90.89	68.20	93.45	115.86	134.74
BUILDLEN STCK30	149.54	159.79	165.18	165.56	160.90	0.00
BUILDLEN STCK30	159.31	163.61	162.95	157.33	146.93	132.07
BUILDLEN STCK30	113.20	90.89	68.20	93.45	115.86	134.74
BUILDLEN STCK30	149.54	159.79	165.18	165.56	160.90	0.00
BUILDLEN STCK31	81.92	84.22	131.10	143.53	151.60	155.07
BUILDLEN STCK31	153.82	147.90	137.49	146.75	152.65	153.92
BUILDLEN STCK31	150.50	142.52	85.44	85.45	82.86	0.00
BUILDLEN STCK31	81.92	84.22	131.10	143.53	151.60	155.07

BUILDLEN	STCK31	153.82	47.21	36.22	49.17	152.65	153.92
BUILDLEN	STCK31	150.50	142.52	85.44	85.45	82.86	0.00
BUILDLEN	STCK32	94.78	114.68	131.10	143.53	151.60	155.07
BUILDLEN	STCK32	153.82	147.90	0.00	146.75	152.65	153.92
BUILDLEN	STCK32	150.50	142.52	130.20	113.93	94.20	72.40
BUILDLEN	STCK32	94.78	114.68	131.10	143.53	151.60	155.07
BUILDLEN	STCK32	153.82	147.90	0.00	146.75	152.65	153.92
BUILDLEN	STCK32	150.50	142.52	130.20	113.93	94.20	72.40
BUILDLEN	STCK33	94.78	114.68	131.10	143.53	151.60	155.07
BUILDLEN	STCK33	153.82	147.90	0.00	146.75	152.65	153.92
BUILDLEN	STCK33	150.50	142.52	130.20	113.93	94.20	72.40
BUILDLEN	STCK33	94.78	114.68	131.10	143.53	151.60	155.07
BUILDLEN	STCK33	153.82	147.90	0.00	146.75	152.65	153.92
BUILDLEN	STCK33	150.50	142.52	130.20	113.93	94.20	72.40
BUILDLEN	STCK34	51.10	55.69	58.59	79.51	83.08	84.13
BUILDLEN	STCK34	82.62	78.60	0.00	47.74	53.41	57.45
BUILDLEN	STCK34	59.74	60.22	85.44	85.45	82.86	77.75
BUILDLEN	STCK34	81.92	84.22	83.97	59.71	59.02	56.54
BUILDLEN	STCK34	52.33	46.54	0.00	47.74	53.41	57.45
BUILDLEN	STCK34	59.74	60.22	58.87	55.73	50.90	44.95
XBADJ	STCK1	-3.57	-9.42	-14.97	-20.08	-24.57	-28.32
XBADJ	STCK1	-31.20	-33.14	-34.07	-44.59	-53.75	-61.29
XBADJ	STCK1	-66.95	-70.59	-72.08	-71.38	-68.51	-63.56
XBADJ	STCK1	-79.92	-93.86	-104.94	-112.83	-117.30	-118.20
XBADJ	STCK1	-115.51	-109.31	-100.25	-98.15	-93.08	-85.17
XBADJ	STCK1	-74.67	-61.91	-47.27	-31.19	-14.16	2.38
XBADJ	STCK2	-32.53	-38.21	-42.72	-45.93	-47.75	-48.12
XBADJ	STCK2	-47.03	-44.51	-40.63	-44.49	-48.84	-51.71
XBADJ	STCK2	-53.00	-52.69	-50.77	-47.31	-42.42	-36.23
XBADJ	STCK2	-34.80	-32.77	-29.75	-25.83	-21.12	-15.76
XBADJ	STCK2	-9.93	-3.80	2.45	-1.49	-6.31	-10.94
XBADJ	STCK2	-15.23	-19.06	-22.31	-24.89	-26.70	-27.71
XBADJ	STCK3	-53.67	-56.93	-58.45	10.79	2.72	-5.42
XBADJ	STCK3	-13.40	-40.38	0.00	-30.92	-28.44	-25.10
XBADJ	STCK3	-21.00	-101.01	-107.94	-111.58	-111.84	-109.50
XBADJ	STCK3	-126.86	-140.37	-149.62	-154.32	-154.33	-149.65
XBADJ	STCK3	-140.42	-34.30	0.00	-43.74	-50.27	-55.26
XBADJ	STCK3	-58.58	-41.51	-22.27	-2.35	17.65	-48.79
XBADJ	STCK4	16.77	-4.47	-25.59	-59.39	-57.49	-53.83
XBADJ	STCK4	-48.55	-41.78	0.00	-32.27	-146.03	-154.67
XBADJ	STCK4	-158.61	-157.73	-152.06	-141.77	-127.17	-109.51
XBADJ	STCK4	-111.55	-110.21	-105.51	-20.12	-25.60	-30.30
XBADJ	STCK4	-34.07	-36.82	0.00	-46.48	-6.63	0.75
XBADJ	STCK4	8.10	15.21	-62.22	-59.80	-55.57	-49.65

XBADJ	STCK5	-13.38	-29.22	-44.17	-57.78	-69.63	-79.37
XBADJ	STCK5	-86.70	-91.39	-93.31	-103.01	-109.59	-112.83
XBADJ	STCK5	-112.65	-109.04	-102.12	-92.10	-79.28	-64.05
XBADJ	STCK5	-70.12	-74.06	-75.74	-75.13	-72.23	-67.14
XBADJ	STCK5	-60.01	-51.06	-41.01	-39.73	-37.24	-33.62
XBADJ	STCK5	-28.98	-23.46	-17.22	-10.46	-3.39	2.87
XBADJ	STCK6	-3.00	-9.61	-15.93	-21.77	-26.95	-31.31
XBADJ	STCK6	-34.71	-37.06	-38.83	-49.60	-58.86	-66.33
XBADJ	STCK6	-71.79	-75.07	-76.06	-74.75	-71.16	-67.03
XBADJ	STCK6	-82.67	-95.79	-106.01	-113.00	-116.57	-116.58
XBADJ	STCK6	-113.06	-106.10	-97.54	-95.51	-90.57	-82.89
XBADJ	STCK6	-72.68	-60.27	-46.02	-30.38	-13.82	3.17
XBADJ	STCK7	-13.24	-30.06	-45.96	-60.47	-73.13	-83.58
XBADJ	STCK7	-91.49	-96.62	-99.35	-109.25	-115.82	-118.88
XBADJ	STCK7	-118.32	-114.17	-106.56	-95.70	-81.93	-67.30
XBADJ	STCK7	-72.42	-75.35	-75.98	-74.31	-70.38	-64.31
XBADJ	STCK7	-56.28	-46.55	-37.02	-35.86	-33.61	-30.34
XBADJ	STCK7	-26.15	-21.16	-15.53	-9.43	-3.04	3.44
XBADJ	STCK8	-36.72	-41.69	-45.39	-47.71	-48.58	-47.98
XBADJ	STCK8	-45.92	-42.46	-37.71	-42.74	-46.47	-48.79
XBADJ	STCK8	-49.63	-48.96	-46.80	-43.22	-38.33	-32.27
XBADJ	STCK8	-31.24	-29.25	-26.38	-22.71	-18.35	-13.42
XBADJ	STCK8	-8.10	-2.52	3.13	-2.20	-7.46	-12.49
XBADJ	STCK8	-17.14	-21.28	-24.76	-27.50	-29.39	-30.64
XBADJ	STCK9	-1.18	-7.26	-13.12	-18.58	-23.47	-27.66
XBADJ	STCK9	-31.00	-33.40	0.00	-46.34	-56.16	-64.28
XBADJ	STCK9	-70.44	-74.47	-76.23	-75.67	-72.82	-68.08
XBADJ	STCK9	-84.56	-98.46	-109.38	-116.97	-121.01	-121.37
XBADJ	STCK9	-118.04	-111.13	0.00	-99.04	-93.58	-85.27
XBADJ	STCK9	-74.37	-61.21	-46.19	-29.77	-12.45	4.59
XBADJ	STCK10	-12.64	-28.32	-43.14	-56.65	-68.43	-78.14
XBADJ	STCK10	-85.47	-90.21	-92.53	-102.63	-109.61	-113.25
XBADJ	STCK10	-113.46	-110.22	-103.63	-93.89	-81.30	-66.57
XBADJ	STCK10	-73.10	-77.41	-79.36	-78.91	-76.05	-70.89
XBADJ	STCK10	-63.57	-54.32	-44.08	-42.76	-40.14	-36.30
XBADJ	STCK10	-31.36	-25.46	-18.79	-11.55	-3.96	3.08
XBADJ	STCK11	-0.52	-6.88	-13.04	-18.80	-23.99	-28.45
XBADJ	STCK11	-32.04	-34.66	0.00	-45.97	-55.98	-64.28
XBADJ	STCK11	-70.64	-74.84	-76.77	-76.37	-73.65	-68.69
XBADJ	STCK11	-85.55	-100.15	-111.71	-119.88	-124.40	-125.14
XBADJ	STCK11	-122.08	-115.31	0.00	-101.87	-95.94	-87.09
XBADJ	STCK11	-75.59	-61.80	-46.13	-29.06	-11.10	5.53
XBADJ	STCK12	-12.81	-30.05	-46.37	-61.28	-74.33	-85.12

XBADJ	STCK12	-93.33	-98.70	-101.07	-109.65	-116.55	-119.91
XBADJ	STCK12	-119.63	-115.71	-108.28	-97.56	-83.87	-67.64
XBADJ	STCK12	-73.26	-76.99	-78.38	-77.39	-74.05	-68.46
XBADJ	STCK12	-60.79	-51.28	-40.20	-38.20	-35.37	-31.46
XBADJ	STCK12	-26.60	-20.92	-14.62	-7.87	-0.88	4.48
XBADJ	STCK13	-92.74	-86.96	-78.54	-67.73	-54.87	-40.33
XBADJ	STCK13	-24.57	-8.07	8.68	4.43	-0.18	-4.79
XBADJ	STCK13	-9.25	-13.42	-17.19	-20.44	-23.06	0.00
XBADJ	STCK13	-38.49	-49.89	-59.78	-67.86	-73.87	-77.64
XBADJ	STCK13	-79.05	-78.05	-75.15	-90.68	-103.46	-113.09
XBADJ	STCK13	-119.29	-121.86	-120.73	-115.93	-107.61	0.00
XBADJ	STCK14	-29.31	-26.73	-23.35	-19.25	-14.57	-9.45
XBADJ	STCK14	-4.04	1.49	6.98	-8.49	-23.91	-38.61
XBADJ	STCK14	-52.14	-64.09	-74.08	-81.83	-87.09	0.00
XBADJ	STCK14	-101.92	-110.12	-114.97	-116.34	-114.16	-108.52
XBADJ	STCK14	-99.58	-87.62	-73.45	-77.77	-79.73	-79.26
XBADJ	STCK14	-76.39	-71.20	-63.84	-54.54	-43.59	0.00
XBADJ	STCK15	-0.36	-6.65	-12.73	-18.42	-23.56	-27.98
XBADJ	STCK15	-31.55	-34.16	0.00	-45.47	-55.16	-63.18
XBADJ	STCK15	-69.27	-73.26	-75.02	-74.51	-71.73	-66.77
XBADJ	STCK15	-83.34	-97.37	-108.44	-116.22	-120.47	-121.06
XBADJ	STCK15	-117.97	-111.30	0.00	-98.79	-93.33	-85.04
XBADJ	STCK15	-74.17	-61.04	-46.06	-29.67	-12.39	5.27
XBADJ	STCK16	-9.63	-26.60	-42.76	-57.62	-70.73	-81.69
XBADJ	STCK16	-90.17	-95.91	0.00	-107.81	-114.94	-118.59
XBADJ	STCK16	-118.62	-115.06	-108.00	-97.65	-84.34	-68.47
XBADJ	STCK16	-74.07	-77.42	-78.42	-77.03	-73.31	-67.35
XBADJ	STCK16	-59.35	-49.55	0.00	-36.45	-33.55	-29.63
XBADJ	STCK16	-24.81	-19.24	-13.08	-6.53	0.22	6.97
XBADJ	STCK18	1.06	-5.36	-11.61	-17.51	-22.88	-27.55
XBADJ	STCK18	-31.39	-34.27	0.00	-48.58	-58.84	-67.33
XBADJ	STCK18	-73.76	-77.96	-79.78	-79.18	-76.18	-70.86
XBADJ	STCK18	-86.43	-100.02	-110.58	-117.77	-121.39	-121.32
XBADJ	STCK18	-117.56	-110.23	0.00	-96.82	-91.14	-82.70
XBADJ	STCK18	-71.74	-58.60	-43.69	-27.44	-10.36	7.03
XBADJ	STCK19	-11.85	-29.09	-45.44	-60.41	-73.54	-84.44
XBADJ	STCK19	-92.78	-98.29	0.00	-112.01	-119.07	-122.52
XBADJ	STCK19	-122.24	-118.25	-110.66	-99.72	-85.74	-69.16
XBADJ	STCK19	-73.52	-76.29	-76.75	-74.88	-70.73	-64.43
XBADJ	STCK19	-56.17	-46.21	0.00	-33.39	-30.92	-27.51
XBADJ	STCK19	-23.26	-18.31	-12.80	-6.91	-0.80	5.33
XBADJ	STCK20	-73.62	-76.33	-76.72	-74.78	-70.56	-64.20
XBADJ	STCK20	-55.89	-45.88	0.00	-33.00	-30.52	-27.11
XBADJ	STCK20	-22.88	-17.95	-12.48	-6.62	-0.57	5.50

XBADJ	STCK20	-11.75	-29.64	-46.63	-62.20	-75.89	-87.27
XBADJ	STCK20	-95.99	-101.80	0.00	-114.03	-120.74	-123.78
XBADJ	STCK20	-123.06	-118.61	-110.55	-99.13	-84.69	-68.68
XBADJ	STCK21	-87.03	-101.88	-113.64	-121.94	-126.54	-127.30
XBADJ	STCK21	-124.19	-117.30	0.00	-104.12	-98.23	-89.36
XBADJ	STCK21	-77.77	-63.82	-47.93	-30.58	-12.30	6.35
XBADJ	STCK21	1.66	-4.09	-9.71	-15.04	-19.90	-24.17
XBADJ	STCK21	-27.70	-30.39	0.00	-42.90	-53.02	-61.53
XBADJ	STCK21	-68.17	-72.74	-75.10	-75.17	-72.97	-69.53
XBADJ	STCK22	-44.68	-50.32	-54.42	-56.87	-57.60	-56.57
XBADJ	STCK22	-53.82	-49.44	-44.69	-48.85	-51.53	-52.64
XBADJ	STCK22	-52.16	-50.08	-46.49	-41.48	-35.22	0.00
XBADJ	STCK22	-25.59	-23.37	-20.43	-16.88	-12.81	-8.35
XBADJ	STCK22	-3.64	1.18	5.69	-0.89	-7.45	-13.78
XBADJ	STCK22	-19.69	-25.00	-29.55	-33.21	-35.85	0.00
XBADJ	STCK23	-32.13	-29.50	-25.97	-131.22	-147.25	-158.82
XBADJ	STCK23	-165.56	-167.26	-163.89	-166.51	-164.07	-156.64
XBADJ	STCK23	-144.45	-127.88	-23.62	-26.99	-29.53	0.00
XBADJ	STCK23	-37.80	-43.07	-47.04	-5.76	0.81	7.35
XBADJ	STCK23	13.67	-44.57	-40.65	-45.87	12.81	5.75
XBADJ	STCK23	-1.49	-8.68	-49.44	-45.50	-40.17	0.00
XBADJ	STCK24	-99.77	-93.61	-84.59	-73.01	-59.21	-43.61
XBADJ	STCK24	-26.68	-8.95	5.97	0.28	-5.41	-10.94
XBADJ	STCK24	-16.14	-20.84	-24.92	-28.24	-30.69	0.00
XBADJ	STCK24	-43.91	-55.11	-64.64	-72.20	-77.57	-80.58
XBADJ	STCK24	-81.15	-79.25	-75.79	-92.46	-106.32	-116.95
XBADJ	STCK24	-124.03	-127.34	-126.78	-122.36	-114.23	0.00
XBADJ	STCK25	-28.36	-25.31	-21.49	-17.02	-12.04	-6.69
XBADJ	STCK25	-1.13	4.46	6.82	-11.45	-29.36	-46.39
XBADJ	STCK25	-62.00	-75.74	-87.17	-95.95	-101.82	0.00
XBADJ	STCK25	-115.32	-123.41	-127.74	-128.19	-124.74	-117.51
XBADJ	STCK25	-106.70	-92.65	-76.64	-80.73	-82.37	-81.50
XBADJ	STCK25	-78.16	-72.44	-64.53	-54.65	-43.11	0.00
XBADJ	STCK26	-1.72	-8.68	-15.37	-21.59	-27.16	-31.91
XBADJ	STCK26	-35.68	-38.38	0.00	-52.52	-64.19	-73.91
XBADJ	STCK26	-81.38	-86.37	-88.75	-88.42	-85.41	-80.64
XBADJ	STCK26	-96.16	-108.75	-118.04	-123.75	-125.69	-123.81
XBADJ	STCK26	-118.18	-108.95	0.00	-94.04	-88.80	-80.86
XBADJ	STCK26	-70.46	-57.92	-43.62	-28.00	-11.53	5.29
XBADJ	STCK27	-10.30	-26.58	-42.05	-56.25	-68.73	-79.13
XBADJ	STCK27	-87.12	-92.46	0.00	-106.96	-116.31	-122.12
XBADJ	STCK27	-124.23	-122.56	-117.16	-108.21	-95.97	-81.64
XBADJ	STCK27	-87.57	-90.85	-91.36	-89.09	-84.12	-76.60
XBADJ	STCK27	-66.74	-54.86	0.00	-39.61	-36.68	-32.64

XBADJ	STCK27	-27.61	-21.74	-15.21	-8.22	-0.97	6.29
XBADJ	STCK28	-36.75	-34.03	-30.27	-133.31	-149.74	-161.63
XBADJ	STCK28	-168.60	-170.46	-167.13	-171.04	-170.38	-164.55
XBADJ	STCK28	-153.73	-138.23	-31.33	-34.98	-37.58	0.00
XBADJ	STCK28	-45.43	-50.45	-53.94	-12.03	-3.11	5.91
XBADJ	STCK28	14.74	-46.45	-41.48	-47.43	17.39	9.79
XBADJ	STCK28	1.89	-6.07	-53.55	-49.78	-44.51	0.00
XBADJ	STCK29	-108.66	-101.50	-91.26	-78.25	-62.86	-45.56
XBADJ	STCK29	-26.88	-7.37	-80.19	-92.71	-102.41	-109.00
XBADJ	STCK29	-112.27	-112.14	-108.60	-32.69	-36.32	0.00
XBADJ	STCK29	-50.65	-62.11	-71.69	-79.08	-84.07	-86.51
XBADJ	STCK29	-86.32	-83.51	-79.36	-97.69	-113.05	-124.98
XBADJ	STCK29	-133.11	-137.20	-137.12	-132.87	-124.58	0.00
XBADJ	STCK30	-44.03	-39.87	-34.50	-28.08	-20.81	-12.90
XBADJ	STCK30	-4.61	3.83	10.96	-7.35	-25.45	-42.76
XBADJ	STCK30	-58.78	-73.01	-85.03	-94.46	-101.02	0.00
XBADJ	STCK30	-115.28	-123.74	-128.45	-129.25	-126.13	-119.17
XBADJ	STCK30	-108.59	-94.72	-79.16	-86.09	-90.41	-91.98
XBADJ	STCK30	-90.75	-86.77	-80.15	-71.10	-59.88	0.00
XBADJ	STCK31	-43.69	-40.41	-120.86	-139.99	-154.86	-165.03
XBADJ	STCK31	-170.19	-170.17	-164.98	-166.84	-163.94	-156.05
XBADJ	STCK31	-143.43	-126.45	-24.24	-27.62	-30.17	0.00
XBADJ	STCK31	-38.23	-43.81	-10.24	-3.54	3.26	9.96
XBADJ	STCK31	16.36	-46.41	-42.82	-50.15	11.28	2.14
XBADJ	STCK31	-7.08	-16.07	-61.20	-57.82	-52.69	0.00
XBADJ	STCK32	-86.24	-89.24	-89.54	-87.12	-82.04	-74.48
XBADJ	STCK32	-64.65	-52.86	0.00	-36.92	-33.57	-29.20
XBADJ	STCK32	-23.94	-17.96	-11.43	-4.55	2.47	8.61
XBADJ	STCK32	-8.54	-25.44	-41.56	-56.42	-69.56	-80.59
XBADJ	STCK32	-89.17	-95.05	0.00	-109.83	-119.08	-124.72
XBADJ	STCK32	-126.56	-124.56	-118.78	-109.38	-96.66	-81.01
XBADJ	STCK33	-97.70	-112.44	-123.77	-131.33	-134.91	-134.38
XBADJ	STCK33	-129.78	-121.22	0.00	-105.50	-99.12	-89.72
XBADJ	STCK33	-77.60	-63.12	-46.73	-28.91	-10.22	7.99
XBADJ	STCK33	2.92	-2.24	-7.33	-12.20	-16.70	-20.69
XBADJ	STCK33	-24.05	-26.68	0.00	-41.25	-53.53	-64.19
XBADJ	STCK33	-72.90	-79.39	-83.47	-85.02	-83.98	-80.39
XBADJ	STCK34	-54.03	-54.70	-53.71	-108.72	-115.95	-119.65
XBADJ	STCK34	-119.72	-116.15	0.00	-16.39	-14.45	-12.06
XBADJ	STCK34	-9.31	-6.28	-107.28	-112.42	-114.15	-112.41
XBADJ	STCK34	-113.02	-110.51	-104.64	-8.63	-12.11	-15.23
XBADJ	STCK34	-17.88	-19.99	0.00	-31.35	-38.96	-45.38
XBADJ	STCK34	-50.43	-53.94	-55.81	-55.99	-54.47	-51.72

YBADJ	STCK1	-26.78	-19.66	-11.94	-3.86	4.34	12.41
YBADJ	STCK1	20.10	27.18	32.97	38.18	42.22	44.98
YBADJ	STCK1	46.38	46.36	44.94	42.15	38.09	33.09
YBADJ	STCK1	26.78	19.66	11.94	3.86	-4.34	-12.41
YBADJ	STCK1	-20.10	-27.18	-32.97	-38.18	-42.22	-44.98
YBADJ	STCK1	-46.38	-46.36	-44.94	-42.15	-38.09	-33.09
YBADJ	STCK2	21.50	21.27	20.39	18.89	16.81	14.23
YBADJ	STCK2	11.21	7.86	4.26	1.13	-2.72	-6.48
YBADJ	STCK2	-10.05	-13.32	-16.18	-18.55	-20.35	-21.54
YBADJ	STCK2	-21.50	-21.27	-20.39	-18.89	-16.81	-14.23
YBADJ	STCK2	-11.21	-7.86	-4.26	-1.13	2.72	6.48
YBADJ	STCK2	10.05	13.32	16.18	18.55	20.35	21.54
YBADJ	STCK3	-6.41	-10.91	-15.08	15.76	29.75	42.84
YBADJ	STCK3	54.62	-27.07	0.00	-26.68	-25.15	-22.85
YBADJ	STCK3	-19.86	78.53	72.11	63.51	52.98	40.83
YBADJ	STCK3	27.32	13.21	-1.29	-15.76	-29.75	-42.84
YBADJ	STCK3	-54.62	27.07	0.00	26.68	25.15	22.85
YBADJ	STCK3	19.86	-78.53	-72.11	-63.51	-52.98	-1.72
YBADJ	STCK4	59.57	69.70	77.71	-19.54	-22.65	-25.08
YBADJ	STCK4	-26.74	-27.59	0.00	-26.77	52.87	39.96
YBADJ	STCK4	25.85	10.94	-4.29	-19.39	-33.91	-47.40
YBADJ	STCK4	-59.57	-69.70	-77.71	19.54	22.65	25.08
YBADJ	STCK4	26.74	27.59	0.00	26.77	-52.87	-39.96
YBADJ	STCK4	-25.85	-10.94	11.77	7.24	2.48	-2.35
YBADJ	STCK5	31.64	36.17	39.61	41.84	42.79	42.45
YBADJ	STCK5	40.82	37.95	33.46	28.37	22.42	15.79
YBADJ	STCK5	8.68	1.30	-6.12	-13.35	-20.17	-26.15
YBADJ	STCK5	-31.64	-36.17	-39.61	-41.84	-42.79	-42.45
YBADJ	STCK5	-40.82	-37.95	-33.46	-28.37	-22.42	-15.79
YBADJ	STCK5	-8.68	-1.30	6.12	13.35	20.17	26.15
YBADJ	STCK6	-22.95	-15.86	-8.28	-0.45	7.40	15.02
YBADJ	STCK6	22.18	28.67	35.10	39.84	43.09	45.04
YBADJ	STCK6	45.62	44.81	42.64	39.17	34.52	29.35
YBADJ	STCK6	22.95	15.86	8.28	0.45	-7.40	-15.02
YBADJ	STCK6	-22.18	-28.67	-35.10	-39.84	-43.09	-45.04
YBADJ	STCK6	-45.62	-44.81	-42.64	-39.17	-34.52	-29.35
YBADJ	STCK7	36.69	41.11	44.27	46.09	46.51	45.51
YBADJ	STCK7	43.13	39.45	35.37	29.59	22.65	15.01
YBADJ	STCK7	6.92	-1.38	-9.64	-17.60	-25.03	-31.16
YBADJ	STCK7	-36.69	-41.11	-44.27	-46.09	-46.51	-45.51
YBADJ	STCK7	-43.13	-39.45	-35.37	-29.59	-22.65	-15.01
YBADJ	STCK7	-6.92	1.38	9.64	17.60	25.03	31.16
YBADJ	STCK8	20.27	19.51	18.15	16.24	13.84	11.02
YBADJ	STCK8	7.86	4.47	0.82	-2.74	-6.22	-9.50

YBADJ	STCK8	-12.50	-15.12	-17.28	-18.91	-19.97	-20.42
YBADJ	STCK8	-20.27	-19.51	-18.15	-16.24	-13.84	-11.02
YBADJ	STCK8	-7.86	-4.47	-0.81	2.74	6.22	9.50
YBADJ	STCK8	12.50	15.12	17.28	18.91	19.97	20.42
YBADJ	STCK9	-26.35	-18.71	-10.50	-1.96	6.63	15.02
YBADJ	STCK9	22.95	30.19	0.00	41.69	45.60	48.13
YBADJ	STCK9	49.20	48.77	46.86	43.52	38.87	33.19
YBADJ	STCK9	26.35	18.71	10.50	1.96	-6.63	-15.02
YBADJ	STCK9	-22.95	-30.19	0.00	-41.69	-45.60	-48.13
YBADJ	STCK9	-49.20	-48.77	-46.86	-43.52	-38.87	-33.19
YBADJ	STCK10	29.93	34.73	38.48	41.05	42.38	42.42
YBADJ	STCK10	41.17	38.67	34.82	30.23	24.54	18.11
YBADJ	STCK10	11.13	3.81	-3.62	-10.95	-17.94	-24.23
YBADJ	STCK10	-29.93	-34.73	-38.48	-41.05	-42.38	-42.42
YBADJ	STCK10	-41.17	-38.67	-34.83	-30.23	-24.54	-18.11
YBADJ	STCK10	-11.13	-3.81	3.62	10.95	17.94	24.23
YBADJ	STCK11	-27.95	-19.98	-11.40	-2.48	6.52	15.32
YBADJ	STCK11	23.66	31.27	0.00	42.52	46.63	49.34
YBADJ	STCK11	50.54	50.21	48.35	45.02	40.33	34.40
YBADJ	STCK11	27.95	19.98	11.40	2.48	-6.52	-15.32
YBADJ	STCK11	-23.66	-31.27	0.00	-42.52	-46.63	-49.34
YBADJ	STCK11	-50.54	-50.21	-48.35	-45.02	-40.33	-34.40
YBADJ	STCK12	35.72	40.59	44.23	46.52	47.40	46.83
YBADJ	STCK12	44.85	41.50	36.06	30.22	23.47	16.01
YBADJ	STCK12	8.06	-0.14	-8.33	-16.27	-23.71	-30.44
YBADJ	STCK12	-35.72	-40.59	-44.23	-46.52	-47.40	-46.83
YBADJ	STCK12	-44.85	-41.50	-36.06	-30.22	-23.47	-16.01
YBADJ	STCK12	-8.06	0.14	8.33	16.27	23.71	30.44
YBADJ	STCK13	-47.55	-51.64	-54.15	-55.02	-54.22	-51.77
YBADJ	STCK13	-47.75	-42.27	-35.05	-27.13	-18.53	-9.38
YBADJ	STCK13	0.06	9.50	18.65	27.24	34.99	0.00
YBADJ	STCK13	47.55	51.64	54.15	55.02	54.22	51.77
YBADJ	STCK13	47.75	42.27	35.05	27.13	18.53	9.38
YBADJ	STCK13	-0.06	-9.50	-18.65	-27.24	-34.99	0.00
YBADJ	STCK14	-34.64	-27.91	-20.32	-12.12	-3.56	5.12
YBADJ	STCK14	13.64	21.75	29.66	36.31	41.69	45.81
YBADJ	STCK14	48.54	49.79	49.54	47.77	44.55	0.00
YBADJ	STCK14	34.64	27.91	20.32	12.12	3.56	-5.12
YBADJ	STCK14	-13.64	-21.75	-29.66	-36.31	-41.69	-45.81
YBADJ	STCK14	-48.54	-49.79	-49.54	-47.77	-44.55	0.00
YBADJ	STCK15	-26.66	-19.08	-10.93	-2.45	6.11	14.48
YBADJ	STCK15	22.42	29.67	0.00	41.49	45.36	47.86
YBADJ	STCK15	48.90	48.46	46.54	43.21	38.57	32.76
YBADJ	STCK15	26.66	19.08	10.93	2.45	-6.11	-14.48

YBADJ	STCK15	-22.42	-29.67	0.00	-41.49	-45.36	-47.86
YBADJ	STCK15	-48.90	-48.46	-46.54	-43.21	-38.57	-32.75
YBADJ	STCK16	35.68	40.70	44.48	46.91	47.91	47.46
YBADJ	STCK16	45.56	42.28	0.00	32.22	25.41	17.83
YBADJ	STCK16	9.71	1.29	-7.17	-15.41	-23.18	-30.24
YBADJ	STCK16	-35.68	-40.70	-44.48	-46.91	-47.91	-47.46
YBADJ	STCK16	-45.56	-42.28	0.00	-32.22	-25.41	-17.83
YBADJ	STCK16	-9.71	-1.29	7.17	15.41	23.18	30.25
YBADJ	STCK18	-24.12	-16.15	-7.69	1.01	9.68	18.05
YBADJ	STCK18	25.87	32.91	0.00	43.74	47.33	49.48
YBADJ	STCK18	50.13	49.26	46.88	43.09	37.98	31.36
YBADJ	STCK18	24.12	16.15	7.69	-1.01	-9.68	-18.05
YBADJ	STCK18	-25.87	-32.91	0.00	-43.74	-47.33	-49.48
YBADJ	STCK18	-50.13	-49.26	-46.88	-43.09	-37.98	-31.36
YBADJ	STCK19	39.31	44.08	47.50	49.49	49.97	48.93
YBADJ	STCK19	46.41	42.47	0.00	30.83	23.60	15.66
YBADJ	STCK19	7.23	-1.41	-10.01	-18.30	-26.04	-33.35
YBADJ	STCK19	-39.31	-44.08	-47.50	-49.49	-49.97	-48.93
YBADJ	STCK19	-46.41	-42.47	0.00	-30.83	-23.60	-15.66
YBADJ	STCK19	-7.23	1.41	10.01	18.30	26.04	33.35
YBADJ	STCK20	-40.51	-45.11	-48.34	-50.09	-50.33	-49.03
YBADJ	STCK20	-46.25	-42.06	0.00	-30.94	-23.35	-15.04
YBADJ	STCK20	-6.29	2.66	11.53	20.05	27.96	35.02
YBADJ	STCK20	40.51	45.11	48.34	50.09	50.33	49.03
YBADJ	STCK20	46.25	42.06	0.00	30.94	23.35	15.04
YBADJ	STCK20	6.29	-2.66	-11.53	-20.05	-27.96	-35.02
YBADJ	STCK21	30.61	22.61	13.91	4.80	-4.46	-13.59
YBADJ	STCK21	-22.30	-30.33	0.00	-44.34	-48.90	-51.97
YBADJ	STCK21	-53.45	-53.32	-51.57	-48.24	-43.46	-37.35
YBADJ	STCK21	-30.61	-22.61	-13.91	-4.80	4.46	13.59
YBADJ	STCK21	22.30	30.33	0.00	44.34	48.90	51.97
YBADJ	STCK21	53.45	53.32	51.57	48.24	43.46	37.35
YBADJ	STCK22	23.98	22.04	19.43	16.23	12.54	8.47
YBADJ	STCK22	4.14	-0.32	-4.90	-9.54	-13.47	-16.99
YBADJ	STCK22	-20.00	-22.39	-24.11	-25.09	-25.31	0.00
YBADJ	STCK22	-23.98	-22.04	-19.43	-16.23	-12.54	-8.47
YBADJ	STCK22	-4.14	0.32	4.91	9.54	13.47	16.99
YBADJ	STCK22	20.00	22.39	24.11	25.09	25.31	0.00
YBADJ	STCK23	-23.56	-22.69	-21.14	71.48	59.60	45.90
YBADJ	STCK23	30.81	14.79	-2.18	-19.03	-34.80	-49.52
YBADJ	STCK23	-62.73	-74.03	19.45	21.35	22.59	0.00
YBADJ	STCK23	23.56	22.69	21.14	-71.48	-59.60	-45.90
YBADJ	STCK23	-30.81	5.32	1.20	-2.83	34.80	49.52
YBADJ	STCK23	62.73	74.03	-19.45	-21.35	-22.59	0.00

YBADJ	STCK24	-46.37	-50.46	-53.01	-53.95	-53.25	-50.93
YBADJ	STCK24	-47.06	-41.77	-35.35	-27.93	-19.25	-9.98
YBADJ	STCK24	-0.40	9.18	18.49	27.23	35.15	0.00
YBADJ	STCK24	46.37	50.46	53.01	53.95	53.25	50.93
YBADJ	STCK24	47.06	41.77	35.35	27.93	19.25	9.98
YBADJ	STCK24	0.40	-9.18	-18.49	-27.23	-35.15	0.00
YBADJ	STCK25	-34.64	-26.50	-17.56	-8.08	1.65	11.32
YBADJ	STCK25	20.65	29.35	37.03	43.48	49.05	53.12
YBADJ	STCK25	55.58	56.35	55.41	52.78	48.55	0.00
YBADJ	STCK25	34.64	26.50	17.56	8.08	-1.65	-11.32
YBADJ	STCK25	-20.65	-29.35	-37.03	-43.48	-49.05	-53.12
YBADJ	STCK25	-55.58	-56.35	-55.41	-52.78	-48.55	0.00
YBADJ	STCK26	-20.76	-12.31	-3.48	5.46	14.22	22.56
YBADJ	STCK26	30.21	36.94	0.00	47.22	50.04	51.34
YBADJ	STCK26	51.08	49.26	45.95	41.25	35.29	28.26
YBADJ	STCK26	20.76	12.31	3.48	-5.46	-14.23	-22.56
YBADJ	STCK26	-30.21	-36.94	0.00	-47.22	-50.04	-51.34
YBADJ	STCK26	-51.08	-49.26	-45.95	-41.25	-35.29	-28.27
YBADJ	STCK27	33.68	39.81	44.74	48.31	50.41	50.98
YBADJ	STCK27	50.00	47.50	0.00	38.64	32.13	24.65
YBADJ	STCK27	16.42	7.70	-1.27	-10.19	-18.80	-26.84
YBADJ	STCK27	-33.68	-39.81	-44.74	-48.31	-50.41	-50.98
YBADJ	STCK27	-50.00	-47.50	0.00	-38.64	-32.13	-24.65
YBADJ	STCK27	-16.42	-7.70	1.27	10.19	18.80	26.83
YBADJ	STCK28	-22.76	-21.62	-19.82	77.81	66.08	52.34
YBADJ	STCK28	37.01	20.56	3.89	-13.35	-30.19	-46.11
YBADJ	STCK28	-60.64	-73.32	20.17	21.82	22.80	0.00
YBADJ	STCK28	22.76	21.62	19.82	-77.81	-66.08	-52.34
YBADJ	STCK28	-37.01	3.47	-0.34	-4.34	30.19	46.11
YBADJ	STCK28	60.64	73.32	-20.17	-21.82	-22.80	0.00
YBADJ	STCK29	-50.97	-55.13	-57.61	-58.35	-57.31	-54.53
YBADJ	STCK29	-50.09	-44.13	40.41	29.02	16.75	3.97
YBADJ	STCK29	-8.93	-21.56	-33.53	29.72	38.07	0.00
YBADJ	STCK29	50.97	55.13	57.61	58.34	57.31	54.53
YBADJ	STCK29	50.09	44.13	36.83	29.00	19.69	9.79
YBADJ	STCK29	-0.42	-10.61	-20.48	-29.72	-38.07	0.00
YBADJ	STCK30	-39.37	-32.48	-24.61	-15.99	-6.88	2.44
YBADJ	STCK30	11.68	20.57	28.83	35.62	41.94	46.98
YBADJ	STCK30	50.59	52.66	53.13	51.99	49.27	0.00
YBADJ	STCK30	39.37	32.48	24.61	15.99	6.88	-2.44
YBADJ	STCK30	-11.68	-20.57	-28.83	-35.62	-41.94	-46.98
YBADJ	STCK30	-50.59	-52.66	-53.13	-51.99	-49.27	0.00
YBADJ	STCK31	-25.56	-25.64	79.09	68.18	55.19	40.52

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   YBADJ    STCK31          24.62     7.98    -8.51   -24.89   -40.72   -55.31
   YBADJ    STCK31         -68.22   -79.06    17.59    20.51    22.80     0.00
   YBADJ    STCK31          25.56    25.64   -79.09   -68.18   -55.19   -40.52
   YBADJ    STCK31         -24.62    11.26     7.08     2.73    40.72    55.31
   YBADJ    STCK31          68.22    79.06   -17.59   -20.51   -22.80     0.00

   YBADJ    STCK32         -36.45   -42.76   -47.76   -51.31   -53.30   -53.68
   YBADJ    STCK32         -52.42   -49.57     0.00   -38.85   -31.90   -23.99
   YBADJ    STCK32         -15.35    -6.24     3.06    12.26    21.09    29.29
   YBADJ    STCK32          36.45    42.76    47.76    51.31    53.30    53.68
   YBADJ    STCK32          52.42    49.57     0.00    38.85    31.90    23.99
   YBADJ    STCK32          15.35     6.24    -3.06   -12.26   -21.09   -29.29

   YBADJ    STCK33          32.13    22.79    12.77     2.35    -8.13   -18.37
   YBADJ    STCK33         -28.05   -36.88     0.00   -50.31   -55.10   -58.22
   YBADJ    STCK33         -59.57   -59.11   -56.85   -52.86   -47.27   -40.24
   YBADJ    STCK33         -32.13   -22.79   -12.77    -2.35     8.13    18.37
   YBADJ    STCK33          28.05    36.88     0.00    50.31    55.10    58.22
   YBADJ    STCK33          59.57    59.11    56.85    52.86    47.27    40.24

   YBADJ    STCK34          -7.48   -12.25   -16.66    37.36    24.82    11.52
   YBADJ    STCK34          -2.13   -15.71     0.00   -28.48   -26.86   -24.41
   YBADJ    STCK34         -21.23   -17.40    34.98    23.21    10.74    -1.75
   YBADJ    STCK34         -14.49   -26.79   -38.28    20.56    23.83    26.38
   YBADJ    STCK34          28.13    29.02     0.00    28.48    26.86    24.41
   YBADJ    STCK34          21.23    17.40    13.04     8.29     3.28    -2.48

   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
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**
**
RE STARTING
   INCLUDED "6627b DHS 109 - 1st 14 yrs.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\DesertHotSpringsAirportADJU\KTRM_V9_ADJU\KTRM_v9.SFC
   PROFFILE "..\..\..\..\..\Dropbox\Kunzman\Projects\6627 DHS 109\HRA\KTRM_V9_ADJU\KTRM_v9.PFL"
   SURFDATA 3104 2012
   UAIRDATA 3190 2012
   PROFBASE -36.0 METERS
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ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD ALL "6627B DHS 109 - 1ST 14 YRS.AD\PE00GALL.PLT" 31
   SUMMFILE "6627b DHS 109 - 1st 14 yrs.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of           36 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


    ********   WARNING MESSAGES   ********
 SO W320    4337        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    4338        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    4339        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    4340        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5953        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5954        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5955        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5956        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5957        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5958        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5959        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5960        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5961        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5962        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5963        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5964        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5965        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5966        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5967        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5968        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5969        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5970        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5971        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
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SO W320    5972        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5973        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5974        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5975        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5976        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5977        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5978        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5979        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5980        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5981        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
ME W340    9231       PRBASE: Possible Error in PROFBASE Input:  Value is < 0       PROFBASE
ME W186    9232       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187    9232       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

**********************************
*** SETUP Finishes Successfully ***
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*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 1st 14 yr                      ***        05/24/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 1st 14 yr                            ***        20:34:00
                                                                                                                 PAGE   1
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                        ***     MODEL SETUP OPTIONS SUMMARY       ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

**Model Is Setup For Calculation of Average CONCentration Values.

  --  DEPOSITION LOGIC  --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
**Model Uses NO WET DEPLETION.  WETDPLT  =  F

**Model Uses URBAN Dispersion Algorithm for the SBL for  3880 Source(s),
  for Total of    1 Urban Area(s):
  Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
       1. Stack-tip Downwash.
       2. Model Accounts for ELEVated Terrain Effects.
       3. Use Calms Processing Routine.
       4. Use Missing Data Processing Routine.
       5. No Exponential Decay.
       6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:
       ADJ_U*   - Use ADJ_U* option for SBL in AERMET
       CCVR_Sub - Meteorological data includes CCVR substitutions
       TEMP_Sub - Meteorological data includes TEMP substitutions
```

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**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of:  DPM

**Model Calculates PERIOD Averages Only

**This Run Includes:   3880 Source(s);       1 Source Group(s); and     454 Receptor(s)

               with:     33 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:   3847 VOLUME source(s)
                and:      0 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with      0 line(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
         Model Outputs Tables of PERIOD Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   -36.00 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                             ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =     10.5 MB of RAM.

**Input Runstream File:          aermod.inp
**Output Print File:             aermod.out

**Detailed Error/Message File:   6627b DHS 109 - 1st 14 yrs.err
**File for Summary of Results:   6627b DHS 109 - 1st 14 yrs.sum

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 1st 14 yr                      ***        05/24/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 1st 14 yr                            ***        20:34:00
                                                                                                                  PAGE   2
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** POINT SOURCE DATA ***
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SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR	EMIS RATE SCALAR VARY BY
STCK1	0	0.15000E-04	544038.8	3755457.5	288.1	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK2	0	0.15000E-04	543964.4	3755485.8	288.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK3	0	0.15000E-04	544154.1	3754819.6	276.3	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK4	0	0.15000E-04	544242.3	3754819.6	275.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK5	0	0.15000E-04	544098.1	3755457.0	287.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK6	0	0.15000E-04	544228.2	3755457.2	287.4	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK7	0	0.15000E-04	544288.7	3755456.9	287.0	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK8	0	0.15000E-04	543964.1	3755374.2	286.8	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK9	0	0.15000E-04	544038.3	3755339.9	285.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK10	0	0.15000E-04	544095.7	3755341.4	285.8	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK11	0	0.15000E-04	544222.8	3755337.4	285.2	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK12	0	0.15000E-04	544287.6	3755338.4	285.0	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK13	0	0.15000E-04	544384.0	3755372.0	284.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK14	0	0.15000E-04	544385.7	3755307.3	283.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK15	0	0.15000E-04	544039.1	3755242.6	283.6	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK16	0	0.15000E-04	544102.1	3755240.9	283.6	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK18	0	0.15000E-04	544221.3	3755240.9	283.5	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK19	0	0.15000E-04	544286.0	3755242.6	283.4	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK20	0	0.15000E-04	544163.4	3755195.7	282.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK21	0	0.15000E-04	544235.8	3755196.6	282.8	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK22	0	0.15000E-04	544091.9	3755163.4	282.4	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK23	0	0.15000E-04	544292.8	3755160.8	282.0	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK24	0	0.15000E-04	544383.3	3755192.5	282.2	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK25	0	0.15000E-04	544382.5	3755120.1	280.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK26	0	0.15000E-04	544167.2	3755002.5	279.5	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK27	0	0.15000E-04	544222.3	3755001.5	279.3	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK28	0	0.15000E-04	544294.4	3755041.5	279.8	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK29	0	0.15000E-04	544379.5	3755001.5	278.5	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK30	0	0.15000E-04	544379.7	3754935.8	277.2	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK31	0	0.15000E-04	544291.1	3754901.4	277.0	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK32	0	0.15000E-04	544165.6	3754937.7	278.3	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK33	0	0.15000E-04	544235.1	3754937.0	278.0	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK34	0	0.15000E-04	544317.6	3754820.8	275.4	3.66	366.00	51.90	0.10	YES	YES	NO	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY

L0046098	0	0.13840E-06	544360.9	3755555.2	288.1	0.00	1.70	0.76	YES
L0046099	0	0.13840E-06	544357.2	3755555.2	288.1	0.00	1.70	0.76	YES
L0046100	0	0.13840E-06	544353.6	3755555.2	288.1	0.00	1.70	0.76	YES
L0046101	0	0.13840E-06	544349.9	3755555.2	288.2	0.00	1.70	0.76	YES
L0046102	0	0.13840E-06	544346.2	3755555.1	288.2	0.00	1.70	0.76	YES
L0046103	0	0.13840E-06	544342.6	3755555.1	288.2	0.00	1.70	0.76	YES
L0046104	0	0.13840E-06	544338.9	3755555.1	288.2	0.00	1.70	0.76	YES
L0046105	0	0.13840E-06	544335.3	3755555.1	288.3	0.00	1.70	0.76	YES
L0046106	0	0.13840E-06	544331.6	3755555.0	288.3	0.00	1.70	0.76	YES
L0046107	0	0.13840E-06	544328.0	3755555.0	288.3	0.00	1.70	0.76	YES
L0046108	0	0.13840E-06	544324.3	3755555.0	288.3	0.00	1.70	0.76	YES
L0046109	0	0.13840E-06	544320.6	3755554.9	288.4	0.00	1.70	0.76	YES
L0046110	0	0.13840E-06	544317.0	3755554.9	288.4	0.00	1.70	0.76	YES
L0046111	0	0.13840E-06	544313.3	3755554.9	288.4	0.00	1.70	0.76	YES
L0046112	0	0.13840E-06	544309.7	3755554.9	288.4	0.00	1.70	0.76	YES
L0046113	0	0.13840E-06	544306.0	3755554.8	288.5	0.00	1.70	0.76	YES
L0046114	0	0.13840E-06	544302.4	3755554.8	288.5	0.00	1.70	0.76	YES
L0046115	0	0.13840E-06	544298.7	3755554.8	288.5	0.00	1.70	0.76	YES
L0046116	0	0.13840E-06	544295.0	3755554.8	288.6	0.00	1.70	0.76	YES
L0046117	0	0.13840E-06	544291.4	3755554.7	288.6	0.00	1.70	0.76	YES
L0046118	0	0.13840E-06	544287.7	3755554.7	288.6	0.00	1.70	0.76	YES
L0046119	0	0.13840E-06	544284.1	3755554.7	288.6	0.00	1.70	0.76	YES
L0046120	0	0.13840E-06	544280.4	3755554.7	288.6	0.00	1.70	0.76	YES
L0046121	0	0.13840E-06	544276.8	3755554.6	288.7	0.00	1.70	0.76	YES
L0046122	0	0.13840E-06	544273.1	3755554.6	288.7	0.00	1.70	0.76	YES
L0046123	0	0.13840E-06	544269.4	3755554.6	288.7	0.00	1.70	0.76	YES
L0046124	0	0.13840E-06	544265.8	3755554.6	288.7	0.00	1.70	0.76	YES
L0046125	0	0.13840E-06	544262.1	3755554.5	288.8	0.00	1.70	0.76	YES
L0046126	0	0.13840E-06	544258.5	3755554.5	288.8	0.00	1.70	0.76	YES
L0046127	0	0.13840E-06	544254.8	3755554.5	288.8	0.00	1.70	0.76	YES
L0046128	0	0.13840E-06	544251.1	3755554.4	288.8	0.00	1.70	0.76	YES
L0046129	0	0.13840E-06	544247.5	3755554.4	288.8	0.00	1.70	0.76	YES
L0046130	0	0.13840E-06	544243.8	3755554.4	288.9	0.00	1.70	0.76	YES
L0046131	0	0.13840E-06	544240.2	3755554.4	288.9	0.00	1.70	0.76	YES
L0046132	0	0.13840E-06	544236.5	3755554.3	288.9	0.00	1.70	0.76	YES
L0046133	0	0.13840E-06	544232.9	3755554.3	288.9	0.00	1.70	0.76	YES
L0046134	0	0.13840E-06	544229.2	3755554.3	288.9	0.00	1.70	0.76	YES
L0046135	0	0.13840E-06	544225.5	3755554.3	289.0	0.00	1.70	0.76	YES
L0046136	0	0.13840E-06	544221.9	3755554.2	289.0	0.00	1.70	0.76	YES
L0046137	0	0.13840E-06	544218.2	3755554.2	289.0	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER	EMISSION RATE	BASE	RELEASE	INIT.	INIT.	URBAN	EMISSION RATE

SOURCE ID	PART. CATS.	(GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE	SCALAR VARY BY
L0046138	0	0.13840E-06	544214.6	3755554.2	289.0	0.00	1.70	0.76	YES	
L0046139	0	0.13840E-06	544210.9	3755554.2	289.1	0.00	1.70	0.76	YES	
L0046140	0	0.13840E-06	544207.3	3755554.1	289.1	0.00	1.70	0.76	YES	
L0046141	0	0.13840E-06	544203.6	3755554.1	289.1	0.00	1.70	0.76	YES	
L0046142	0	0.13840E-06	544199.9	3755554.1	289.1	0.00	1.70	0.76	YES	
L0046143	0	0.13840E-06	544196.3	3755554.1	289.1	0.00	1.70	0.76	YES	
L0046144	0	0.13840E-06	544192.6	3755554.0	289.2	0.00	1.70	0.76	YES	
L0046145	0	0.13840E-06	544189.0	3755554.0	289.2	0.00	1.70	0.76	YES	
L0046146	0	0.13840E-06	544185.3	3755554.0	289.2	0.00	1.70	0.76	YES	
L0046147	0	0.13840E-06	544181.7	3755553.9	289.2	0.00	1.70	0.76	YES	
L0046148	0	0.13840E-06	544178.0	3755553.9	289.2	0.00	1.70	0.76	YES	
L0046149	0	0.13840E-06	544174.3	3755553.9	289.3	0.00	1.70	0.76	YES	
L0046150	0	0.13840E-06	544170.7	3755553.9	289.3	0.00	1.70	0.76	YES	
L0046151	0	0.13840E-06	544167.0	3755553.8	289.3	0.00	1.70	0.76	YES	
L0046152	0	0.13840E-06	544163.4	3755553.8	289.3	0.00	1.70	0.76	YES	
L0046153	0	0.13840E-06	544159.7	3755553.8	289.4	0.00	1.70	0.76	YES	
L0046154	0	0.13840E-06	544156.1	3755553.8	289.4	0.00	1.70	0.76	YES	
L0046155	0	0.13840E-06	544152.4	3755553.7	289.4	0.00	1.70	0.76	YES	
L0046156	0	0.13840E-06	544148.7	3755553.7	289.4	0.00	1.70	0.76	YES	
L0046157	0	0.13840E-06	544145.1	3755553.7	289.4	0.00	1.70	0.76	YES	
L0046158	0	0.13840E-06	544141.4	3755553.7	289.4	0.00	1.70	0.76	YES	
L0046159	0	0.13840E-06	544137.8	3755553.6	289.5	0.00	1.70	0.76	YES	
L0046160	0	0.13840E-06	544134.1	3755553.6	289.5	0.00	1.70	0.76	YES	
L0046161	0	0.13840E-06	544130.5	3755553.6	289.5	0.00	1.70	0.76	YES	
L0046162	0	0.13840E-06	544126.8	3755553.6	289.5	0.00	1.70	0.76	YES	
L0046163	0	0.13840E-06	544123.1	3755553.5	289.5	0.00	1.70	0.76	YES	
L0046164	0	0.13840E-06	544119.5	3755553.5	289.5	0.00	1.70	0.76	YES	
L0046165	0	0.13840E-06	544115.8	3755553.5	289.6	0.00	1.70	0.76	YES	
L0046166	0	0.13840E-06	544112.2	3755553.4	289.6	0.00	1.70	0.76	YES	
L0046167	0	0.13840E-06	544108.5	3755553.4	289.6	0.00	1.70	0.76	YES	
L0046168	0	0.13840E-06	544104.8	3755553.4	289.6	0.00	1.70	0.76	YES	
L0046169	0	0.13840E-06	544101.2	3755553.4	289.6	0.00	1.70	0.76	YES	
L0046170	0	0.13840E-06	544097.5	3755553.3	289.6	0.00	1.70	0.76	YES	
L0046171	0	0.13840E-06	544093.9	3755553.3	289.7	0.00	1.70	0.76	YES	
L0046172	0	0.13840E-06	544090.2	3755553.3	289.7	0.00	1.70	0.76	YES	
L0046173	0	0.13840E-06	544086.6	3755553.3	289.7	0.00	1.70	0.76	YES	
L0046174	0	0.13840E-06	544082.9	3755553.2	289.7	0.00	1.70	0.76	YES	
L0046175	0	0.13840E-06	544079.2	3755553.2	289.7	0.00	1.70	0.76	YES	
L0046176	0	0.13840E-06	544075.6	3755553.2	289.8	0.00	1.70	0.76	YES	
L0046177	0	0.13840E-06	544071.9	3755553.2	289.8	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046178	0	0.13840E-06	544068.3	3755553.1	289.8	0.00	1.70	0.76	YES	
L0046179	0	0.13840E-06	544064.6	3755553.1	289.8	0.00	1.70	0.76	YES	
L0046180	0	0.13840E-06	544061.0	3755553.1	289.8	0.00	1.70	0.76	YES	
L0046181	0	0.13840E-06	544057.3	3755553.1	289.9	0.00	1.70	0.76	YES	
L0046182	0	0.13840E-06	544053.6	3755553.0	289.9	0.00	1.70	0.76	YES	
L0046183	0	0.13840E-06	544050.0	3755553.0	289.9	0.00	1.70	0.76	YES	
L0046184	0	0.13840E-06	544046.3	3755553.0	289.9	0.00	1.70	0.76	YES	
L0046185	0	0.13840E-06	544042.7	3755552.9	289.9	0.00	1.70	0.76	YES	
L0046186	0	0.13840E-06	544039.0	3755552.9	289.9	0.00	1.70	0.76	YES	
L0046187	0	0.13840E-06	544035.4	3755552.9	289.9	0.00	1.70	0.76	YES	
L0046188	0	0.13840E-06	544031.7	3755552.9	290.0	0.00	1.70	0.76	YES	
L0046189	0	0.13840E-06	544028.0	3755552.8	290.0	0.00	1.70	0.76	YES	
L0046190	0	0.13840E-06	544024.4	3755552.8	290.0	0.00	1.70	0.76	YES	
L0046191	0	0.13840E-06	544020.7	3755552.8	290.1	0.00	1.70	0.76	YES	
L0046192	0	0.13840E-06	544017.1	3755552.8	290.1	0.00	1.70	0.76	YES	
L0046193	0	0.13840E-06	544013.4	3755552.7	290.1	0.00	1.70	0.76	YES	
L0046194	0	0.13840E-06	544009.8	3755552.7	290.1	0.00	1.70	0.76	YES	
L0046195	0	0.13840E-06	544006.1	3755552.7	290.2	0.00	1.70	0.76	YES	
L0046196	0	0.13840E-06	544002.4	3755552.7	290.2	0.00	1.70	0.76	YES	
L0046197	0	0.13840E-06	543998.8	3755552.6	290.2	0.00	1.70	0.76	YES	
L0046198	0	0.13840E-06	543995.1	3755552.6	290.2	0.00	1.70	0.76	YES	
L0046199	0	0.13840E-06	543991.5	3755552.6	290.2	0.00	1.70	0.76	YES	
L0046200	0	0.13840E-06	543987.8	3755552.6	290.3	0.00	1.70	0.76	YES	
L0046201	0	0.13840E-06	543984.2	3755552.5	290.3	0.00	1.70	0.76	YES	
L0046202	0	0.13840E-06	543980.5	3755552.5	290.3	0.00	1.70	0.76	YES	
L0046203	0	0.13840E-06	543976.8	3755552.5	290.3	0.00	1.70	0.76	YES	
L0046204	0	0.13840E-06	543973.2	3755552.4	290.3	0.00	1.70	0.76	YES	
L0046205	0	0.13840E-06	543969.5	3755552.4	290.3	0.00	1.70	0.76	YES	
L0046206	0	0.13840E-06	543965.9	3755552.4	290.3	0.00	1.70	0.76	YES	
L0046207	0	0.13840E-06	543962.2	3755552.4	290.3	0.00	1.70	0.76	YES	
L0046208	0	0.13840E-06	543958.5	3755552.3	290.4	0.00	1.70	0.76	YES	
L0046209	0	0.13840E-06	543954.9	3755552.3	290.4	0.00	1.70	0.76	YES	
L0046210	0	0.13840E-06	543951.2	3755552.3	290.4	0.00	1.70	0.76	YES	
L0046211	0	0.13840E-06	543947.6	3755552.3	290.5	0.00	1.70	0.76	YES	
L0046212	0	0.13840E-06	543943.9	3755552.2	290.5	0.00	1.70	0.76	YES	
L0046213	0	0.13840E-06	543940.3	3755552.2	290.5	0.00	1.70	0.76	YES	
L0046214	0	0.13840E-06	543936.6	3755552.2	290.6	0.00	1.70	0.76	YES	
L0046215	0	0.13840E-06	543932.9	3755552.2	290.6	0.00	1.70	0.76	YES	
L0046216	0	0.13840E-06	543929.3	3755552.3	290.6	0.00	1.70	0.76	YES	
L0046217	0	0.13840E-06	543925.6	3755552.4	290.6	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046218	0	0.13840E-06	543922.0	3755552.6	290.7	0.00	1.70	0.76	YES	
L0046219	0	0.13840E-06	543918.3	3755552.8	290.7	0.00	1.70	0.76	YES	
L0046220	0	0.13840E-06	543914.7	3755553.0	290.7	0.00	1.70	0.76	YES	
L0046221	0	0.13840E-06	543911.0	3755553.2	290.7	0.00	1.70	0.76	YES	
L0046222	0	0.13840E-06	543907.4	3755553.4	290.8	0.00	1.70	0.76	YES	
L0046223	0	0.13840E-06	543903.7	3755553.6	290.8	0.00	1.70	0.76	YES	
L0046224	0	0.13840E-06	543900.1	3755553.7	290.8	0.00	1.70	0.76	YES	
L0046225	0	0.13840E-06	543896.4	3755553.9	290.9	0.00	1.70	0.76	YES	
L0046226	0	0.13840E-06	543892.8	3755554.2	290.9	0.00	1.70	0.76	YES	
L0046227	0	0.13840E-06	543889.4	3755555.5	290.9	0.00	1.70	0.76	YES	
L0046228	0	0.13840E-06	543886.0	3755556.9	291.0	0.00	1.70	0.76	YES	
L0046229	0	0.13840E-06	543882.6	3755558.3	291.0	0.00	1.70	0.76	YES	
L0046230	0	0.13840E-06	543879.2	3755559.7	291.1	0.00	1.70	0.76	YES	
L0046231	0	0.13840E-06	543875.8	3755561.0	291.2	0.00	1.70	0.76	YES	
L0046232	0	0.13840E-06	543872.4	3755562.4	291.2	0.00	1.70	0.76	YES	
L0046233	0	0.13840E-06	543869.1	3755563.8	291.3	0.00	1.70	0.76	YES	
L0046234	0	0.13840E-06	543865.7	3755565.2	291.3	0.00	1.70	0.76	YES	
L0046235	0	0.13840E-06	543862.3	3755566.6	291.4	0.00	1.70	0.76	YES	
L0046236	0	0.13840E-06	543859.4	3755568.8	291.5	0.00	1.70	0.76	YES	
L0046237	0	0.13840E-06	543856.4	3755571.0	291.5	0.00	1.70	0.76	YES	
L0046238	0	0.13840E-06	543853.5	3755573.2	291.6	0.00	1.70	0.76	YES	
L0046239	0	0.13840E-06	543850.6	3755575.4	291.7	0.00	1.70	0.76	YES	
L0046240	0	0.13840E-06	543847.7	3755577.6	291.8	0.00	1.70	0.76	YES	
L0046241	0	0.13840E-06	543844.7	3755579.7	291.8	0.00	1.70	0.76	YES	
L0046242	0	0.13840E-06	543841.8	3755581.9	291.9	0.00	1.70	0.76	YES	
L0046243	0	0.13840E-06	543838.9	3755584.1	292.0	0.00	1.70	0.76	YES	
L0046244	0	0.13840E-06	543835.9	3755586.3	292.1	0.00	1.70	0.76	YES	
L0046245	0	0.13840E-06	543833.0	3755588.5	292.1	0.00	1.70	0.76	YES	
L0046246	0	0.13840E-06	543830.1	3755590.7	292.2	0.00	1.70	0.76	YES	
L0046247	0	0.13840E-06	543827.2	3755592.9	292.2	0.00	1.70	0.76	YES	
L0046248	0	0.13840E-06	543824.2	3755595.1	292.3	0.00	1.70	0.76	YES	
L0046249	0	0.13840E-06	543821.3	3755597.3	292.4	0.00	1.70	0.76	YES	
L0046250	0	0.13840E-06	543818.4	3755599.5	292.4	0.00	1.70	0.76	YES	
L0046251	0	0.13840E-06	543815.4	3755601.5	292.5	0.00	1.70	0.76	YES	
L0046252	0	0.13840E-06	543812.1	3755603.2	292.5	0.00	1.70	0.76	YES	
L0046253	0	0.13840E-06	543808.8	3755604.8	292.6	0.00	1.70	0.76	YES	
L0046254	0	0.13840E-06	543805.6	3755606.4	292.7	0.00	1.70	0.76	YES	
L0046255	0	0.13840E-06	543802.3	3755608.1	292.7	0.00	1.70	0.76	YES	
L0046256	0	0.13840E-06	543799.0	3755609.7	292.8	0.00	1.70	0.76	YES	
L0046257	0	0.13840E-06	543795.7	3755611.3	292.8	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046258	0	0.13840E-06	543792.5	3755613.0	292.9	0.00	1.70	0.76	YES	
L0046259	0	0.13840E-06	543789.2	3755614.6	292.9	0.00	1.70	0.76	YES	
L0046260	0	0.13840E-06	543785.9	3755616.2	293.0	0.00	1.70	0.76	YES	
L0046261	0	0.13840E-06	543782.6	3755617.9	293.0	0.00	1.70	0.76	YES	
L0046262	0	0.13840E-06	543779.4	3755619.5	293.1	0.00	1.70	0.76	YES	
L0046263	0	0.13840E-06	543776.0	3755620.8	293.1	0.00	1.70	0.76	YES	
L0046264	0	0.13840E-06	543772.5	3755621.9	293.2	0.00	1.70	0.76	YES	
L0046265	0	0.13840E-06	543769.0	3755622.9	293.2	0.00	1.70	0.76	YES	
L0046266	0	0.13840E-06	543765.4	3755623.9	293.3	0.00	1.70	0.76	YES	
L0046267	0	0.13840E-06	543761.9	3755624.9	293.4	0.00	1.70	0.76	YES	
L0046268	0	0.13840E-06	543758.4	3755625.9	293.4	0.00	1.70	0.76	YES	
L0046269	0	0.13840E-06	543754.9	3755627.0	293.5	0.00	1.70	0.76	YES	
L0046270	0	0.13840E-06	543751.4	3755628.0	293.5	0.00	1.70	0.76	YES	
L0046271	0	0.13840E-06	543747.9	3755629.0	293.6	0.00	1.70	0.76	YES	
L0046272	0	0.13840E-06	543744.4	3755630.0	293.6	0.00	1.70	0.76	YES	
L0046273	0	0.13840E-06	543740.8	3755630.9	293.6	0.00	1.70	0.76	YES	
L0046274	0	0.13840E-06	543737.2	3755630.9	293.7	0.00	1.70	0.76	YES	
L0046275	0	0.13840E-06	543733.5	3755630.9	293.7	0.00	1.70	0.76	YES	
L0046276	0	0.13840E-06	543729.9	3755630.9	293.7	0.00	1.70	0.76	YES	
L0046277	0	0.13840E-06	543726.2	3755630.9	293.7	0.00	1.70	0.76	YES	
L0046278	0	0.13840E-06	543722.5	3755631.0	293.8	0.00	1.70	0.76	YES	
L0046279	0	0.13840E-06	543718.9	3755631.0	293.8	0.00	1.70	0.76	YES	
L0046280	0	0.13840E-06	543715.2	3755631.0	293.8	0.00	1.70	0.76	YES	
L0046281	0	0.13840E-06	543711.6	3755631.0	293.8	0.00	1.70	0.76	YES	
L0046282	0	0.13840E-06	543707.9	3755631.0	293.8	0.00	1.70	0.76	YES	
L0046283	0	0.13840E-06	543704.3	3755631.1	293.9	0.00	1.70	0.76	YES	
L0046284	0	0.13840E-06	543700.6	3755631.1	293.9	0.00	1.70	0.76	YES	
L0046285	0	0.13840E-06	543696.9	3755631.1	293.9	0.00	1.70	0.76	YES	
L0046286	0	0.13840E-06	543693.3	3755631.1	293.9	0.00	1.70	0.76	YES	
L0046287	0	0.13840E-06	543689.6	3755631.1	294.0	0.00	1.70	0.76	YES	
L0046288	0	0.13500E-06	544361.2	3755546.1	288.0	0.00	1.70	0.76	YES	
L0046289	0	0.13500E-06	544361.2	3755542.5	287.9	0.00	1.70	0.76	YES	
L0046290	0	0.13500E-06	544361.2	3755538.8	287.9	0.00	1.70	0.76	YES	
L0046291	0	0.13500E-06	544361.2	3755535.2	287.8	0.00	1.70	0.76	YES	
L0046292	0	0.13500E-06	544361.3	3755531.5	287.8	0.00	1.70	0.76	YES	
L0046293	0	0.13500E-06	544361.3	3755527.9	287.8	0.00	1.70	0.76	YES	
L0046294	0	0.13500E-06	544361.3	3755524.2	287.7	0.00	1.70	0.76	YES	
L0046295	0	0.13500E-06	544361.3	3755520.5	287.6	0.00	1.70	0.76	YES	

L0046296	0	0.13500E-06	544361.4	3755516.9	287.6	0.00	1.70	0.76	YES	
L0046297	0	0.13500E-06	544361.4	3755513.2	287.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046298	0	0.13500E-06	544361.4	3755509.6	287.5	0.00	1.70	0.76	YES	
L0046299	0	0.13500E-06	544361.4	3755505.9	287.4	0.00	1.70	0.76	YES	
L0046300	0	0.13500E-06	544361.5	3755502.2	287.4	0.00	1.70	0.76	YES	
L0046301	0	0.13500E-06	544361.5	3755498.6	287.3	0.00	1.70	0.76	YES	
L0046302	0	0.13500E-06	544361.5	3755494.9	287.2	0.00	1.70	0.76	YES	
L0046303	0	0.13500E-06	544361.5	3755491.3	287.2	0.00	1.70	0.76	YES	
L0046304	0	0.13500E-06	544361.6	3755487.6	287.1	0.00	1.70	0.76	YES	
L0046305	0	0.13500E-06	544361.6	3755484.0	287.1	0.00	1.70	0.76	YES	
L0046306	0	0.13500E-06	544361.6	3755480.3	287.0	0.00	1.70	0.76	YES	
L0046307	0	0.13500E-06	544361.6	3755476.6	286.9	0.00	1.70	0.76	YES	
L0046308	0	0.13500E-06	544361.7	3755473.0	286.9	0.00	1.70	0.76	YES	
L0046309	0	0.13500E-06	544361.7	3755469.3	286.8	0.00	1.70	0.76	YES	
L0046310	0	0.13500E-06	544361.7	3755465.7	286.8	0.00	1.70	0.76	YES	
L0046311	0	0.13500E-06	544361.7	3755462.0	286.7	0.00	1.70	0.76	YES	
L0046312	0	0.13500E-06	544361.8	3755458.4	286.6	0.00	1.70	0.76	YES	
L0046313	0	0.13500E-06	544361.8	3755454.7	286.6	0.00	1.70	0.76	YES	
L0046314	0	0.13500E-06	544361.8	3755451.0	286.5	0.00	1.70	0.76	YES	
L0046315	0	0.13500E-06	544361.8	3755447.4	286.4	0.00	1.70	0.76	YES	
L0046316	0	0.13500E-06	544361.9	3755443.7	286.4	0.00	1.70	0.76	YES	
L0046317	0	0.13500E-06	544361.9	3755440.1	286.3	0.00	1.70	0.76	YES	
L0046318	0	0.13500E-06	544361.9	3755436.4	286.2	0.00	1.70	0.76	YES	
L0046319	0	0.13500E-06	544361.9	3755432.8	286.2	0.00	1.70	0.76	YES	
L0046320	0	0.13500E-06	544362.0	3755429.1	286.1	0.00	1.70	0.76	YES	
L0046321	0	0.13500E-06	544362.0	3755425.4	286.1	0.00	1.70	0.76	YES	
L0046322	0	0.13500E-06	544362.0	3755421.8	286.0	0.00	1.70	0.76	YES	
L0046323	0	0.13500E-06	544362.0	3755418.1	285.9	0.00	1.70	0.76	YES	
L0046324	0	0.13500E-06	544362.1	3755414.5	285.9	0.00	1.70	0.76	YES	
L0046325	0	0.13500E-06	544362.1	3755410.8	285.8	0.00	1.70	0.76	YES	
L0046326	0	0.13500E-06	544362.1	3755407.2	285.7	0.00	1.70	0.76	YES	
L0046327	0	0.13500E-06	544362.1	3755403.5	285.6	0.00	1.70	0.76	YES	
L0046328	0	0.13500E-06	544362.2	3755399.8	285.6	0.00	1.70	0.76	YES	
L0046329	0	0.13500E-06	544362.2	3755396.2	285.5	0.00	1.70	0.76	YES	
L0046330	0	0.13500E-06	544362.2	3755392.5	285.4	0.00	1.70	0.76	YES	
L0046331	0	0.13500E-06	544362.2	3755388.9	285.4	0.00	1.70	0.76	YES	
L0046332	0	0.13500E-06	544362.3	3755385.2	285.3	0.00	1.70	0.76	YES	

L0046333	0	0.13500E-06	544362.3	3755381.6	285.2	0.00	1.70	0.76	YES	
L0046334	0	0.13500E-06	544362.3	3755377.9	285.2	0.00	1.70	0.76	YES	
L0046335	0	0.13500E-06	544362.3	3755374.2	285.1	0.00	1.70	0.76	YES	
L0046336	0	0.13500E-06	544362.4	3755370.6	285.0	0.00	1.70	0.76	YES	
L0046337	0	0.13500E-06	544362.4	3755366.9	285.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046338	0	0.13500E-06	544362.4	3755363.3	284.9	0.00	1.70	0.76	YES	
L0046339	0	0.13500E-06	544362.4	3755359.6	284.9	0.00	1.70	0.76	YES	
L0046340	0	0.13500E-06	544362.5	3755355.9	284.8	0.00	1.70	0.76	YES	
L0046341	0	0.13500E-06	544362.5	3755352.3	284.8	0.00	1.70	0.76	YES	
L0046342	0	0.13500E-06	544362.5	3755348.6	284.7	0.00	1.70	0.76	YES	
L0046343	0	0.13500E-06	544362.5	3755345.0	284.6	0.00	1.70	0.76	YES	
L0046344	0	0.13500E-06	544362.6	3755341.3	284.6	0.00	1.70	0.76	YES	
L0046345	0	0.13500E-06	544362.6	3755337.7	284.5	0.00	1.70	0.76	YES	
L0046346	0	0.13500E-06	544362.6	3755334.0	284.4	0.00	1.70	0.76	YES	
L0046347	0	0.13500E-06	544362.6	3755330.3	284.4	0.00	1.70	0.76	YES	
L0046348	0	0.13500E-06	544362.7	3755326.7	284.3	0.00	1.70	0.76	YES	
L0046349	0	0.13500E-06	544362.7	3755323.0	284.3	0.00	1.70	0.76	YES	
L0046350	0	0.13500E-06	544362.7	3755319.4	284.2	0.00	1.70	0.76	YES	
L0046351	0	0.13500E-06	544362.7	3755315.7	284.1	0.00	1.70	0.76	YES	
L0046352	0	0.13500E-06	544362.8	3755312.1	284.1	0.00	1.70	0.76	YES	
L0046353	0	0.13500E-06	544362.8	3755308.4	284.0	0.00	1.70	0.76	YES	
L0046354	0	0.13500E-06	544362.8	3755304.7	284.0	0.00	1.70	0.76	YES	
L0046355	0	0.13500E-06	544362.8	3755301.1	283.9	0.00	1.70	0.76	YES	
L0046356	0	0.13500E-06	544362.9	3755297.4	283.9	0.00	1.70	0.76	YES	
L0046357	0	0.13500E-06	544362.9	3755293.8	283.8	0.00	1.70	0.76	YES	
L0046358	0	0.13500E-06	544362.9	3755290.1	283.8	0.00	1.70	0.76	YES	
L0046359	0	0.13500E-06	544362.9	3755286.5	283.7	0.00	1.70	0.76	YES	
L0046360	0	0.13500E-06	544363.0	3755282.8	283.7	0.00	1.70	0.76	YES	
L0046361	0	0.13500E-06	544363.0	3755279.1	283.6	0.00	1.70	0.76	YES	
L0046362	0	0.13500E-06	544363.0	3755275.5	283.5	0.00	1.70	0.76	YES	
L0046363	0	0.13500E-06	544363.0	3755271.8	283.5	0.00	1.70	0.76	YES	
L0046364	0	0.13500E-06	544363.1	3755268.2	283.4	0.00	1.70	0.76	YES	
L0046365	0	0.13500E-06	544363.1	3755264.5	283.4	0.00	1.70	0.76	YES	
L0046366	0	0.13500E-06	544363.1	3755260.9	283.3	0.00	1.70	0.76	YES	
L0046367	0	0.13500E-06	544363.1	3755257.2	283.2	0.00	1.70	0.76	YES	
L0046368	0	0.13500E-06	544363.1	3755253.5	283.2	0.00	1.70	0.76	YES	
L0046369	0	0.13500E-06	544363.2	3755249.9	283.1	0.00	1.70	0.76	YES	

L0046370	0	0.13500E-06	544363.2	3755246.2	283.1	0.00	1.70	0.76	YES	
L0046371	0	0.13500E-06	544363.2	3755242.6	283.0	0.00	1.70	0.76	YES	
L0046372	0	0.13500E-06	544363.2	3755238.9	282.9	0.00	1.70	0.76	YES	
L0046373	0	0.13500E-06	544363.3	3755235.3	282.9	0.00	1.70	0.76	YES	
L0046374	0	0.13500E-06	544363.3	3755231.6	282.8	0.00	1.70	0.76	YES	
L0046375	0	0.13500E-06	544363.3	3755227.9	282.8	0.00	1.70	0.76	YES	
L0046376	0	0.13500E-06	544363.3	3755224.3	282.7	0.00	1.70	0.76	YES	
L0046377	0	0.13500E-06	544363.4	3755220.6	282.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046378	0	0.13500E-06	544363.4	3755217.0	282.6	0.00	1.70	0.76	YES	
L0046379	0	0.13500E-06	544363.4	3755213.3	282.5	0.00	1.70	0.76	YES	
L0046380	0	0.13500E-06	544363.4	3755209.6	282.5	0.00	1.70	0.76	YES	
L0046381	0	0.13500E-06	544363.5	3755206.0	282.4	0.00	1.70	0.76	YES	
L0046382	0	0.13500E-06	544363.5	3755202.3	282.4	0.00	1.70	0.76	YES	
L0046383	0	0.13500E-06	544363.5	3755198.7	282.3	0.00	1.70	0.76	YES	
L0046384	0	0.13500E-06	544363.5	3755195.0	282.3	0.00	1.70	0.76	YES	
L0046385	0	0.13500E-06	544363.6	3755191.4	282.2	0.00	1.70	0.76	YES	
L0046386	0	0.13500E-06	544363.6	3755187.7	282.2	0.00	1.70	0.76	YES	
L0046387	0	0.13500E-06	544363.6	3755184.0	282.1	0.00	1.70	0.76	YES	
L0046388	0	0.13500E-06	544363.6	3755180.4	282.0	0.00	1.70	0.76	YES	
L0046389	0	0.13500E-06	544363.7	3755176.7	282.0	0.00	1.70	0.76	YES	
L0046390	0	0.13500E-06	544363.7	3755173.1	281.9	0.00	1.70	0.76	YES	
L0046391	0	0.13500E-06	544363.7	3755169.4	281.9	0.00	1.70	0.76	YES	
L0046392	0	0.13500E-06	544363.7	3755165.8	281.8	0.00	1.70	0.76	YES	
L0046393	0	0.13500E-06	544363.8	3755162.1	281.7	0.00	1.70	0.76	YES	
L0046394	0	0.13500E-06	544363.8	3755158.4	281.7	0.00	1.70	0.76	YES	
L0046395	0	0.13500E-06	544363.8	3755154.8	281.6	0.00	1.70	0.76	YES	
L0046396	0	0.13500E-06	544363.8	3755151.1	281.6	0.00	1.70	0.76	YES	
L0046397	0	0.13500E-06	544363.9	3755147.5	281.5	0.00	1.70	0.76	YES	
L0046398	0	0.13500E-06	544363.9	3755143.8	281.4	0.00	1.70	0.76	YES	
L0046399	0	0.13500E-06	544363.9	3755140.2	281.4	0.00	1.70	0.76	YES	
L0046400	0	0.13500E-06	544363.9	3755136.5	281.3	0.00	1.70	0.76	YES	
L0046401	0	0.13500E-06	544364.0	3755132.8	281.3	0.00	1.70	0.76	YES	
L0046402	0	0.13500E-06	544364.0	3755129.2	281.2	0.00	1.70	0.76	YES	
L0046403	0	0.13500E-06	544364.0	3755125.5	281.1	0.00	1.70	0.76	YES	
L0046404	0	0.13500E-06	544364.0	3755121.9	281.1	0.00	1.70	0.76	YES	
L0046405	0	0.13500E-06	544364.1	3755118.2	281.0	0.00	1.70	0.76	YES	
L0046406	0	0.13500E-06	544364.1	3755114.6	280.9	0.00	1.70	0.76	YES	

L0046407	0	0.13500E-06	544364.1	3755110.9	280.8	0.00	1.70	0.76	YES	
L0046408	0	0.13500E-06	544364.1	3755107.2	280.8	0.00	1.70	0.76	YES	
L0046409	0	0.13500E-06	544364.2	3755103.6	280.7	0.00	1.70	0.76	YES	
L0046410	0	0.13500E-06	544364.2	3755099.9	280.6	0.00	1.70	0.76	YES	
L0046411	0	0.13500E-06	544364.2	3755096.3	280.5	0.00	1.70	0.76	YES	
L0046412	0	0.13500E-06	544364.2	3755092.6	280.5	0.00	1.70	0.76	YES	
L0046413	0	0.13500E-06	544364.3	3755089.0	280.4	0.00	1.70	0.76	YES	
L0046414	0	0.13500E-06	544364.3	3755085.3	280.3	0.00	1.70	0.76	YES	
L0046415	0	0.13500E-06	544364.3	3755081.6	280.2	0.00	1.70	0.76	YES	
L0046416	0	0.13500E-06	544364.3	3755078.0	280.2	0.00	1.70	0.76	YES	
L0046417	0	0.13500E-06	544364.4	3755074.3	280.1	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046418	0	0.13500E-06	544364.4	3755070.7	280.0	0.00	1.70	0.76	YES	
L0046419	0	0.13500E-06	544364.4	3755067.0	279.9	0.00	1.70	0.76	YES	
L0046420	0	0.13500E-06	544364.4	3755063.3	279.9	0.00	1.70	0.76	YES	
L0046421	0	0.13500E-06	544364.5	3755059.7	279.8	0.00	1.70	0.76	YES	
L0046422	0	0.13500E-06	544364.5	3755056.0	279.7	0.00	1.70	0.76	YES	
L0046423	0	0.13500E-06	544364.5	3755052.4	279.6	0.00	1.70	0.76	YES	
L0046424	0	0.13500E-06	544364.5	3755048.7	279.6	0.00	1.70	0.76	YES	
L0046425	0	0.13500E-06	544364.6	3755045.1	279.5	0.00	1.70	0.76	YES	
L0046426	0	0.13500E-06	544364.6	3755041.4	279.4	0.00	1.70	0.76	YES	
L0046427	0	0.13500E-06	544364.6	3755037.7	279.3	0.00	1.70	0.76	YES	
L0046428	0	0.13500E-06	544364.6	3755034.1	279.3	0.00	1.70	0.76	YES	
L0046429	0	0.13500E-06	544364.7	3755030.4	279.2	0.00	1.70	0.76	YES	
L0046430	0	0.13500E-06	544364.7	3755026.8	279.1	0.00	1.70	0.76	YES	
L0046431	0	0.13500E-06	544364.7	3755023.1	279.1	0.00	1.70	0.76	YES	
L0046432	0	0.13500E-06	544364.7	3755019.5	279.0	0.00	1.70	0.76	YES	
L0046433	0	0.13500E-06	544364.8	3755015.8	278.9	0.00	1.70	0.76	YES	
L0046434	0	0.13500E-06	544364.8	3755012.1	278.8	0.00	1.70	0.76	YES	
L0046435	0	0.13500E-06	544364.8	3755008.5	278.8	0.00	1.70	0.76	YES	
L0046436	0	0.13500E-06	544364.8	3755004.8	278.7	0.00	1.70	0.76	YES	
L0046437	0	0.13500E-06	544364.9	3755001.2	278.6	0.00	1.70	0.76	YES	
L0046438	0	0.13500E-06	544364.9	3754997.5	278.5	0.00	1.70	0.76	YES	
L0046439	0	0.13500E-06	544364.9	3754993.9	278.5	0.00	1.70	0.76	YES	
L0046440	0	0.13500E-06	544364.9	3754990.2	278.4	0.00	1.70	0.76	YES	
L0046441	0	0.13500E-06	544365.0	3754986.5	278.3	0.00	1.70	0.76	YES	
L0046442	0	0.13500E-06	544365.0	3754982.9	278.2	0.00	1.70	0.76	YES	
L0046443	0	0.13500E-06	544365.0	3754979.2	278.2	0.00	1.70	0.76	YES	

L0046444	0	0.13500E-06	544365.0	3754975.6	278.1	0.00	1.70	0.76	YES	
L0046445	0	0.13500E-06	544365.1	3754971.9	278.0	0.00	1.70	0.76	YES	
L0046446	0	0.13500E-06	544365.1	3754968.3	277.9	0.00	1.70	0.76	YES	
L0046447	0	0.13500E-06	544365.1	3754964.6	277.9	0.00	1.70	0.76	YES	
L0046448	0	0.13500E-06	544365.1	3754960.9	277.8	0.00	1.70	0.76	YES	
L0046449	0	0.13500E-06	544365.2	3754957.3	277.7	0.00	1.70	0.76	YES	
L0046450	0	0.13500E-06	544365.2	3754953.6	277.7	0.00	1.70	0.76	YES	
L0046451	0	0.13500E-06	544365.2	3754950.0	277.6	0.00	1.70	0.76	YES	
L0046452	0	0.13500E-06	544365.2	3754946.3	277.5	0.00	1.70	0.76	YES	
L0046453	0	0.13500E-06	544365.2	3754942.6	277.4	0.00	1.70	0.76	YES	
L0046454	0	0.13500E-06	544365.3	3754939.0	277.4	0.00	1.70	0.76	YES	
L0046455	0	0.13500E-06	544365.3	3754935.3	277.3	0.00	1.70	0.76	YES	
L0046456	0	0.13500E-06	544365.3	3754931.7	277.2	0.00	1.70	0.76	YES	
L0046457	0	0.13500E-06	544365.3	3754928.0	277.1	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046458	0	0.13500E-06	544365.4	3754924.4	277.1	0.00	1.70	0.76	YES	
L0046459	0	0.13500E-06	544365.4	3754920.7	277.0	0.00	1.70	0.76	YES	
L0046460	0	0.13500E-06	544365.4	3754917.0	276.9	0.00	1.70	0.76	YES	
L0046461	0	0.13500E-06	544365.4	3754913.4	276.9	0.00	1.70	0.76	YES	
L0046462	0	0.13500E-06	544365.5	3754909.7	276.8	0.00	1.70	0.76	YES	
L0046463	0	0.13500E-06	544365.5	3754906.1	276.7	0.00	1.70	0.76	YES	
L0046464	0	0.13500E-06	544365.5	3754902.4	276.6	0.00	1.70	0.76	YES	
L0046465	0	0.13500E-06	544365.5	3754898.8	276.6	0.00	1.70	0.76	YES	
L0046466	0	0.13500E-06	544365.6	3754895.1	276.5	0.00	1.70	0.76	YES	
L0046467	0	0.13500E-06	544365.6	3754891.4	276.4	0.00	1.70	0.76	YES	
L0046468	0	0.13500E-06	544365.6	3754887.8	276.4	0.00	1.70	0.76	YES	
L0046469	0	0.13500E-06	544365.6	3754884.1	276.3	0.00	1.70	0.76	YES	
L0046470	0	0.13500E-06	544365.7	3754880.5	276.2	0.00	1.70	0.76	YES	
L0046471	0	0.13500E-06	544365.7	3754876.8	276.1	0.00	1.70	0.76	YES	
L0046472	0	0.13500E-06	544365.7	3754873.2	276.1	0.00	1.70	0.76	YES	
L0046473	0	0.13500E-06	544365.7	3754869.5	276.0	0.00	1.70	0.76	YES	
L0046474	0	0.13500E-06	544365.8	3754865.8	275.9	0.00	1.70	0.76	YES	
L0046475	0	0.13500E-06	544365.8	3754862.2	275.9	0.00	1.70	0.76	YES	
L0046476	0	0.13500E-06	544365.8	3754858.5	275.8	0.00	1.70	0.76	YES	
L0046477	0	0.13500E-06	544365.8	3754854.9	275.7	0.00	1.70	0.76	YES	
L0046478	0	0.13500E-06	544365.9	3754851.2	275.6	0.00	1.70	0.76	YES	
L0046479	0	0.13500E-06	544365.9	3754847.6	275.6	0.00	1.70	0.76	YES	
L0046480	0	0.13500E-06	544365.9	3754843.9	275.5	0.00	1.70	0.76	YES	

L0046481	0	0.13500E-06	544365.9	3754840.2	275.4	0.00	1.70	0.76	YES	
L0046482	0	0.13500E-06	544366.0	3754836.6	275.4	0.00	1.70	0.76	YES	
L0046483	0	0.13500E-06	544366.0	3754832.9	275.3	0.00	1.70	0.76	YES	
L0046484	0	0.13500E-06	544366.0	3754829.3	275.2	0.00	1.70	0.76	YES	
L0046485	0	0.13500E-06	544366.0	3754825.6	275.2	0.00	1.70	0.76	YES	
L0046486	0	0.13500E-06	544366.1	3754822.0	275.1	0.00	1.70	0.76	YES	
L0046487	0	0.13500E-06	544366.1	3754818.3	275.0	0.00	1.70	0.76	YES	
L0046488	0	0.13500E-06	544366.1	3754814.6	275.0	0.00	1.70	0.76	YES	
L0046489	0	0.13500E-06	544366.1	3754811.0	274.9	0.00	1.70	0.76	YES	
L0046490	0	0.13500E-06	544366.2	3754807.3	274.8	0.00	1.70	0.76	YES	
L0046491	0	0.13500E-06	544366.2	3754803.7	274.8	0.00	1.70	0.76	YES	
L0046492	0	0.13500E-06	544366.2	3754800.0	274.7	0.00	1.70	0.76	YES	
L0046493	0	0.13500E-06	544366.2	3754796.3	274.6	0.00	1.70	0.76	YES	
L0046494	0	0.13500E-06	544366.3	3754792.7	274.6	0.00	1.70	0.76	YES	
L0046495	0	0.13500E-06	544366.3	3754789.0	274.5	0.00	1.70	0.76	YES	
L0046496	0	0.13500E-06	544366.3	3754785.4	274.5	0.00	1.70	0.76	YES	
L0046497	0	0.13500E-06	544366.3	3754781.7	274.4	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046498	0	0.13500E-06	544366.4	3754778.1	274.4	0.00	1.70	0.76	YES	
L0046499	0	0.13500E-06	544366.4	3754774.4	274.3	0.00	1.70	0.76	YES	
L0046500	0	0.13500E-06	544366.4	3754770.7	274.2	0.00	1.70	0.76	YES	
L0046501	0	0.13500E-06	544366.4	3754767.1	274.2	0.00	1.70	0.76	YES	
L0046502	0	0.13500E-06	544366.5	3754763.4	274.1	0.00	1.70	0.76	YES	
L0046503	0	0.13500E-06	544366.5	3754759.8	274.1	0.00	1.70	0.76	YES	
L0046504	0	0.13500E-06	544366.5	3754756.1	274.0	0.00	1.70	0.76	YES	
L0046505	0	0.13500E-06	544366.5	3754752.5	273.9	0.00	1.70	0.76	YES	
L0046506	0	0.13500E-06	544366.6	3754748.8	273.9	0.00	1.70	0.76	YES	
L0046507	0	0.13500E-06	544366.6	3754745.1	273.8	0.00	1.70	0.76	YES	
L0046508	0	0.13530E-06	543903.0	3755545.1	290.6	0.00	1.70	0.76	YES	
L0046509	0	0.13530E-06	543901.8	3755541.6	290.6	0.00	1.70	0.76	YES	
L0046510	0	0.13530E-06	543900.6	3755538.1	290.5	0.00	1.70	0.76	YES	
L0046511	0	0.13530E-06	543899.5	3755534.7	290.5	0.00	1.70	0.76	YES	
L0046512	0	0.13530E-06	543898.3	3755531.2	290.4	0.00	1.70	0.76	YES	
L0046513	0	0.13530E-06	543897.1	3755527.7	290.4	0.00	1.70	0.76	YES	
L0046514	0	0.13530E-06	543896.0	3755524.3	290.3	0.00	1.70	0.76	YES	
L0046515	0	0.13530E-06	543894.8	3755520.8	290.2	0.00	1.70	0.76	YES	
L0046516	0	0.13530E-06	543893.7	3755517.3	290.2	0.00	1.70	0.76	YES	
L0046517	0	0.13530E-06	543893.7	3755513.7	290.1	0.00	1.70	0.76	YES	

L0046518	0	0.13530E-06	543893.7	3755510.0	290.0	0.00	1.70	0.76	YES
L0046519	0	0.13530E-06	543893.7	3755506.4	289.9	0.00	1.70	0.76	YES
L0046520	0	0.13530E-06	543893.8	3755502.7	289.8	0.00	1.70	0.76	YES
L0046521	0	0.13530E-06	543893.8	3755499.1	289.8	0.00	1.70	0.76	YES
L0046522	0	0.13530E-06	543893.8	3755495.4	289.7	0.00	1.70	0.76	YES
L0046523	0	0.13530E-06	543893.8	3755491.7	289.6	0.00	1.70	0.76	YES
L0046524	0	0.13530E-06	543893.8	3755488.1	289.5	0.00	1.70	0.76	YES
L0046525	0	0.13530E-06	543893.8	3755484.4	289.4	0.00	1.70	0.76	YES
L0046526	0	0.13530E-06	543893.8	3755480.8	289.4	0.00	1.70	0.76	YES
L0046527	0	0.13530E-06	543893.9	3755477.1	289.3	0.00	1.70	0.76	YES
L0046528	0	0.13530E-06	543893.9	3755473.4	289.2	0.00	1.70	0.76	YES
L0046529	0	0.13530E-06	543893.9	3755469.8	289.1	0.00	1.70	0.76	YES
L0046530	0	0.13530E-06	543893.9	3755466.1	289.1	0.00	1.70	0.76	YES
L0046531	0	0.13530E-06	543893.9	3755462.5	289.0	0.00	1.70	0.76	YES
L0046532	0	0.13530E-06	543893.9	3755458.8	288.9	0.00	1.70	0.76	YES
L0046533	0	0.13530E-06	543894.0	3755455.2	288.8	0.00	1.70	0.76	YES
L0046534	0	0.13530E-06	543894.0	3755451.5	288.8	0.00	1.70	0.76	YES
L0046535	0	0.13530E-06	543894.0	3755447.8	288.7	0.00	1.70	0.76	YES
L0046536	0	0.13530E-06	543894.0	3755444.2	288.6	0.00	1.70	0.76	YES
L0046537	0	0.13530E-06	543894.0	3755440.5	288.5	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046538	0	0.13530E-06	543894.0	3755436.9	288.4	0.00	1.70	0.76	YES	
L0046539	0	0.13530E-06	543894.0	3755433.2	288.4	0.00	1.70	0.76	YES	
L0046540	0	0.13530E-06	543894.1	3755429.6	288.3	0.00	1.70	0.76	YES	
L0046541	0	0.13530E-06	543894.1	3755425.9	288.2	0.00	1.70	0.76	YES	
L0046542	0	0.13530E-06	543894.1	3755422.2	288.1	0.00	1.70	0.76	YES	
L0046543	0	0.13530E-06	543894.1	3755418.6	288.1	0.00	1.70	0.76	YES	
L0046544	0	0.13530E-06	543894.1	3755414.9	288.0	0.00	1.70	0.76	YES	
L0046545	0	0.13530E-06	543894.1	3755411.3	287.9	0.00	1.70	0.76	YES	
L0046546	0	0.13530E-06	543894.2	3755407.6	287.8	0.00	1.70	0.76	YES	
L0046547	0	0.13530E-06	543894.2	3755404.0	287.8	0.00	1.70	0.76	YES	
L0046548	0	0.13530E-06	543894.2	3755400.3	287.7	0.00	1.70	0.76	YES	
L0046549	0	0.13530E-06	543894.2	3755396.6	287.6	0.00	1.70	0.76	YES	
L0046550	0	0.13530E-06	543894.2	3755393.0	287.5	0.00	1.70	0.76	YES	
L0046551	0	0.13530E-06	543894.2	3755389.3	287.5	0.00	1.70	0.76	YES	
L0046552	0	0.13530E-06	543894.2	3755385.7	287.4	0.00	1.70	0.76	YES	
L0046553	0	0.13530E-06	543894.3	3755382.0	287.3	0.00	1.70	0.76	YES	
L0046554	0	0.13530E-06	543894.3	3755378.4	287.3	0.00	1.70	0.76	YES	

L0046555	0	0.13530E-06	543894.3	3755374.7	287.2	0.00	1.70	0.76	YES	
L0046556	0	0.13530E-06	543894.3	3755371.0	287.1	0.00	1.70	0.76	YES	
L0046557	0	0.13530E-06	543894.3	3755367.4	287.1	0.00	1.70	0.76	YES	
L0046558	0	0.13530E-06	543894.3	3755363.7	287.0	0.00	1.70	0.76	YES	
L0046559	0	0.13530E-06	543894.4	3755360.1	287.0	0.00	1.70	0.76	YES	
L0046560	0	0.13530E-06	543894.4	3755356.4	286.9	0.00	1.70	0.76	YES	
L0046561	0	0.13530E-06	543894.4	3755352.8	286.9	0.00	1.70	0.76	YES	
L0046562	0	0.13530E-06	543894.4	3755349.1	286.8	0.00	1.70	0.76	YES	
L0046563	0	0.13530E-06	543894.4	3755345.4	286.8	0.00	1.70	0.76	YES	
L0046564	0	0.13530E-06	543894.4	3755341.8	286.7	0.00	1.70	0.76	YES	
L0046565	0	0.13530E-06	543894.5	3755338.1	286.7	0.00	1.70	0.76	YES	
L0046566	0	0.13530E-06	543894.5	3755334.5	286.6	0.00	1.70	0.76	YES	
L0046567	0	0.13530E-06	543894.5	3755330.8	286.5	0.00	1.70	0.76	YES	
L0046568	0	0.13530E-06	543894.5	3755327.1	286.5	0.00	1.70	0.76	YES	
L0046569	0	0.13530E-06	543894.5	3755323.5	286.4	0.00	1.70	0.76	YES	
L0046570	0	0.13530E-06	543894.5	3755319.8	286.4	0.00	1.70	0.76	YES	
L0046571	0	0.13530E-06	543894.3	3755316.2	286.3	0.00	1.70	0.76	YES	
L0046572	0	0.13530E-06	543894.7	3755312.6	286.2	0.00	1.70	0.76	YES	
L0046573	0	0.13530E-06	543896.4	3755309.4	286.2	0.00	1.70	0.76	YES	
L0046574	0	0.13530E-06	543898.1	3755306.2	286.1	0.00	1.70	0.76	YES	
L0046575	0	0.13530E-06	543899.8	3755302.9	286.1	0.00	1.70	0.76	YES	
L0046576	0	0.13530E-06	543901.5	3755299.7	286.0	0.00	1.70	0.76	YES	
L0046577	0	0.13530E-06	543903.2	3755296.5	285.9	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046578	0	0.13530E-06	543904.9	3755293.2	285.9	0.00	1.70	0.76	YES	
L0046579	0	0.13530E-06	543906.6	3755290.0	285.8	0.00	1.70	0.76	YES	
L0046580	0	0.13530E-06	543908.3	3755286.7	285.7	0.00	1.70	0.76	YES	
L0046581	0	0.13530E-06	543910.0	3755283.5	285.7	0.00	1.70	0.76	YES	
L0046582	0	0.13530E-06	543911.7	3755280.3	285.6	0.00	1.70	0.76	YES	
L0046583	0	0.13530E-06	543913.4	3755277.0	285.6	0.00	1.70	0.76	YES	
L0046584	0	0.13530E-06	543915.1	3755273.8	285.5	0.00	1.70	0.76	YES	
L0046585	0	0.13530E-06	543916.8	3755270.5	285.4	0.00	1.70	0.76	YES	
L0046586	0	0.13530E-06	543918.5	3755267.3	285.4	0.00	1.70	0.76	YES	
L0046587	0	0.13530E-06	543920.2	3755264.1	285.3	0.00	1.70	0.76	YES	
L0046588	0	0.13530E-06	543921.9	3755260.8	285.3	0.00	1.70	0.76	YES	
L0046589	0	0.13530E-06	543923.6	3755257.6	285.2	0.00	1.70	0.76	YES	
L0046590	0	0.13530E-06	543925.3	3755254.4	285.2	0.00	1.70	0.76	YES	
L0046591	0	0.13530E-06	543927.0	3755251.1	285.1	0.00	1.70	0.76	YES	

L0046592	0	0.13530E-06	543928.7	3755247.9	285.1	0.00	1.70	0.76	YES	
L0046593	0	0.13530E-06	543930.4	3755244.6	285.0	0.00	1.70	0.76	YES	
L0046594	0	0.13530E-06	543932.1	3755241.4	284.9	0.00	1.70	0.76	YES	
L0046595	0	0.13530E-06	543933.8	3755238.2	284.9	0.00	1.70	0.76	YES	
L0046596	0	0.13530E-06	543935.5	3755234.9	284.8	0.00	1.70	0.76	YES	
L0046597	0	0.13530E-06	543937.2	3755231.7	284.8	0.00	1.70	0.76	YES	
L0046598	0	0.13530E-06	543938.9	3755228.5	284.7	0.00	1.70	0.76	YES	
L0046599	0	0.13530E-06	543940.6	3755225.2	284.6	0.00	1.70	0.76	YES	
L0046600	0	0.13530E-06	543942.3	3755222.0	284.6	0.00	1.70	0.76	YES	
L0046601	0	0.13530E-06	543944.0	3755218.7	284.5	0.00	1.70	0.76	YES	
L0046602	0	0.13530E-06	543945.7	3755215.5	284.4	0.00	1.70	0.76	YES	
L0046603	0	0.13530E-06	543947.4	3755212.3	284.4	0.00	1.70	0.76	YES	
L0046604	0	0.13530E-06	543949.2	3755209.0	284.3	0.00	1.70	0.76	YES	
L0046605	0	0.13530E-06	543951.0	3755205.9	284.2	0.00	1.70	0.76	YES	
L0046606	0	0.13530E-06	543952.8	3755202.7	284.1	0.00	1.70	0.76	YES	
L0046607	0	0.13530E-06	543954.6	3755199.5	284.0	0.00	1.70	0.76	YES	
L0046608	0	0.13530E-06	543956.4	3755196.3	283.9	0.00	1.70	0.76	YES	
L0046609	0	0.13530E-06	543958.2	3755193.2	283.8	0.00	1.70	0.76	YES	
L0046610	0	0.13530E-06	543960.1	3755190.0	283.7	0.00	1.70	0.76	YES	
L0046611	0	0.13530E-06	543961.9	3755186.8	283.6	0.00	1.70	0.76	YES	
L0046612	0	0.13530E-06	543963.7	3755183.6	283.5	0.00	1.70	0.76	YES	
L0046613	0	0.13530E-06	543965.5	3755180.4	283.4	0.00	1.70	0.76	YES	
L0046614	0	0.13530E-06	543967.3	3755177.3	283.3	0.00	1.70	0.76	YES	
L0046615	0	0.13530E-06	543969.1	3755174.1	283.2	0.00	1.70	0.76	YES	
L0046616	0	0.13530E-06	543970.9	3755170.9	283.2	0.00	1.70	0.76	YES	
L0046617	0	0.13530E-06	543972.7	3755167.7	283.1	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046618	0	0.13530E-06	543974.5	3755164.6	283.0	0.00	1.70	0.76	YES	
L0046619	0	0.13530E-06	543976.3	3755161.4	282.9	0.00	1.70	0.76	YES	
L0046620	0	0.13530E-06	543978.2	3755158.2	282.8	0.00	1.70	0.76	YES	
L0046621	0	0.13530E-06	543980.0	3755155.0	282.7	0.00	1.70	0.76	YES	
L0046622	0	0.13530E-06	543981.8	3755151.8	282.6	0.00	1.70	0.76	YES	
L0046623	0	0.13530E-06	543983.6	3755148.7	282.4	0.00	1.70	0.76	YES	
L0046624	0	0.13530E-06	543985.4	3755145.5	282.3	0.00	1.70	0.76	YES	
L0046625	0	0.13530E-06	543987.2	3755142.3	282.2	0.00	1.70	0.76	YES	
L0046626	0	0.13530E-06	543989.0	3755139.1	282.1	0.00	1.70	0.76	YES	
L0046627	0	0.13530E-06	543990.8	3755135.9	281.9	0.00	1.70	0.76	YES	
L0046628	0	0.13530E-06	543992.6	3755132.8	281.9	0.00	1.70	0.76	YES	

L0046629	0	0.13530E-06	543994.4	3755129.6	281.8	0.00	1.70	0.76	YES
L0046630	0	0.13530E-06	543996.3	3755126.4	281.7	0.00	1.70	0.76	YES
L0046631	0	0.13530E-06	543998.1	3755123.2	281.7	0.00	1.70	0.76	YES
L0046632	0	0.13530E-06	543999.9	3755120.1	281.7	0.00	1.70	0.76	YES
L0046633	0	0.13530E-06	544001.7	3755116.9	281.6	0.00	1.70	0.76	YES
L0046634	0	0.13530E-06	544003.5	3755113.7	281.6	0.00	1.70	0.76	YES
L0046635	0	0.13530E-06	544005.3	3755110.5	281.6	0.00	1.70	0.76	YES
L0046636	0	0.13530E-06	544007.1	3755107.3	281.5	0.00	1.70	0.76	YES
L0046637	0	0.13530E-06	544008.9	3755104.2	281.5	0.00	1.70	0.76	YES
L0046638	0	0.13530E-06	544010.7	3755101.0	281.5	0.00	1.70	0.76	YES
L0046639	0	0.13530E-06	544012.6	3755097.8	281.4	0.00	1.70	0.76	YES
L0046640	0	0.13530E-06	544015.6	3755096.8	281.4	0.00	1.70	0.76	YES
L0046641	0	0.13530E-06	544019.3	3755096.9	281.4	0.00	1.70	0.76	YES
L0046642	0	0.13530E-06	544023.0	3755096.9	281.5	0.00	1.70	0.76	YES
L0046643	0	0.13530E-06	544026.6	3755097.0	281.5	0.00	1.70	0.76	YES
L0046644	0	0.13530E-06	544030.3	3755097.0	281.5	0.00	1.70	0.76	YES
L0046645	0	0.13530E-06	544033.9	3755097.1	281.5	0.00	1.70	0.76	YES
L0046646	0	0.13530E-06	544037.6	3755097.1	281.5	0.00	1.70	0.76	YES
L0046647	0	0.13530E-06	544041.2	3755097.2	281.5	0.00	1.70	0.76	YES
L0046648	0	0.13530E-06	544044.9	3755097.3	281.5	0.00	1.70	0.76	YES
L0046649	0	0.13530E-06	544048.6	3755097.3	281.5	0.00	1.70	0.76	YES
L0046650	0	0.13530E-06	544052.2	3755097.4	281.5	0.00	1.70	0.76	YES
L0046651	0	0.13530E-06	544055.9	3755097.4	281.5	0.00	1.70	0.76	YES
L0046652	0	0.13530E-06	544059.5	3755097.5	281.5	0.00	1.70	0.76	YES
L0046653	0	0.13530E-06	544063.2	3755097.5	281.5	0.00	1.70	0.76	YES
L0046654	0	0.13530E-06	544066.8	3755097.6	281.5	0.00	1.70	0.76	YES
L0046655	0	0.13530E-06	544070.5	3755097.6	281.5	0.00	1.70	0.76	YES
L0046656	0	0.13530E-06	544074.2	3755097.7	281.5	0.00	1.70	0.76	YES
L0046657	0	0.13530E-06	544077.8	3755097.7	281.5	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046658	0	0.13530E-06	544081.5	3755097.8	281.5	0.00	1.70	0.76	YES	
L0046659	0	0.13530E-06	544085.1	3755097.8	281.5	0.00	1.70	0.76	YES	
L0046660	0	0.13530E-06	544088.8	3755097.9	281.5	0.00	1.70	0.76	YES	
L0046661	0	0.13530E-06	544092.4	3755097.9	281.5	0.00	1.70	0.76	YES	
L0046662	0	0.13530E-06	544095.1	3755097.0	281.5	0.00	1.70	0.76	YES	
L0046663	0	0.13530E-06	544095.1	3755093.3	281.4	0.00	1.70	0.76	YES	
L0046664	0	0.13530E-06	544095.1	3755089.7	281.4	0.00	1.70	0.76	YES	
L0046665	0	0.13530E-06	544095.1	3755086.0	281.3	0.00	1.70	0.76	YES	

L0046666	0	0.13530E-06	544095.1	3755082.3	281.3	0.00	1.70	0.76	YES
L0046667	0	0.13530E-06	544095.1	3755078.7	281.2	0.00	1.70	0.76	YES
L0046668	0	0.13530E-06	544095.1	3755075.0	281.1	0.00	1.70	0.76	YES
L0046669	0	0.13530E-06	544095.1	3755071.4	281.1	0.00	1.70	0.76	YES
L0046670	0	0.13530E-06	544095.1	3755067.7	281.0	0.00	1.70	0.76	YES
L0046671	0	0.13530E-06	544095.1	3755064.1	280.9	0.00	1.70	0.76	YES
L0046672	0	0.13530E-06	544095.0	3755060.4	280.9	0.00	1.70	0.76	YES
L0046673	0	0.13530E-06	544095.0	3755056.7	280.8	0.00	1.70	0.76	YES
L0046674	0	0.13530E-06	544095.0	3755053.1	280.7	0.00	1.70	0.76	YES
L0046675	0	0.13530E-06	544095.0	3755049.4	280.7	0.00	1.70	0.76	YES
L0046676	0	0.13530E-06	544095.0	3755045.8	280.6	0.00	1.70	0.76	YES
L0046677	0	0.13530E-06	544095.0	3755042.1	280.5	0.00	1.70	0.76	YES
L0046678	0	0.13530E-06	544095.0	3755038.5	280.4	0.00	1.70	0.76	YES
L0046679	0	0.13530E-06	544095.0	3755034.8	280.4	0.00	1.70	0.76	YES
L0046680	0	0.13530E-06	544095.0	3755031.1	280.3	0.00	1.70	0.76	YES
L0046681	0	0.13530E-06	544095.0	3755027.5	280.2	0.00	1.70	0.76	YES
L0046682	0	0.13530E-06	544095.0	3755023.8	280.1	0.00	1.70	0.76	YES
L0046683	0	0.13530E-06	544095.0	3755020.2	280.1	0.00	1.70	0.76	YES
L0046684	0	0.13530E-06	544095.0	3755016.5	280.0	0.00	1.70	0.76	YES
L0046685	0	0.13530E-06	544095.0	3755012.9	279.9	0.00	1.70	0.76	YES
L0046686	0	0.13530E-06	544095.0	3755009.2	279.8	0.00	1.70	0.76	YES
L0046687	0	0.13530E-06	544095.0	3755005.5	279.8	0.00	1.70	0.76	YES
L0046688	0	0.13530E-06	544095.0	3755001.9	279.7	0.00	1.70	0.76	YES
L0046689	0	0.13530E-06	544095.0	3754998.2	279.6	0.00	1.70	0.76	YES
L0046690	0	0.13530E-06	544094.9	3754994.6	279.6	0.00	1.70	0.76	YES
L0046691	0	0.13530E-06	544094.9	3754990.9	279.5	0.00	1.70	0.76	YES
L0046692	0	0.13530E-06	544094.9	3754987.3	279.4	0.00	1.70	0.76	YES
L0046693	0	0.13530E-06	544094.9	3754983.6	279.3	0.00	1.70	0.76	YES
L0046694	0	0.13530E-06	544094.9	3754979.9	279.2	0.00	1.70	0.76	YES
L0046695	0	0.13530E-06	544094.9	3754976.3	279.2	0.00	1.70	0.76	YES
L0046696	0	0.13530E-06	544094.9	3754972.6	279.1	0.00	1.70	0.76	YES
L0046697	0	0.13530E-06	544094.9	3754969.0	279.1	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046698	0	0.13530E-06	544094.9	3754965.3	279.0	0.00	1.70	0.76	YES	
L0046699	0	0.13530E-06	544094.9	3754961.6	278.9	0.00	1.70	0.76	YES	
L0046700	0	0.13530E-06	544094.9	3754958.0	278.9	0.00	1.70	0.76	YES	
L0046701	0	0.13530E-06	544094.9	3754954.3	278.8	0.00	1.70	0.76	YES	
L0046702	0	0.13530E-06	544094.9	3754950.7	278.7	0.00	1.70	0.76	YES	

L0046703	0	0.13530E-06	544094.9	3754947.0	278.7	0.00	1.70	0.76	YES	
L0046704	0	0.13530E-06	544094.9	3754943.4	278.6	0.00	1.70	0.76	YES	
L0046705	0	0.13530E-06	544094.9	3754939.7	278.6	0.00	1.70	0.76	YES	
L0046706	0	0.13530E-06	544094.9	3754936.0	278.5	0.00	1.70	0.76	YES	
L0046707	0	0.13530E-06	544094.9	3754932.4	278.4	0.00	1.70	0.76	YES	
L0046708	0	0.13530E-06	544094.8	3754928.7	278.4	0.00	1.70	0.76	YES	
L0046709	0	0.13530E-06	544094.8	3754925.1	278.3	0.00	1.70	0.76	YES	
L0046710	0	0.13530E-06	544094.8	3754921.4	278.2	0.00	1.70	0.76	YES	
L0046711	0	0.13530E-06	544094.8	3754917.8	278.2	0.00	1.70	0.76	YES	
L0046712	0	0.13530E-06	544094.8	3754914.1	278.1	0.00	1.70	0.76	YES	
L0046713	0	0.13530E-06	544094.8	3754910.4	278.1	0.00	1.70	0.76	YES	
L0046714	0	0.13530E-06	544094.8	3754906.8	278.0	0.00	1.70	0.76	YES	
L0046715	0	0.13530E-06	544094.8	3754903.1	277.9	0.00	1.70	0.76	YES	
L0046716	0	0.13530E-06	544094.8	3754899.5	277.9	0.00	1.70	0.76	YES	
L0046717	0	0.13530E-06	544094.8	3754895.8	277.8	0.00	1.70	0.76	YES	
L0046718	0	0.13530E-06	544094.8	3754892.2	277.7	0.00	1.70	0.76	YES	
L0046719	0	0.13530E-06	544094.8	3754888.5	277.6	0.00	1.70	0.76	YES	
L0046720	0	0.13530E-06	544094.8	3754884.8	277.6	0.00	1.70	0.76	YES	
L0046721	0	0.13530E-06	544094.8	3754881.2	277.5	0.00	1.70	0.76	YES	
L0046722	0	0.13530E-06	544094.8	3754877.5	277.4	0.00	1.70	0.76	YES	
L0046723	0	0.13530E-06	544094.8	3754873.9	277.4	0.00	1.70	0.76	YES	
L0046724	0	0.13530E-06	544094.8	3754870.2	277.3	0.00	1.70	0.76	YES	
L0046725	0	0.13530E-06	544094.8	3754866.6	277.3	0.00	1.70	0.76	YES	
L0046726	0	0.13530E-06	544094.7	3754862.9	277.2	0.00	1.70	0.76	YES	
L0046727	0	0.13530E-06	544094.7	3754859.2	277.2	0.00	1.70	0.76	YES	
L0046728	0	0.13530E-06	544094.7	3754855.6	277.1	0.00	1.70	0.76	YES	
L0046729	0	0.13530E-06	544094.7	3754851.9	277.0	0.00	1.70	0.76	YES	
L0046730	0	0.13530E-06	544094.7	3754848.3	277.0	0.00	1.70	0.76	YES	
L0046731	0	0.13530E-06	544094.7	3754844.6	276.9	0.00	1.70	0.76	YES	
L0046732	0	0.13530E-06	544094.7	3754840.9	276.8	0.00	1.70	0.76	YES	
L0046733	0	0.13530E-06	544094.7	3754837.3	276.8	0.00	1.70	0.76	YES	
L0046734	0	0.13530E-06	544094.7	3754833.6	276.7	0.00	1.70	0.76	YES	
L0046735	0	0.13530E-06	544094.7	3754830.0	276.6	0.00	1.70	0.76	YES	
L0046736	0	0.13530E-06	544094.7	3754826.3	276.6	0.00	1.70	0.76	YES	
L0046737	0	0.13530E-06	544094.7	3754822.7	276.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046738	0	0.13530E-06	544094.7	3754819.0	276.4	0.00	1.70	0.76	YES	
L0046739	0	0.13530E-06	544094.7	3754815.3	276.4	0.00	1.70	0.76	YES	

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L0046740         0   0.13530E-06  544094.7 3754811.7   276.3     0.00     1.70     0.76     YES
L0046741         0   0.13530E-06  544094.7 3754808.0   276.3     0.00     1.70     0.76     YES
L0046742         0   0.13530E-06  544094.7 3754804.4   276.2     0.00     1.70     0.76     YES
L0046743         0   0.13530E-06  544094.7 3754800.7   276.1     0.00     1.70     0.76     YES
L0046744         0   0.13530E-06  544094.6 3754797.1   276.1     0.00     1.70     0.76     YES
L0046745         0   0.13530E-06  544094.6 3754793.4   276.0     0.00     1.70     0.76     YES
L0046746         0   0.13530E-06  544094.6 3754789.7   276.0     0.00     1.70     0.76     YES
L0046747         0   0.13530E-06  544094.6 3754786.1   275.9     0.00     1.70     0.76     YES
L0046748         0   0.13530E-06  544094.6 3754782.4   275.8     0.00     1.70     0.76     YES
L0046749         0   0.13530E-06  544094.6 3754778.8   275.8     0.00     1.70     0.76     YES
L0046750         0   0.13530E-06  544094.6 3754775.1   275.7     0.00     1.70     0.76     YES
L0046751         0   0.13530E-06  544094.6 3754771.5   275.7     0.00     1.70     0.76     YES
L0046752         0   0.13530E-06  544094.6 3754767.8   275.6     0.00     1.70     0.76     YES
L0046753         0   0.13530E-06  544094.6 3754764.1   275.5     0.00     1.70     0.76     YES
L0046754         0   0.13530E-06  544094.6 3754760.5   275.5     0.00     1.70     0.76     YES
L0046755         0   0.13530E-06  544094.6 3754756.8   275.4     0.00     1.70     0.76     YES
L0046756         0   0.13530E-06  544094.6 3754753.2   275.4     0.00     1.70     0.76     YES
L0046757         0   0.13530E-06  544094.6 3754749.5   275.3     0.00     1.70     0.76     YES
L0046758         0   0.13530E-06  544094.6 3754745.9   275.2     0.00     1.70     0.76     YES
L0046759         0   0.13530E-06  544094.6 3754742.2   275.2     0.00     1.70     0.76     YES
L0046760         0   0.95460E-07  543688.1 3755627.4   293.9     0.00     1.70     0.76     YES
L0046761         0   0.95460E-07  543688.0 3755623.7   293.8     0.00     1.70     0.76     YES
L0046762         0   0.95460E-07  543688.0 3755620.1   293.7     0.00     1.70     0.76     YES
L0046763         0   0.95460E-07  543688.0 3755616.4   293.7     0.00     1.70     0.76     YES
L0046764         0   0.95460E-07  543687.9 3755612.7   293.6     0.00     1.70     0.76     YES
L0046765         0   0.95460E-07  543687.9 3755609.1   293.5     0.00     1.70     0.76     YES
L0046766         0   0.95460E-07  543687.9 3755605.4   293.4     0.00     1.70     0.76     YES
L0046767         0   0.95460E-07  543687.8 3755601.8   293.4     0.00     1.70     0.76     YES
L0046768         0   0.95460E-07  543687.8 3755598.1   293.3     0.00     1.70     0.76     YES
L0046769         0   0.95460E-07  543687.7 3755594.5   293.2     0.00     1.70     0.76     YES
L0046770         0   0.95460E-07  543687.7 3755590.8   293.1     0.00     1.70     0.76     YES
L0046771         0   0.95460E-07  543687.7 3755587.1   293.1     0.00     1.70     0.76     YES
L0046772         0   0.95460E-07  543687.6 3755583.5   293.0     0.00     1.70     0.76     YES
L0046773         0   0.95460E-07  543687.6 3755579.8   292.9     0.00     1.70     0.76     YES
L0046774         0   0.95460E-07  543687.6 3755576.2   292.9     0.00     1.70     0.76     YES
L0046775         0   0.95460E-07  543687.5 3755572.5   292.8     0.00     1.70     0.76     YES
L0046776         0   0.95460E-07  543687.5 3755568.9   292.7     0.00     1.70     0.76     YES
L0046777         0   0.95460E-07  543687.5 3755565.2   292.6     0.00     1.70     0.76     YES

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 1st 14 yr                    ***        05/24/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 1st 14 yr                           ***        20:34:00
                                                                                                                PAGE  20
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                        *** VOLUME SOURCE DATA ***

             NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.   URBAN  EMISSION RATE
  SOURCE      PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ     SOURCE  SCALAR VARY
    ID        CATS.               (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)             BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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L0046778	0	0.95460E-07	543687.4	3755561.5	292.6	0.00	1.70	0.76	YES
L0046779	0	0.95460E-07	543687.4	3755557.9	292.5	0.00	1.70	0.76	YES
L0046780	0	0.95460E-07	543687.3	3755554.2	292.4	0.00	1.70	0.76	YES
L0046781	0	0.95460E-07	543687.3	3755550.6	292.4	0.00	1.70	0.76	YES
L0046782	0	0.95460E-07	543687.3	3755546.9	292.3	0.00	1.70	0.76	YES
L0046783	0	0.95460E-07	543687.2	3755543.3	292.2	0.00	1.70	0.76	YES
L0046784	0	0.95460E-07	543687.2	3755539.6	292.2	0.00	1.70	0.76	YES
L0046785	0	0.95460E-07	543687.2	3755535.9	292.1	0.00	1.70	0.76	YES
L0046786	0	0.95460E-07	543687.1	3755532.3	292.1	0.00	1.70	0.76	YES
L0046787	0	0.95460E-07	543687.1	3755528.6	292.0	0.00	1.70	0.76	YES
L0046788	0	0.95460E-07	543687.1	3755525.0	291.9	0.00	1.70	0.76	YES
L0046789	0	0.95460E-07	543687.0	3755521.3	291.9	0.00	1.70	0.76	YES
L0046790	0	0.95460E-07	543687.0	3755517.6	291.8	0.00	1.70	0.76	YES
L0046791	0	0.95460E-07	543687.0	3755514.0	291.7	0.00	1.70	0.76	YES
L0046792	0	0.95460E-07	543686.9	3755510.3	291.7	0.00	1.70	0.76	YES
L0046793	0	0.95460E-07	543686.9	3755506.7	291.6	0.00	1.70	0.76	YES
L0046794	0	0.95460E-07	543686.8	3755503.0	291.6	0.00	1.70	0.76	YES
L0046795	0	0.95460E-07	543686.8	3755499.4	291.5	0.00	1.70	0.76	YES
L0046796	0	0.95460E-07	543686.8	3755495.7	291.4	0.00	1.70	0.76	YES
L0046797	0	0.95460E-07	543686.7	3755492.0	291.4	0.00	1.70	0.76	YES
L0046798	0	0.95460E-07	543686.7	3755488.4	291.3	0.00	1.70	0.76	YES
L0046799	0	0.95460E-07	543686.7	3755484.7	291.2	0.00	1.70	0.76	YES
L0046800	0	0.95460E-07	543686.6	3755481.1	291.2	0.00	1.70	0.76	YES
L0046801	0	0.95460E-07	543686.6	3755477.4	291.1	0.00	1.70	0.76	YES
L0046802	0	0.95460E-07	543686.6	3755473.8	291.1	0.00	1.70	0.76	YES
L0046803	0	0.95460E-07	543686.5	3755470.1	291.0	0.00	1.70	0.76	YES
L0046804	0	0.95460E-07	543686.5	3755466.4	290.9	0.00	1.70	0.76	YES
L0046805	0	0.95460E-07	543686.4	3755462.8	290.9	0.00	1.70	0.76	YES
L0046806	0	0.95460E-07	543686.4	3755459.1	290.8	0.00	1.70	0.76	YES
L0046807	0	0.95460E-07	543686.4	3755455.5	290.7	0.00	1.70	0.76	YES
L0046808	0	0.95460E-07	543686.3	3755451.8	290.7	0.00	1.70	0.76	YES
L0046809	0	0.95460E-07	543686.3	3755448.2	290.6	0.00	1.70	0.76	YES
L0046810	0	0.95460E-07	543686.3	3755444.5	290.5	0.00	1.70	0.76	YES
L0046811	0	0.95460E-07	543686.2	3755440.8	290.4	0.00	1.70	0.76	YES
L0046812	0	0.95460E-07	543686.2	3755437.2	290.4	0.00	1.70	0.76	YES
L0046813	0	0.95460E-07	543686.2	3755433.5	290.3	0.00	1.70	0.76	YES
L0046814	0	0.95460E-07	543686.1	3755429.9	290.2	0.00	1.70	0.76	YES
L0046815	0	0.95460E-07	543686.1	3755426.2	290.2	0.00	1.70	0.76	YES
L0046816	0	0.95460E-07	543686.1	3755422.6	290.1	0.00	1.70	0.76	YES
L0046817	0	0.95460E-07	543686.0	3755418.9	290.0	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER	EMISSION RATE	BASE	RELEASE	INIT.	INIT.	URBAN	EMISSION RATE

SOURCE ID	PART. CATS.	(GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE	SCALAR VARY BY
L0046818	0	0.95460E-07	543686.0	3755415.2	290.0	0.00	1.70	0.76	YES	
L0046819	0	0.95460E-07	543685.9	3755411.6	289.9	0.00	1.70	0.76	YES	
L0046820	0	0.95460E-07	543685.9	3755407.9	289.8	0.00	1.70	0.76	YES	
L0046821	0	0.95460E-07	543685.9	3755404.3	289.8	0.00	1.70	0.76	YES	
L0046822	0	0.95460E-07	543685.8	3755400.6	289.7	0.00	1.70	0.76	YES	
L0046823	0	0.95460E-07	543685.8	3755397.0	289.6	0.00	1.70	0.76	YES	
L0046824	0	0.95460E-07	543685.8	3755393.3	289.6	0.00	1.70	0.76	YES	
L0046825	0	0.95460E-07	543685.7	3755389.6	289.5	0.00	1.70	0.76	YES	
L0046826	0	0.95460E-07	543685.7	3755386.0	289.5	0.00	1.70	0.76	YES	
L0046827	0	0.95460E-07	543685.7	3755382.3	289.4	0.00	1.70	0.76	YES	
L0046828	0	0.95460E-07	543685.6	3755378.7	289.3	0.00	1.70	0.76	YES	
L0046829	0	0.95460E-07	543685.6	3755375.0	289.3	0.00	1.70	0.76	YES	
L0046830	0	0.95460E-07	543685.5	3755371.4	289.2	0.00	1.70	0.76	YES	
L0046831	0	0.95460E-07	543685.5	3755367.7	289.2	0.00	1.70	0.76	YES	
L0046832	0	0.95460E-07	543685.5	3755364.0	289.1	0.00	1.70	0.76	YES	
L0046833	0	0.95460E-07	543685.4	3755360.4	289.0	0.00	1.70	0.76	YES	
L0046834	0	0.95460E-07	543685.4	3755356.7	288.9	0.00	1.70	0.76	YES	
L0046835	0	0.95460E-07	543685.4	3755353.1	288.9	0.00	1.70	0.76	YES	
L0046836	0	0.95460E-07	543685.3	3755349.4	288.8	0.00	1.70	0.76	YES	
L0046837	0	0.95460E-07	543685.3	3755345.8	288.7	0.00	1.70	0.76	YES	
L0046838	0	0.95460E-07	543685.3	3755342.1	288.7	0.00	1.70	0.76	YES	
L0046839	0	0.95460E-07	543685.2	3755338.4	288.6	0.00	1.70	0.76	YES	
L0046840	0	0.95460E-07	543685.2	3755334.8	288.6	0.00	1.70	0.76	YES	
L0046841	0	0.95460E-07	543685.1	3755331.1	288.5	0.00	1.70	0.76	YES	
L0046842	0	0.95460E-07	543685.1	3755327.5	288.4	0.00	1.70	0.76	YES	
L0046843	0	0.95460E-07	543685.1	3755323.8	288.4	0.00	1.70	0.76	YES	
L0046844	0	0.95460E-07	543685.0	3755320.1	288.3	0.00	1.70	0.76	YES	
L0046845	0	0.95460E-07	543685.0	3755316.5	288.3	0.00	1.70	0.76	YES	
L0046846	0	0.95460E-07	543685.0	3755312.8	288.2	0.00	1.70	0.76	YES	
L0046847	0	0.95460E-07	543684.9	3755309.2	288.2	0.00	1.70	0.76	YES	
L0046848	0	0.95460E-07	543684.9	3755305.5	288.1	0.00	1.70	0.76	YES	
L0046849	0	0.95460E-07	543684.9	3755301.9	288.0	0.00	1.70	0.76	YES	
L0046850	0	0.95460E-07	543684.8	3755298.2	288.0	0.00	1.70	0.76	YES	
L0046851	0	0.95460E-07	543684.8	3755294.5	287.9	0.00	1.70	0.76	YES	
L0046852	0	0.95460E-07	543684.8	3755290.9	287.8	0.00	1.70	0.76	YES	
L0046853	0	0.95460E-07	543684.7	3755287.2	287.8	0.00	1.70	0.76	YES	
L0046854	0	0.95460E-07	543684.7	3755283.6	287.7	0.00	1.70	0.76	YES	
L0046855	0	0.95460E-07	543684.6	3755279.9	287.6	0.00	1.70	0.76	YES	
L0046856	0	0.95460E-07	543684.6	3755276.3	287.6	0.00	1.70	0.76	YES	
L0046857	0	0.95460E-07	543684.6	3755272.6	287.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046858	0	0.95460E-07	543684.5	3755268.9	287.4	0.00	1.70	0.76	YES	
L0046859	0	0.95460E-07	543684.5	3755265.3	287.4	0.00	1.70	0.76	YES	
L0046860	0	0.95460E-07	543684.5	3755261.6	287.3	0.00	1.70	0.76	YES	
L0046861	0	0.95460E-07	543684.4	3755258.0	287.3	0.00	1.70	0.76	YES	
L0046862	0	0.95460E-07	543684.4	3755254.3	287.2	0.00	1.70	0.76	YES	
L0046863	0	0.95460E-07	543684.4	3755250.7	287.2	0.00	1.70	0.76	YES	
L0046864	0	0.95460E-07	543684.3	3755247.0	287.1	0.00	1.70	0.76	YES	
L0046865	0	0.95460E-07	543684.3	3755243.3	287.0	0.00	1.70	0.76	YES	
L0046866	0	0.95460E-07	543684.2	3755239.7	286.9	0.00	1.70	0.76	YES	
L0046867	0	0.95460E-07	543684.2	3755236.0	286.9	0.00	1.70	0.76	YES	
L0046868	0	0.95460E-07	543684.2	3755232.4	286.8	0.00	1.70	0.76	YES	
L0046869	0	0.95460E-07	543684.1	3755228.7	286.7	0.00	1.70	0.76	YES	
L0046870	0	0.95460E-07	543684.1	3755225.1	286.6	0.00	1.70	0.76	YES	
L0046871	0	0.95460E-07	543684.1	3755221.4	286.6	0.00	1.70	0.76	YES	
L0046872	0	0.95460E-07	543684.0	3755217.7	286.5	0.00	1.70	0.76	YES	
L0046873	0	0.95460E-07	543684.0	3755214.1	286.4	0.00	1.70	0.76	YES	
L0046874	0	0.95460E-07	543684.0	3755210.4	286.4	0.00	1.70	0.76	YES	
L0046875	0	0.95460E-07	543683.9	3755206.8	286.3	0.00	1.70	0.76	YES	
L0046876	0	0.95460E-07	543683.9	3755203.1	286.3	0.00	1.70	0.76	YES	
L0046877	0	0.95460E-07	543683.8	3755199.5	286.2	0.00	1.70	0.76	YES	
L0046878	0	0.95460E-07	543683.8	3755195.8	286.1	0.00	1.70	0.76	YES	
L0046879	0	0.95460E-07	543683.8	3755192.1	286.1	0.00	1.70	0.76	YES	
L0046880	0	0.95460E-07	543683.7	3755188.5	286.0	0.00	1.70	0.76	YES	
L0046881	0	0.95460E-07	543683.7	3755184.8	285.9	0.00	1.70	0.76	YES	
L0046882	0	0.95460E-07	543683.7	3755181.2	285.9	0.00	1.70	0.76	YES	
L0046883	0	0.95460E-07	543683.6	3755177.5	285.8	0.00	1.70	0.76	YES	
L0046884	0	0.95460E-07	543683.6	3755173.9	285.7	0.00	1.70	0.76	YES	
L0046885	0	0.95460E-07	543683.6	3755170.2	285.7	0.00	1.70	0.76	YES	
L0046886	0	0.95460E-07	543683.5	3755166.5	285.6	0.00	1.70	0.76	YES	
L0046887	0	0.95460E-07	543683.5	3755162.9	285.5	0.00	1.70	0.76	YES	
L0046888	0	0.95460E-07	543683.5	3755159.2	285.4	0.00	1.70	0.76	YES	
L0046889	0	0.95460E-07	543683.4	3755155.6	285.4	0.00	1.70	0.76	YES	
L0046890	0	0.95460E-07	543683.4	3755151.9	285.3	0.00	1.70	0.76	YES	
L0046891	0	0.95460E-07	543683.3	3755148.2	285.2	0.00	1.70	0.76	YES	
L0046892	0	0.95460E-07	543683.3	3755144.6	285.1	0.00	1.70	0.76	YES	
L0046893	0	0.95460E-07	543683.3	3755140.9	285.1	0.00	1.70	0.76	YES	
L0046894	0	0.95460E-07	543683.2	3755137.3	285.0	0.00	1.70	0.76	YES	
L0046895	0	0.95460E-07	543683.2	3755133.6	284.9	0.00	1.70	0.76	YES	
L0046896	0	0.95460E-07	543683.2	3755130.0	284.8	0.00	1.70	0.76	YES	
L0046897	0	0.95460E-07	543683.1	3755126.3	284.8	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046898	0	0.95460E-07	543683.1	3755122.6	284.7	0.00	1.70	0.76	YES	
L0046899	0	0.95460E-07	543683.1	3755119.0	284.6	0.00	1.70	0.76	YES	
L0046900	0	0.95460E-07	543683.0	3755115.3	284.6	0.00	1.70	0.76	YES	
L0046901	0	0.95460E-07	543683.0	3755111.7	284.5	0.00	1.70	0.76	YES	
L0046902	0	0.95460E-07	543682.9	3755108.0	284.4	0.00	1.70	0.76	YES	
L0046903	0	0.95460E-07	543682.9	3755104.4	284.3	0.00	1.70	0.76	YES	
L0046904	0	0.95460E-07	543682.9	3755100.7	284.2	0.00	1.70	0.76	YES	
L0046905	0	0.95460E-07	543682.8	3755097.0	284.2	0.00	1.70	0.76	YES	
L0046906	0	0.95460E-07	543682.8	3755093.4	284.1	0.00	1.70	0.76	YES	
L0046907	0	0.95460E-07	543682.8	3755089.7	284.0	0.00	1.70	0.76	YES	
L0046908	0	0.95460E-07	543682.7	3755086.1	284.0	0.00	1.70	0.76	YES	
L0046909	0	0.95460E-07	543682.7	3755082.4	283.9	0.00	1.70	0.76	YES	
L0046910	0	0.95460E-07	543682.7	3755078.8	283.8	0.00	1.70	0.76	YES	
L0046911	0	0.95460E-07	543682.6	3755075.1	283.7	0.00	1.70	0.76	YES	
L0046912	0	0.95460E-07	543682.6	3755071.4	283.7	0.00	1.70	0.76	YES	
L0046913	0	0.95460E-07	543682.5	3755067.8	283.6	0.00	1.70	0.76	YES	
L0046914	0	0.95460E-07	543682.5	3755064.1	283.5	0.00	1.70	0.76	YES	
L0046915	0	0.95460E-07	543682.5	3755060.5	283.5	0.00	1.70	0.76	YES	
L0046916	0	0.95460E-07	543682.4	3755056.8	283.4	0.00	1.70	0.76	YES	
L0046917	0	0.95460E-07	543682.4	3755053.2	283.3	0.00	1.70	0.76	YES	
L0046918	0	0.95460E-07	543682.4	3755049.5	283.2	0.00	1.70	0.76	YES	
L0046919	0	0.95460E-07	543682.3	3755045.8	283.2	0.00	1.70	0.76	YES	
L0046920	0	0.95460E-07	543682.3	3755042.2	283.1	0.00	1.70	0.76	YES	
L0046921	0	0.95460E-07	543682.3	3755038.5	283.0	0.00	1.70	0.76	YES	
L0046922	0	0.95460E-07	543682.2	3755034.9	283.0	0.00	1.70	0.76	YES	
L0046923	0	0.95460E-07	543682.2	3755031.2	282.9	0.00	1.70	0.76	YES	
L0046924	0	0.95460E-07	543682.2	3755027.6	282.9	0.00	1.70	0.76	YES	
L0046925	0	0.95460E-07	543682.1	3755023.9	282.8	0.00	1.70	0.76	YES	
L0046926	0	0.95460E-07	543682.1	3755020.2	282.8	0.00	1.70	0.76	YES	
L0046927	0	0.95460E-07	543682.0	3755016.6	282.7	0.00	1.70	0.76	YES	
L0046928	0	0.95460E-07	543682.0	3755012.9	282.7	0.00	1.70	0.76	YES	
L0046929	0	0.95460E-07	543682.0	3755009.3	282.6	0.00	1.70	0.76	YES	
L0046930	0	0.95460E-07	543681.9	3755005.6	282.6	0.00	1.70	0.76	YES	
L0046931	0	0.95460E-07	543681.9	3755002.0	282.5	0.00	1.70	0.76	YES	
L0046932	0	0.95460E-07	543681.9	3754998.3	282.4	0.00	1.70	0.76	YES	
L0046933	0	0.95460E-07	543681.8	3754994.6	282.4	0.00	1.70	0.76	YES	
L0046934	0	0.95460E-07	543681.8	3754991.0	282.3	0.00	1.70	0.76	YES	
L0046935	0	0.95460E-07	543681.8	3754987.3	282.3	0.00	1.70	0.76	YES	
L0046936	0	0.95460E-07	543681.7	3754983.7	282.2	0.00	1.70	0.76	YES	
L0046937	0	0.95460E-07	543681.7	3754980.0	282.2	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046938	0	0.95460E-07	543681.6	3754976.4	282.1	0.00	1.70	0.76	YES	
L0046939	0	0.95460E-07	543681.6	3754972.7	282.0	0.00	1.70	0.76	YES	
L0046940	0	0.95460E-07	543681.6	3754969.0	282.0	0.00	1.70	0.76	YES	
L0046941	0	0.95460E-07	543681.5	3754965.4	281.9	0.00	1.70	0.76	YES	
L0046942	0	0.95460E-07	543681.5	3754961.7	281.9	0.00	1.70	0.76	YES	
L0046943	0	0.95460E-07	543681.5	3754958.1	281.8	0.00	1.70	0.76	YES	
L0046944	0	0.95460E-07	543681.4	3754954.4	281.8	0.00	1.70	0.76	YES	
L0046945	0	0.95460E-07	543681.4	3754950.7	281.7	0.00	1.70	0.76	YES	
L0046946	0	0.95460E-07	543681.4	3754947.1	281.7	0.00	1.70	0.76	YES	
L0046947	0	0.95460E-07	543681.3	3754943.4	281.6	0.00	1.70	0.76	YES	
L0046948	0	0.95460E-07	543681.3	3754939.8	281.6	0.00	1.70	0.76	YES	
L0046949	0	0.95460E-07	543681.2	3754936.1	281.5	0.00	1.70	0.76	YES	
L0046950	0	0.95460E-07	543681.2	3754932.5	281.4	0.00	1.70	0.76	YES	
L0046951	0	0.95460E-07	543681.2	3754928.8	281.4	0.00	1.70	0.76	YES	
L0046952	0	0.95460E-07	543681.1	3754925.1	281.3	0.00	1.70	0.76	YES	
L0046953	0	0.95460E-07	543681.1	3754921.5	281.3	0.00	1.70	0.76	YES	
L0046954	0	0.95460E-07	543681.1	3754917.8	281.2	0.00	1.70	0.76	YES	
L0046955	0	0.95460E-07	543681.0	3754914.2	281.1	0.00	1.70	0.76	YES	
L0046956	0	0.95460E-07	543681.0	3754910.5	281.1	0.00	1.70	0.76	YES	
L0046957	0	0.95460E-07	543681.0	3754906.9	281.0	0.00	1.70	0.76	YES	
L0046958	0	0.95460E-07	543680.9	3754903.2	280.9	0.00	1.70	0.76	YES	
L0046959	0	0.95460E-07	543680.9	3754899.5	280.9	0.00	1.70	0.76	YES	
L0046960	0	0.95460E-07	543680.9	3754895.9	280.8	0.00	1.70	0.76	YES	
L0046961	0	0.95460E-07	543680.8	3754892.2	280.7	0.00	1.70	0.76	YES	
L0046962	0	0.95460E-07	543680.8	3754888.6	280.6	0.00	1.70	0.76	YES	
L0046963	0	0.95460E-07	543680.7	3754884.9	280.6	0.00	1.70	0.76	YES	
L0046964	0	0.95460E-07	543680.7	3754881.3	280.5	0.00	1.70	0.76	YES	
L0046965	0	0.95460E-07	543680.7	3754877.6	280.4	0.00	1.70	0.76	YES	
L0046966	0	0.95460E-07	543680.6	3754873.9	280.4	0.00	1.70	0.76	YES	
L0046967	0	0.95460E-07	543680.6	3754870.3	280.3	0.00	1.70	0.76	YES	
L0046968	0	0.95460E-07	543680.6	3754866.6	280.2	0.00	1.70	0.76	YES	
L0046969	0	0.95460E-07	543680.5	3754863.0	280.1	0.00	1.70	0.76	YES	
L0046970	0	0.95460E-07	543680.5	3754859.3	280.1	0.00	1.70	0.76	YES	
L0046971	0	0.95460E-07	543680.5	3754855.7	280.0	0.00	1.70	0.76	YES	
L0046972	0	0.95460E-07	543680.4	3754852.0	279.9	0.00	1.70	0.76	YES	
L0046973	0	0.95460E-07	543680.4	3754848.3	279.8	0.00	1.70	0.76	YES	
L0046974	0	0.95460E-07	543680.3	3754844.7	279.8	0.00	1.70	0.76	YES	
L0046975	0	0.95460E-07	543680.3	3754841.0	279.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046976	0	0.95460E-07	543680.3	3754837.4	279.6	0.00	1.70	0.76	YES	
L0046977	0	0.95460E-07	543680.2	3754833.7	279.5	0.00	1.70	0.76	YES	
L0046978	0	0.95460E-07	543680.2	3754830.1	279.4	0.00	1.70	0.76	YES	
L0046979	0	0.95460E-07	543680.2	3754826.4	279.4	0.00	1.70	0.76	YES	
L0046980	0	0.95460E-07	543680.1	3754822.7	279.3	0.00	1.70	0.76	YES	
L0046981	0	0.95460E-07	543680.1	3754819.1	279.2	0.00	1.70	0.76	YES	
L0046982	0	0.95460E-07	543680.1	3754815.4	279.1	0.00	1.70	0.76	YES	
L0046983	0	0.95460E-07	543680.0	3754811.8	279.0	0.00	1.70	0.76	YES	
L0046984	0	0.95460E-07	543680.0	3754808.1	279.0	0.00	1.70	0.76	YES	
L0046985	0	0.95460E-07	543679.9	3754804.5	278.9	0.00	1.70	0.76	YES	
L0046986	0	0.95460E-07	543679.9	3754800.8	278.8	0.00	1.70	0.76	YES	
L0046987	0	0.95460E-07	543679.9	3754797.1	278.7	0.00	1.70	0.76	YES	
L0046988	0	0.95460E-07	543679.8	3754793.5	278.7	0.00	1.70	0.76	YES	
L0046989	0	0.95460E-07	543679.8	3754789.8	278.6	0.00	1.70	0.76	YES	
L0046990	0	0.95460E-07	543679.8	3754786.2	278.5	0.00	1.70	0.76	YES	
L0046991	0	0.95460E-07	543679.7	3754782.5	278.4	0.00	1.70	0.76	YES	
L0046992	0	0.95460E-07	543679.7	3754778.9	278.4	0.00	1.70	0.76	YES	
L0046993	0	0.95460E-07	543679.7	3754775.2	278.3	0.00	1.70	0.76	YES	
L0046994	0	0.95460E-07	543679.6	3754771.5	278.2	0.00	1.70	0.76	YES	
L0046995	0	0.95460E-07	543679.6	3754767.9	278.2	0.00	1.70	0.76	YES	
L0046996	0	0.95460E-07	543679.6	3754764.2	278.1	0.00	1.70	0.76	YES	
L0046997	0	0.95460E-07	543679.5	3754760.6	278.0	0.00	1.70	0.76	YES	
L0046998	0	0.95460E-07	543679.5	3754756.9	277.9	0.00	1.70	0.76	YES	
L0046999	0	0.95460E-07	543679.4	3754753.2	277.9	0.00	1.70	0.76	YES	
L0047000	0	0.95460E-07	543679.4	3754749.6	277.8	0.00	1.70	0.76	YES	
L0047001	0	0.95460E-07	543679.4	3754745.9	277.7	0.00	1.70	0.76	YES	
L0047002	0	0.95460E-07	543679.3	3754742.3	277.6	0.00	1.70	0.76	YES	
L0047003	0	0.95460E-07	543679.3	3754738.6	277.6	0.00	1.70	0.76	YES	
L0047004	0	0.95460E-07	543679.3	3754735.0	277.5	0.00	1.70	0.76	YES	
L0047005	0	0.95460E-07	543679.2	3754731.3	277.4	0.00	1.70	0.76	YES	
L0047006	0	0.95460E-07	543679.2	3754727.6	277.3	0.00	1.70	0.76	YES	
L0047007	0	0.95460E-07	543679.2	3754724.0	277.3	0.00	1.70	0.76	YES	
L0047008	0	0.95460E-07	543679.1	3754720.3	277.2	0.00	1.70	0.76	YES	
L0047009	0	0.95460E-07	543679.1	3754716.7	277.1	0.00	1.70	0.76	YES	
L0047010	0	0.95460E-07	543679.0	3754713.0	277.1	0.00	1.70	0.76	YES	
L0047011	0	0.95460E-07	543679.0	3754709.4	277.0	0.00	1.70	0.76	YES	
L0047012	0	0.95460E-07	543679.0	3754705.7	276.9	0.00	1.70	0.76	YES	

L0047013	0	0.95460E-07	543678.9	3754702.0	276.8	0.00	1.70	0.76	YES	
L0047014	0	0.95460E-07	543678.9	3754698.4	276.8	0.00	1.70	0.76	YES	
L0047015	0	0.95460E-07	543678.9	3754694.7	276.7	0.00	1.70	0.76	YES	
L0047016	0	0.95460E-07	543678.8	3754691.1	276.6	0.00	1.70	0.76	YES	
L0047017	0	0.95460E-07	543678.8	3754687.4	276.6	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047018	0	0.95460E-07	543678.8	3754683.8	276.5	0.00	1.70	0.76	YES	
L0047019	0	0.95460E-07	543678.7	3754680.1	276.4	0.00	1.70	0.76	YES	
L0047020	0	0.95460E-07	543678.7	3754676.4	276.4	0.00	1.70	0.76	YES	
L0047021	0	0.95460E-07	543678.7	3754672.8	276.3	0.00	1.70	0.76	YES	
L0047022	0	0.95460E-07	543678.6	3754669.1	276.2	0.00	1.70	0.76	YES	
L0047023	0	0.95460E-07	543678.6	3754665.5	276.2	0.00	1.70	0.76	YES	
L0047024	0	0.95460E-07	543678.5	3754661.8	276.1	0.00	1.70	0.76	YES	
L0047025	0	0.95460E-07	543678.5	3754658.2	276.1	0.00	1.70	0.76	YES	
L0047026	0	0.95460E-07	543678.5	3754654.5	276.0	0.00	1.70	0.76	YES	
L0047027	0	0.95460E-07	543678.4	3754650.8	275.9	0.00	1.70	0.76	YES	
L0047028	0	0.95460E-07	543678.4	3754647.2	275.9	0.00	1.70	0.76	YES	
L0047029	0	0.95460E-07	543678.4	3754643.5	275.8	0.00	1.70	0.76	YES	
L0047030	0	0.95460E-07	543678.3	3754639.9	275.8	0.00	1.70	0.76	YES	
L0047031	0	0.95460E-07	543678.3	3754636.2	275.7	0.00	1.70	0.76	YES	
L0047032	0	0.95460E-07	543678.3	3754632.6	275.7	0.00	1.70	0.76	YES	
L0047033	0	0.95460E-07	543678.2	3754628.9	275.6	0.00	1.70	0.76	YES	
L0047034	0	0.95460E-07	543678.2	3754625.2	275.5	0.00	1.70	0.76	YES	
L0047035	0	0.95460E-07	543678.1	3754621.6	275.5	0.00	1.70	0.76	YES	
L0047036	0	0.95460E-07	543678.1	3754617.9	275.4	0.00	1.70	0.76	YES	
L0047037	0	0.95460E-07	543678.1	3754614.3	275.3	0.00	1.70	0.76	YES	
L0047038	0	0.95460E-07	543678.0	3754610.6	275.3	0.00	1.70	0.76	YES	
L0047039	0	0.95460E-07	543678.0	3754607.0	275.2	0.00	1.70	0.76	YES	
L0047040	0	0.95460E-07	543678.0	3754603.3	275.2	0.00	1.70	0.76	YES	
L0047041	0	0.95460E-07	543677.9	3754599.6	275.1	0.00	1.70	0.76	YES	
L0047042	0	0.95460E-07	543677.9	3754596.0	275.0	0.00	1.70	0.76	YES	
L0047043	0	0.95460E-07	543677.9	3754592.3	274.9	0.00	1.70	0.76	YES	
L0047044	0	0.95460E-07	543677.8	3754588.7	274.9	0.00	1.70	0.76	YES	
L0047045	0	0.95460E-07	543677.8	3754585.0	274.8	0.00	1.70	0.76	YES	
L0047046	0	0.95460E-07	543677.7	3754581.3	274.7	0.00	1.70	0.76	YES	
L0047047	0	0.95460E-07	543677.7	3754577.7	274.6	0.00	1.70	0.76	YES	
L0047048	0	0.95460E-07	543677.7	3754574.0	274.6	0.00	1.70	0.76	YES	
L0047049	0	0.95460E-07	543677.6	3754570.4	274.5	0.00	1.70	0.76	YES	

L0047050	0	0.95460E-07	543677.6	3754566.7	274.4	0.00	1.70	0.76	YES	
L0047051	0	0.95460E-07	543677.6	3754563.1	274.3	0.00	1.70	0.76	YES	
L0047052	0	0.95460E-07	543677.5	3754559.4	274.3	0.00	1.70	0.76	YES	
L0047053	0	0.95460E-07	543677.5	3754555.7	274.2	0.00	1.70	0.76	YES	
L0047054	0	0.95460E-07	543677.5	3754552.1	274.1	0.00	1.70	0.76	YES	
L0047055	0	0.95460E-07	543677.4	3754548.4	274.1	0.00	1.70	0.76	YES	
L0047056	0	0.95460E-07	543677.4	3754544.8	274.0	0.00	1.70	0.76	YES	
L0047057	0	0.95460E-07	543677.4	3754541.1	273.9	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047058	0	0.95460E-07	543677.3	3754537.5	273.8	0.00	1.70	0.76	YES	
L0047059	0	0.95460E-07	543677.3	3754533.8	273.8	0.00	1.70	0.76	YES	
L0047060	0	0.95460E-07	543677.2	3754530.1	273.7	0.00	1.70	0.76	YES	
L0047061	0	0.95460E-07	543677.2	3754526.5	273.6	0.00	1.70	0.76	YES	
L0047062	0	0.95460E-07	543677.2	3754522.8	273.5	0.00	1.70	0.76	YES	
L0047063	0	0.95460E-07	543677.1	3754519.2	273.5	0.00	1.70	0.76	YES	
L0047064	0	0.95460E-07	543677.1	3754515.5	273.4	0.00	1.70	0.76	YES	
L0047065	0	0.95460E-07	543677.1	3754511.9	273.3	0.00	1.70	0.76	YES	
L0047066	0	0.95460E-07	543677.0	3754508.2	273.2	0.00	1.70	0.76	YES	
L0047067	0	0.95460E-07	543677.0	3754504.5	273.2	0.00	1.70	0.76	YES	
L0047068	0	0.95460E-07	543677.0	3754500.9	273.1	0.00	1.70	0.76	YES	
L0047069	0	0.95460E-07	543676.9	3754497.2	273.0	0.00	1.70	0.76	YES	
L0047070	0	0.95460E-07	543676.9	3754493.6	273.0	0.00	1.70	0.76	YES	
L0047071	0	0.95460E-07	543676.8	3754489.9	272.9	0.00	1.70	0.76	YES	
L0047072	0	0.95460E-07	543676.8	3754486.3	272.8	0.00	1.70	0.76	YES	
L0047073	0	0.95460E-07	543676.8	3754482.6	272.7	0.00	1.70	0.76	YES	
L0047074	0	0.95460E-07	543676.7	3754478.9	272.7	0.00	1.70	0.76	YES	
L0047075	0	0.95460E-07	543676.7	3754475.3	272.6	0.00	1.70	0.76	YES	
L0047076	0	0.95460E-07	543676.7	3754471.6	272.5	0.00	1.70	0.76	YES	
L0047077	0	0.95460E-07	543676.6	3754468.0	272.4	0.00	1.70	0.76	YES	
L0047078	0	0.95460E-07	543676.6	3754464.3	272.4	0.00	1.70	0.76	YES	
L0047079	0	0.95460E-07	543676.6	3754460.7	272.3	0.00	1.70	0.76	YES	
L0047080	0	0.95460E-07	543676.5	3754457.0	272.2	0.00	1.70	0.76	YES	
L0047081	0	0.95460E-07	543676.5	3754453.3	272.2	0.00	1.70	0.76	YES	
L0047082	0	0.95460E-07	543676.4	3754449.7	272.1	0.00	1.70	0.76	YES	
L0047083	0	0.95460E-07	543676.4	3754446.0	272.0	0.00	1.70	0.76	YES	
L0047084	0	0.95460E-07	543676.4	3754442.4	271.9	0.00	1.70	0.76	YES	
L0047085	0	0.95460E-07	543676.3	3754438.7	271.9	0.00	1.70	0.76	YES	
L0047086	0	0.95460E-07	543676.3	3754435.1	271.8	0.00	1.70	0.76	YES	

L0047087	0	0.95460E-07	543676.3	3754431.4	271.7	0.00	1.70	0.76	YES
L0047088	0	0.95460E-07	543676.2	3754427.7	271.7	0.00	1.70	0.76	YES
L0047089	0	0.95460E-07	543676.2	3754424.1	271.6	0.00	1.70	0.76	YES
L0047090	0	0.95460E-07	543676.2	3754420.4	271.5	0.00	1.70	0.76	YES
L0047091	0	0.95460E-07	543676.1	3754416.8	271.4	0.00	1.70	0.76	YES
L0047092	0	0.95460E-07	543676.1	3754413.1	271.4	0.00	1.70	0.76	YES
L0047093	0	0.95460E-07	543676.1	3754409.5	271.3	0.00	1.70	0.76	YES
L0047094	0	0.95460E-07	543676.0	3754405.8	271.2	0.00	1.70	0.76	YES
L0047095	0	0.95460E-07	543676.0	3754402.1	271.2	0.00	1.70	0.76	YES
L0047096	0	0.95460E-07	543675.9	3754398.5	271.1	0.00	1.70	0.76	YES
L0047097	0	0.95460E-07	543675.9	3754394.8	271.0	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047098	0	0.95460E-07	543675.9	3754391.2	270.9	0.00	1.70	0.76	YES	
L0047099	0	0.95460E-07	543675.8	3754387.5	270.9	0.00	1.70	0.76	YES	
L0047100	0	0.95460E-07	543675.8	3754383.8	270.8	0.00	1.70	0.76	YES	
L0047101	0	0.95460E-07	543675.8	3754380.2	270.7	0.00	1.70	0.76	YES	
L0047102	0	0.95460E-07	543675.7	3754376.5	270.7	0.00	1.70	0.76	YES	
L0047103	0	0.95460E-07	543675.7	3754372.9	270.6	0.00	1.70	0.76	YES	
L0047104	0	0.95460E-07	543675.7	3754369.2	270.5	0.00	1.70	0.76	YES	
L0047105	0	0.95460E-07	543675.6	3754365.6	270.4	0.00	1.70	0.76	YES	
L0047106	0	0.95460E-07	543675.6	3754361.9	270.4	0.00	1.70	0.76	YES	
L0047107	0	0.95460E-07	543675.5	3754358.2	270.3	0.00	1.70	0.76	YES	
L0047108	0	0.95460E-07	543675.5	3754354.6	270.2	0.00	1.70	0.76	YES	
L0047109	0	0.95460E-07	543675.5	3754350.9	270.1	0.00	1.70	0.76	YES	
L0047110	0	0.95460E-07	543675.4	3754347.3	270.0	0.00	1.70	0.76	YES	
L0047111	0	0.95460E-07	543675.4	3754343.6	269.9	0.00	1.70	0.76	YES	
L0047112	0	0.95460E-07	543675.4	3754340.0	269.9	0.00	1.70	0.76	YES	
L0047113	0	0.95460E-07	543675.3	3754336.3	269.8	0.00	1.70	0.76	YES	
L0047114	0	0.95460E-07	543675.3	3754332.6	269.7	0.00	1.70	0.76	YES	
L0047115	0	0.95460E-07	543675.3	3754329.0	269.6	0.00	1.70	0.76	YES	
L0047116	0	0.95460E-07	543675.2	3754325.3	269.5	0.00	1.70	0.76	YES	
L0047117	0	0.95460E-07	543675.2	3754321.7	269.4	0.00	1.70	0.76	YES	
L0047118	0	0.95460E-07	543675.1	3754318.0	269.4	0.00	1.70	0.76	YES	
L0047119	0	0.95460E-07	543675.1	3754314.4	269.3	0.00	1.70	0.76	YES	
L0047120	0	0.95460E-07	543675.1	3754310.7	269.2	0.00	1.70	0.76	YES	
L0047121	0	0.95460E-07	543675.0	3754307.0	269.1	0.00	1.70	0.76	YES	
L0047122	0	0.95460E-07	543675.0	3754303.4	269.1	0.00	1.70	0.76	YES	
L0047123	0	0.95460E-07	543675.0	3754299.7	269.0	0.00	1.70	0.76	YES	

L0047124	0	0.95460E-07	543674.9	3754296.1	268.9	0.00	1.70	0.76	YES	
L0047125	0	0.95460E-07	543674.9	3754292.4	268.9	0.00	1.70	0.76	YES	
L0047126	0	0.95460E-07	543674.9	3754288.8	268.8	0.00	1.70	0.76	YES	
L0047127	0	0.95460E-07	543674.8	3754285.1	268.7	0.00	1.70	0.76	YES	
L0047128	0	0.95460E-07	543674.8	3754281.4	268.7	0.00	1.70	0.76	YES	
L0047129	0	0.95460E-07	543674.8	3754277.8	268.6	0.00	1.70	0.76	YES	
L0047130	0	0.95460E-07	543674.7	3754274.1	268.6	0.00	1.70	0.76	YES	
L0047131	0	0.95460E-07	543674.7	3754270.5	268.5	0.00	1.70	0.76	YES	
L0047132	0	0.95460E-07	543674.6	3754266.8	268.4	0.00	1.70	0.76	YES	
L0047133	0	0.95460E-07	543674.6	3754263.2	268.4	0.00	1.70	0.76	YES	
L0047134	0	0.95460E-07	543674.6	3754259.5	268.3	0.00	1.70	0.76	YES	
L0047135	0	0.95460E-07	543674.5	3754255.8	268.3	0.00	1.70	0.76	YES	
L0047136	0	0.95460E-07	543674.5	3754252.2	268.2	0.00	1.70	0.76	YES	
L0047137	0	0.95460E-07	543674.5	3754248.5	268.1	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047138	0	0.95460E-07	543674.4	3754244.9	268.1	0.00	1.70	0.76	YES	
L0047139	0	0.95460E-07	543674.4	3754241.2	268.0	0.00	1.70	0.76	YES	
L0047140	0	0.95460E-07	543674.4	3754237.6	267.9	0.00	1.70	0.76	YES	
L0047141	0	0.95460E-07	543674.3	3754233.9	267.9	0.00	1.70	0.76	YES	
L0047142	0	0.95460E-07	543674.3	3754230.2	267.8	0.00	1.70	0.76	YES	
L0047143	0	0.95460E-07	543674.2	3754226.6	267.8	0.00	1.70	0.76	YES	
L0047144	0	0.95460E-07	543674.2	3754222.9	267.7	0.00	1.70	0.76	YES	
L0047145	0	0.95460E-07	543674.2	3754219.3	267.7	0.00	1.70	0.76	YES	
L0047146	0	0.95460E-07	543674.1	3754215.6	267.6	0.00	1.70	0.76	YES	
L0047147	0	0.95460E-07	543674.1	3754211.9	267.6	0.00	1.70	0.76	YES	
L0047148	0	0.95460E-07	543674.1	3754208.3	267.5	0.00	1.70	0.76	YES	
L0047149	0	0.95460E-07	543674.0	3754204.6	267.5	0.00	1.70	0.76	YES	
L0047150	0	0.95460E-07	543674.0	3754201.0	267.4	0.00	1.70	0.76	YES	
L0047151	0	0.95460E-07	543674.0	3754197.3	267.4	0.00	1.70	0.76	YES	
L0047152	0	0.95460E-07	543673.9	3754193.7	267.3	0.00	1.70	0.76	YES	
L0047153	0	0.95460E-07	543673.9	3754190.0	267.2	0.00	1.70	0.76	YES	
L0047154	0	0.95460E-07	543673.8	3754186.3	267.2	0.00	1.70	0.76	YES	
L0047155	0	0.95460E-07	543673.8	3754182.7	267.1	0.00	1.70	0.76	YES	
L0047156	0	0.95460E-07	543673.8	3754179.0	267.1	0.00	1.70	0.76	YES	
L0047157	0	0.95460E-07	543673.7	3754175.4	267.0	0.00	1.70	0.76	YES	
L0047158	0	0.95460E-07	543673.7	3754171.7	266.9	0.00	1.70	0.76	YES	
L0047159	0	0.95460E-07	543673.7	3754168.1	266.9	0.00	1.70	0.76	YES	
L0047160	0	0.95460E-07	543673.6	3754164.4	266.8	0.00	1.70	0.76	YES	

L0047161	0	0.95460E-07	543673.6	3754160.7	266.7	0.00	1.70	0.76	YES	
L0047162	0	0.95460E-07	543673.6	3754157.1	266.7	0.00	1.70	0.76	YES	
L0047163	0	0.95460E-07	543673.5	3754153.4	266.6	0.00	1.70	0.76	YES	
L0047164	0	0.95460E-07	543673.5	3754149.8	266.5	0.00	1.70	0.76	YES	
L0047165	0	0.95460E-07	543673.5	3754146.1	266.4	0.00	1.70	0.76	YES	
L0047166	0	0.95460E-07	543673.4	3754142.5	266.4	0.00	1.70	0.76	YES	
L0047167	0	0.95460E-07	543673.4	3754138.8	266.3	0.00	1.70	0.76	YES	
L0047168	0	0.95460E-07	543673.3	3754135.1	266.2	0.00	1.70	0.76	YES	
L0047169	0	0.95460E-07	543673.3	3754131.5	266.2	0.00	1.70	0.76	YES	
L0047170	0	0.95460E-07	543673.3	3754127.8	266.1	0.00	1.70	0.76	YES	
L0047171	0	0.95460E-07	543673.2	3754124.2	266.1	0.00	1.70	0.76	YES	
L0047172	0	0.95460E-07	543673.2	3754120.5	266.0	0.00	1.70	0.76	YES	
L0047173	0	0.95460E-07	543673.2	3754116.9	265.9	0.00	1.70	0.76	YES	
L0047174	0	0.95460E-07	543673.1	3754113.2	265.9	0.00	1.70	0.76	YES	
L0047175	0	0.95460E-07	543673.1	3754109.5	265.8	0.00	1.70	0.76	YES	
L0047176	0	0.95460E-07	543673.1	3754105.9	265.7	0.00	1.70	0.76	YES	
L0047177	0	0.95460E-07	543673.0	3754102.2	265.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047178	0	0.95460E-07	543673.0	3754098.6	265.6	0.00	1.70	0.76	YES	
L0047179	0	0.95460E-07	543672.9	3754094.9	265.6	0.00	1.70	0.76	YES	
L0047180	0	0.95460E-07	543672.9	3754091.3	265.5	0.00	1.70	0.76	YES	
L0047181	0	0.95460E-07	543672.9	3754087.6	265.4	0.00	1.70	0.76	YES	
L0047182	0	0.95460E-07	543672.8	3754083.9	265.4	0.00	1.70	0.76	YES	
L0047183	0	0.95460E-07	543672.8	3754080.3	265.3	0.00	1.70	0.76	YES	
L0047184	0	0.95460E-07	543672.8	3754076.6	265.2	0.00	1.70	0.76	YES	
L0047185	0	0.95460E-07	543672.7	3754073.0	265.2	0.00	1.70	0.76	YES	
L0047186	0	0.95460E-07	543672.7	3754069.3	265.1	0.00	1.70	0.76	YES	
L0047187	0	0.95460E-07	543672.7	3754065.7	265.0	0.00	1.70	0.76	YES	
L0047188	0	0.95460E-07	543672.6	3754062.0	264.9	0.00	1.70	0.76	YES	
L0047189	0	0.95460E-07	543672.6	3754058.3	264.9	0.00	1.70	0.76	YES	
L0047190	0	0.95460E-07	543672.5	3754054.7	264.8	0.00	1.70	0.76	YES	
L0047191	0	0.95460E-07	543672.5	3754051.0	264.7	0.00	1.70	0.76	YES	
L0047192	0	0.95460E-07	543672.5	3754047.4	264.7	0.00	1.70	0.76	YES	
L0047193	0	0.95460E-07	543672.4	3754043.7	264.6	0.00	1.70	0.76	YES	
L0047194	0	0.95460E-07	543672.4	3754040.1	264.5	0.00	1.70	0.76	YES	
L0047195	0	0.95460E-07	543672.4	3754036.4	264.5	0.00	1.70	0.76	YES	
L0047196	0	0.95460E-07	543672.3	3754032.7	264.4	0.00	1.70	0.76	YES	
L0047197	0	0.95460E-07	543672.3	3754029.1	264.3	0.00	1.70	0.76	YES	

L0047198	0	0.95460E-07	543672.3	3754025.4	264.3	0.00	1.70	0.76	YES
L0047199	0	0.95460E-07	543672.2	3754021.8	264.2	0.00	1.70	0.76	YES
L0047200	0	0.95460E-07	543672.2	3754018.1	264.1	0.00	1.70	0.76	YES
L0047201	0	0.95460E-07	543672.2	3754014.4	264.1	0.00	1.70	0.76	YES
L0047202	0	0.95460E-07	543672.1	3754010.8	264.0	0.00	1.70	0.76	YES
L0047203	0	0.95460E-07	543672.1	3754007.1	263.9	0.00	1.70	0.76	YES
L0047204	0	0.95460E-07	543672.0	3754003.5	263.9	0.00	1.70	0.76	YES
L0047205	0	0.95460E-07	543672.0	3753999.8	263.8	0.00	1.70	0.76	YES
L0047206	0	0.95460E-07	543672.0	3753996.2	263.7	0.00	1.70	0.76	YES
L0047207	0	0.95460E-07	543671.9	3753992.5	263.7	0.00	1.70	0.76	YES
L0047208	0	0.95460E-07	543671.9	3753988.8	263.6	0.00	1.70	0.76	YES
L0047209	0	0.95460E-07	543671.9	3753985.2	263.5	0.00	1.70	0.76	YES
L0047210	0	0.95460E-07	543671.8	3753981.5	263.4	0.00	1.70	0.76	YES
L0047211	0	0.95460E-07	543671.8	3753977.9	263.4	0.00	1.70	0.76	YES
L0047212	0	0.95460E-07	543671.8	3753974.2	263.3	0.00	1.70	0.76	YES
L0047213	0	0.95460E-07	543671.7	3753970.6	263.2	0.00	1.70	0.76	YES
L0047214	0	0.95460E-07	543671.7	3753966.9	263.2	0.00	1.70	0.76	YES
L0047215	0	0.95460E-07	543671.6	3753963.2	263.1	0.00	1.70	0.76	YES
L0047216	0	0.95460E-07	543671.6	3753959.6	263.0	0.00	1.70	0.76	YES
L0047217	0	0.95460E-07	543671.6	3753955.9	262.9	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047218	0	0.95460E-07	543671.5	3753952.3	262.9	0.00	1.70	0.76	YES	
L0047219	0	0.95460E-07	543671.5	3753948.6	262.8	0.00	1.70	0.76	YES	
L0047220	0	0.95460E-07	543671.5	3753945.0	262.7	0.00	1.70	0.76	YES	
L0047221	0	0.95460E-07	543671.4	3753941.3	262.7	0.00	1.70	0.76	YES	
L0047222	0	0.95460E-07	543671.4	3753937.6	262.6	0.00	1.70	0.76	YES	
L0047223	0	0.53910E-07	543669.1	3753932.3	262.5	0.00	1.70	0.76	YES	
L0047224	0	0.53910E-07	543665.5	3753932.3	262.5	0.00	1.70	0.76	YES	
L0047225	0	0.53910E-07	543661.8	3753932.3	262.5	0.00	1.70	0.76	YES	
L0047226	0	0.53910E-07	543658.2	3753932.3	262.5	0.00	1.70	0.76	YES	
L0047227	0	0.53910E-07	543654.5	3753932.3	262.5	0.00	1.70	0.76	YES	
L0047228	0	0.53910E-07	543650.9	3753932.3	262.5	0.00	1.70	0.76	YES	
L0047229	0	0.53910E-07	543647.2	3753932.3	262.5	0.00	1.70	0.76	YES	
L0047230	0	0.53910E-07	543643.5	3753932.3	262.6	0.00	1.70	0.76	YES	
L0047231	0	0.53910E-07	543639.9	3753932.3	262.6	0.00	1.70	0.76	YES	
L0047232	0	0.53910E-07	543636.2	3753932.2	262.6	0.00	1.70	0.76	YES	
L0047233	0	0.53910E-07	543632.6	3753932.2	262.6	0.00	1.70	0.76	YES	
L0047234	0	0.53910E-07	543628.9	3753932.2	262.6	0.00	1.70	0.76	YES	

L0047235	0	0.53910E-07	543625.2	3753932.2	262.6	0.00	1.70	0.76	YES
L0047236	0	0.53910E-07	543621.6	3753932.2	262.6	0.00	1.70	0.76	YES
L0047237	0	0.53910E-07	543617.9	3753932.2	262.6	0.00	1.70	0.76	YES
L0047238	0	0.53910E-07	543614.3	3753932.2	262.6	0.00	1.70	0.76	YES
L0047239	0	0.53910E-07	543610.6	3753932.2	262.6	0.00	1.70	0.76	YES
L0047240	0	0.53910E-07	543607.0	3753932.2	262.6	0.00	1.70	0.76	YES
L0047241	0	0.53910E-07	543603.3	3753932.2	262.7	0.00	1.70	0.76	YES
L0047242	0	0.53910E-07	543599.6	3753932.2	262.7	0.00	1.70	0.76	YES
L0047243	0	0.53910E-07	543596.0	3753932.2	262.7	0.00	1.70	0.76	YES
L0047244	0	0.53910E-07	543592.3	3753932.1	262.7	0.00	1.70	0.76	YES
L0047245	0	0.53910E-07	543588.7	3753932.1	262.7	0.00	1.70	0.76	YES
L0047246	0	0.53910E-07	543585.0	3753932.1	262.7	0.00	1.70	0.76	YES
L0047247	0	0.53910E-07	543581.4	3753932.1	262.7	0.00	1.70	0.76	YES
L0047248	0	0.53910E-07	543577.7	3753932.1	262.7	0.00	1.70	0.76	YES
L0047249	0	0.53910E-07	543574.0	3753932.1	262.8	0.00	1.70	0.76	YES
L0047250	0	0.53910E-07	543570.4	3753932.1	262.8	0.00	1.70	0.76	YES
L0047251	0	0.53910E-07	543566.7	3753932.1	262.8	0.00	1.70	0.76	YES
L0047252	0	0.53910E-07	543563.1	3753932.1	262.8	0.00	1.70	0.76	YES
L0047253	0	0.53910E-07	543559.4	3753932.1	262.8	0.00	1.70	0.76	YES
L0047254	0	0.53910E-07	543555.8	3753932.1	262.8	0.00	1.70	0.76	YES
L0047255	0	0.53910E-07	543552.1	3753932.0	262.9	0.00	1.70	0.76	YES
L0047256	0	0.53910E-07	543548.4	3753932.0	262.9	0.00	1.70	0.76	YES
L0047257	0	0.53910E-07	543544.8	3753932.0	262.9	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047258	0	0.53910E-07	543541.1	3753932.0	262.9	0.00	1.70	0.76	YES	
L0047259	0	0.53910E-07	543537.5	3753932.0	262.9	0.00	1.70	0.76	YES	
L0047260	0	0.53910E-07	543533.8	3753932.0	262.9	0.00	1.70	0.76	YES	
L0047261	0	0.53910E-07	543530.2	3753932.0	262.9	0.00	1.70	0.76	YES	
L0047262	0	0.53910E-07	543526.5	3753932.0	263.0	0.00	1.70	0.76	YES	
L0047263	0	0.53910E-07	543522.8	3753932.0	263.0	0.00	1.70	0.76	YES	
L0047264	0	0.53910E-07	543519.2	3753932.0	263.1	0.00	1.70	0.76	YES	
L0047265	0	0.53910E-07	543515.5	3753932.0	263.1	0.00	1.70	0.76	YES	
L0047266	0	0.53910E-07	543511.9	3753932.0	263.1	0.00	1.70	0.76	YES	
L0047267	0	0.53910E-07	543508.2	3753931.9	263.2	0.00	1.70	0.76	YES	
L0047268	0	0.53910E-07	543504.5	3753931.9	263.2	0.00	1.70	0.76	YES	
L0047269	0	0.53910E-07	543500.9	3753931.9	263.2	0.00	1.70	0.76	YES	
L0047270	0	0.53910E-07	543497.2	3753931.9	263.3	0.00	1.70	0.76	YES	
L0047271	0	0.53910E-07	543493.6	3753931.9	263.3	0.00	1.70	0.76	YES	

L0047272	0	0.53910E-07	543489.9	3753931.9	263.3	0.00	1.70	0.76	YES	
L0047273	0	0.53910E-07	543486.3	3753931.9	263.4	0.00	1.70	0.76	YES	
L0047274	0	0.53910E-07	543482.6	3753931.9	263.4	0.00	1.70	0.76	YES	
L0047275	0	0.53910E-07	543478.9	3753931.9	263.4	0.00	1.70	0.76	YES	
L0047276	0	0.53910E-07	543475.3	3753931.9	263.4	0.00	1.70	0.76	YES	
L0047277	0	0.53910E-07	543471.6	3753931.9	263.4	0.00	1.70	0.76	YES	
L0047278	0	0.53910E-07	543468.0	3753931.9	263.4	0.00	1.70	0.76	YES	
L0047279	0	0.53910E-07	543464.3	3753931.8	263.5	0.00	1.70	0.76	YES	
L0047280	0	0.53910E-07	543460.7	3753931.8	263.5	0.00	1.70	0.76	YES	
L0047281	0	0.53910E-07	543457.0	3753931.8	263.5	0.00	1.70	0.76	YES	
L0047282	0	0.53910E-07	543453.3	3753931.8	263.5	0.00	1.70	0.76	YES	
L0047283	0	0.53910E-07	543449.7	3753931.8	263.5	0.00	1.70	0.76	YES	
L0047284	0	0.53910E-07	543446.0	3753931.8	263.5	0.00	1.70	0.76	YES	
L0047285	0	0.53910E-07	543442.4	3753931.8	263.6	0.00	1.70	0.76	YES	
L0047286	0	0.53910E-07	543438.7	3753931.8	263.6	0.00	1.70	0.76	YES	
L0047287	0	0.53910E-07	543435.1	3753931.8	263.6	0.00	1.70	0.76	YES	
L0047288	0	0.53910E-07	543431.4	3753931.8	263.6	0.00	1.70	0.76	YES	
L0047289	0	0.53910E-07	543427.7	3753931.8	263.6	0.00	1.70	0.76	YES	
L0047290	0	0.53910E-07	543424.1	3753931.8	263.6	0.00	1.70	0.76	YES	
L0047291	0	0.53910E-07	543420.4	3753931.7	263.7	0.00	1.70	0.76	YES	
L0047292	0	0.53910E-07	543416.8	3753931.7	263.7	0.00	1.70	0.76	YES	
L0047293	0	0.53910E-07	543413.1	3753931.7	263.7	0.00	1.70	0.76	YES	
L0047294	0	0.53910E-07	543409.5	3753931.7	263.7	0.00	1.70	0.76	YES	
L0047295	0	0.53910E-07	543405.8	3753931.7	263.7	0.00	1.70	0.76	YES	
L0047296	0	0.53910E-07	543402.1	3753931.7	263.7	0.00	1.70	0.76	YES	
L0047297	0	0.53910E-07	543398.5	3753931.7	263.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047298	0	0.53910E-07	543394.8	3753931.7	263.7	0.00	1.70	0.76	YES	
L0047299	0	0.53910E-07	543391.2	3753931.7	263.8	0.00	1.70	0.76	YES	
L0047300	0	0.53910E-07	543387.5	3753931.7	263.8	0.00	1.70	0.76	YES	
L0047301	0	0.53910E-07	543383.8	3753931.7	263.8	0.00	1.70	0.76	YES	
L0047302	0	0.53910E-07	543380.2	3753931.7	263.8	0.00	1.70	0.76	YES	
L0047303	0	0.53910E-07	543376.5	3753931.6	263.8	0.00	1.70	0.76	YES	
L0047304	0	0.53910E-07	543372.9	3753931.6	263.8	0.00	1.70	0.76	YES	
L0047305	0	0.53910E-07	543369.2	3753931.6	263.8	0.00	1.70	0.76	YES	
L0047306	0	0.53910E-07	543365.6	3753931.6	263.8	0.00	1.70	0.76	YES	
L0047307	0	0.53910E-07	543361.9	3753931.6	263.8	0.00	1.70	0.76	YES	
L0047308	0	0.53910E-07	543358.2	3753931.6	263.9	0.00	1.70	0.76	YES	

L0047309	0	0.53910E-07	543354.6	3753931.6	263.9	0.00	1.70	0.76	YES	
L0047310	0	0.53910E-07	543350.9	3753931.6	263.9	0.00	1.70	0.76	YES	
L0047311	0	0.53910E-07	543347.3	3753931.6	263.9	0.00	1.70	0.76	YES	
L0047312	0	0.53910E-07	543343.6	3753931.6	263.9	0.00	1.70	0.76	YES	
L0047313	0	0.53910E-07	543340.0	3753931.6	263.9	0.00	1.70	0.76	YES	
L0047314	0	0.53910E-07	543336.3	3753931.6	263.9	0.00	1.70	0.76	YES	
L0047315	0	0.53910E-07	543332.6	3753931.5	263.9	0.00	1.70	0.76	YES	
L0047316	0	0.53910E-07	543329.0	3753931.5	263.9	0.00	1.70	0.76	YES	
L0047317	0	0.53910E-07	543325.3	3753931.5	263.9	0.00	1.70	0.76	YES	
L0047318	0	0.53910E-07	543321.7	3753931.5	263.9	0.00	1.70	0.76	YES	
L0047319	0	0.53910E-07	543318.0	3753931.5	263.9	0.00	1.70	0.76	YES	
L0047320	0	0.53910E-07	543314.4	3753931.5	263.9	0.00	1.70	0.76	YES	
L0047321	0	0.53910E-07	543310.7	3753931.5	263.9	0.00	1.70	0.76	YES	
L0047322	0	0.53910E-07	543307.0	3753931.5	263.9	0.00	1.70	0.76	YES	
L0047323	0	0.53910E-07	543303.4	3753931.5	263.9	0.00	1.70	0.76	YES	
L0047324	0	0.53910E-07	543299.7	3753931.5	263.9	0.00	1.70	0.76	YES	
L0047325	0	0.53910E-07	543296.1	3753931.5	263.9	0.00	1.70	0.76	YES	
L0047326	0	0.53910E-07	543292.4	3753931.4	263.9	0.00	1.70	0.76	YES	
L0047327	0	0.53910E-07	543288.8	3753931.4	263.9	0.00	1.70	0.76	YES	
L0047328	0	0.53910E-07	543285.1	3753931.4	263.9	0.00	1.70	0.76	YES	
L0047329	0	0.53910E-07	543281.4	3753931.4	263.9	0.00	1.70	0.76	YES	
L0047330	0	0.53910E-07	543277.8	3753931.4	263.9	0.00	1.70	0.76	YES	
L0047331	0	0.53910E-07	543274.1	3753931.4	263.9	0.00	1.70	0.76	YES	
L0047332	0	0.53910E-07	543270.5	3753931.4	263.9	0.00	1.70	0.76	YES	
L0047333	0	0.53910E-07	543266.8	3753931.4	263.9	0.00	1.70	0.76	YES	
L0047334	0	0.53910E-07	543263.1	3753931.4	264.0	0.00	1.70	0.76	YES	
L0047335	0	0.53910E-07	543259.5	3753931.4	264.0	0.00	1.70	0.76	YES	
L0047336	0	0.53910E-07	543255.8	3753931.4	264.0	0.00	1.70	0.76	YES	
L0047337	0	0.53910E-07	543252.2	3753931.4	264.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047338	0	0.53910E-07	543248.5	3753931.3	264.0	0.00	1.70	0.76	YES	
L0047339	0	0.53910E-07	543244.9	3753931.3	264.0	0.00	1.70	0.76	YES	
L0047340	0	0.53910E-07	543241.2	3753931.3	264.0	0.00	1.70	0.76	YES	
L0047341	0	0.53910E-07	543237.5	3753931.3	264.1	0.00	1.70	0.76	YES	
L0047342	0	0.53910E-07	543233.9	3753931.3	264.1	0.00	1.70	0.76	YES	
L0047343	0	0.53910E-07	543230.2	3753931.3	264.1	0.00	1.70	0.76	YES	
L0047344	0	0.53910E-07	543226.6	3753931.3	264.1	0.00	1.70	0.76	YES	
L0047345	0	0.53910E-07	543222.9	3753931.3	264.1	0.00	1.70	0.76	YES	

L0047346	0	0.53910E-07	543219.3	3753931.3	264.1	0.00	1.70	0.76	YES
L0047347	0	0.53910E-07	543215.6	3753931.3	264.1	0.00	1.70	0.76	YES
L0047348	0	0.53910E-07	543211.9	3753931.3	264.1	0.00	1.70	0.76	YES
L0047349	0	0.53910E-07	543208.3	3753931.3	264.2	0.00	1.70	0.76	YES
L0047350	0	0.53910E-07	543204.6	3753931.2	264.2	0.00	1.70	0.76	YES
L0047351	0	0.53910E-07	543201.0	3753931.2	264.2	0.00	1.70	0.76	YES
L0047352	0	0.53910E-07	543197.3	3753931.2	264.2	0.00	1.70	0.76	YES
L0047353	0	0.53910E-07	543193.7	3753931.2	264.2	0.00	1.70	0.76	YES
L0047354	0	0.53910E-07	543190.0	3753931.2	264.2	0.00	1.70	0.76	YES
L0047355	0	0.53910E-07	543186.3	3753931.2	264.2	0.00	1.70	0.76	YES
L0047356	0	0.53910E-07	543182.7	3753931.2	264.2	0.00	1.70	0.76	YES
L0047357	0	0.53910E-07	543179.0	3753931.2	264.2	0.00	1.70	0.76	YES
L0047358	0	0.53910E-07	543175.4	3753931.2	264.3	0.00	1.70	0.76	YES
L0047359	0	0.53910E-07	543171.7	3753931.2	264.3	0.00	1.70	0.76	YES
L0047360	0	0.53910E-07	543168.1	3753931.2	264.3	0.00	1.70	0.76	YES
L0047361	0	0.53910E-07	543164.4	3753931.2	264.3	0.00	1.70	0.76	YES
L0047362	0	0.53910E-07	543160.7	3753931.1	264.3	0.00	1.70	0.76	YES
L0047363	0	0.53910E-07	543157.1	3753931.1	264.3	0.00	1.70	0.76	YES
L0047364	0	0.53910E-07	543153.4	3753931.1	264.3	0.00	1.70	0.76	YES
L0047365	0	0.53910E-07	543149.8	3753931.1	264.3	0.00	1.70	0.76	YES
L0047366	0	0.53910E-07	543146.1	3753931.1	264.3	0.00	1.70	0.76	YES
L0047367	0	0.53910E-07	543142.4	3753931.1	264.3	0.00	1.70	0.76	YES
L0047368	0	0.53910E-07	543138.8	3753931.1	264.3	0.00	1.70	0.76	YES
L0047369	0	0.53910E-07	543135.1	3753931.1	264.3	0.00	1.70	0.76	YES
L0047370	0	0.53910E-07	543131.5	3753931.1	264.3	0.00	1.70	0.76	YES
L0047371	0	0.53910E-07	543127.8	3753931.1	264.3	0.00	1.70	0.76	YES
L0047372	0	0.53910E-07	543124.2	3753931.1	264.4	0.00	1.70	0.76	YES
L0047373	0	0.53910E-07	543120.5	3753931.1	264.4	0.00	1.70	0.76	YES
L0047374	0	0.53910E-07	543116.8	3753931.0	264.4	0.00	1.70	0.76	YES
L0047375	0	0.53910E-07	543113.2	3753931.0	264.4	0.00	1.70	0.76	YES
L0047376	0	0.53910E-07	543109.5	3753931.0	264.4	0.00	1.70	0.76	YES
L0047377	0	0.53910E-07	543105.9	3753931.0	264.4	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047378	0	0.53910E-07	543102.2	3753931.0	264.4	0.00	1.70	0.76	YES	
L0047379	0	0.53910E-07	543098.6	3753931.0	264.4	0.00	1.70	0.76	YES	
L0047380	0	0.53910E-07	543094.9	3753931.0	264.4	0.00	1.70	0.76	YES	
L0047381	0	0.53910E-07	543091.2	3753931.0	264.4	0.00	1.70	0.76	YES	
L0047382	0	0.53910E-07	543087.6	3753931.0	264.4	0.00	1.70	0.76	YES	

L0047383	0	0.53910E-07	543083.9	3753931.0	264.4	0.00	1.70	0.76	YES	
L0047384	0	0.53910E-07	543080.3	3753931.0	264.4	0.00	1.70	0.76	YES	
L0047385	0	0.53910E-07	543076.6	3753931.0	264.4	0.00	1.70	0.76	YES	
L0047386	0	0.53910E-07	543073.0	3753930.9	264.4	0.00	1.70	0.76	YES	
L0047387	0	0.53910E-07	543069.3	3753930.9	264.4	0.00	1.70	0.76	YES	
L0047388	0	0.53910E-07	543065.6	3753930.9	264.4	0.00	1.70	0.76	YES	
L0047389	0	0.53910E-07	543062.0	3753930.9	264.4	0.00	1.70	0.76	YES	
L0047390	0	0.53910E-07	543058.3	3753930.9	264.4	0.00	1.70	0.76	YES	
L0047391	0	0.53910E-07	543054.7	3753930.9	264.4	0.00	1.70	0.76	YES	
L0047392	0	0.53910E-07	543051.0	3753930.9	264.4	0.00	1.70	0.76	YES	
L0047393	0	0.53910E-07	543047.3	3753930.9	264.4	0.00	1.70	0.76	YES	
L0047394	0	0.53910E-07	543043.7	3753930.9	264.4	0.00	1.70	0.76	YES	
L0047395	0	0.53910E-07	543040.0	3753930.9	264.4	0.00	1.70	0.76	YES	
L0047396	0	0.53910E-07	543036.4	3753930.9	264.4	0.00	1.70	0.76	YES	
L0047397	0	0.53910E-07	543032.7	3753930.8	264.4	0.00	1.70	0.76	YES	
L0047398	0	0.53910E-07	543029.1	3753930.8	264.4	0.00	1.70	0.76	YES	
L0047399	0	0.53910E-07	543025.4	3753930.8	264.4	0.00	1.70	0.76	YES	
L0047400	0	0.53910E-07	543021.7	3753930.8	264.4	0.00	1.70	0.76	YES	
L0047401	0	0.53910E-07	543018.1	3753930.8	264.4	0.00	1.70	0.76	YES	
L0047402	0	0.53910E-07	543014.4	3753930.8	264.4	0.00	1.70	0.76	YES	
L0047403	0	0.53910E-07	543010.8	3753930.8	264.4	0.00	1.70	0.76	YES	
L0047404	0	0.53910E-07	543007.1	3753930.8	264.4	0.00	1.70	0.76	YES	
L0047405	0	0.53910E-07	543003.5	3753930.8	264.4	0.00	1.70	0.76	YES	
L0047406	0	0.53910E-07	542999.8	3753930.8	264.4	0.00	1.70	0.76	YES	
L0047407	0	0.53910E-07	542996.1	3753930.8	264.4	0.00	1.70	0.76	YES	
L0047408	0	0.53910E-07	542992.5	3753930.8	264.4	0.00	1.70	0.76	YES	
L0047409	0	0.53910E-07	542988.8	3753930.7	264.4	0.00	1.70	0.76	YES	
L0047410	0	0.53910E-07	542985.2	3753930.7	264.4	0.00	1.70	0.76	YES	
L0047411	0	0.53910E-07	542981.5	3753930.7	264.4	0.00	1.70	0.76	YES	
L0047412	0	0.53910E-07	542977.9	3753930.7	264.4	0.00	1.70	0.76	YES	
L0047413	0	0.53910E-07	542974.2	3753930.7	264.4	0.00	1.70	0.76	YES	
L0047414	0	0.53910E-07	542970.5	3753930.7	264.4	0.00	1.70	0.76	YES	
L0047415	0	0.53910E-07	542966.9	3753930.7	264.4	0.00	1.70	0.76	YES	
L0047416	0	0.53910E-07	542963.2	3753930.7	264.4	0.00	1.70	0.76	YES	
L0047417	0	0.53910E-07	542959.6	3753930.7	264.4	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047418	0	0.53910E-07	542955.9	3753930.7	264.5	0.00	1.70	0.76	YES	
L0047419	0	0.53910E-07	542952.3	3753930.7	264.5	0.00	1.70	0.76	YES	

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L0047420         0   0.53910E-07  542948.6 3753930.7   264.5     0.00     1.70     0.76     YES
L0047421         0   0.53910E-07  542944.9 3753930.6   264.5     0.00     1.70     0.76     YES
L0047422         0   0.53910E-07  542941.3 3753930.6   264.5     0.00     1.70     0.76     YES
L0047423         0   0.53910E-07  542937.6 3753930.6   264.5     0.00     1.70     0.76     YES
L0047424         0   0.53910E-07  542934.0 3753930.6   264.6     0.00     1.70     0.76     YES
L0047425         0   0.53910E-07  542930.3 3753930.6   264.6     0.00     1.70     0.76     YES
L0047426         0   0.53910E-07  542926.6 3753930.6   264.6     0.00     1.70     0.76     YES
L0047427         0   0.53910E-07  542923.0 3753930.6   264.6     0.00     1.70     0.76     YES
L0047428         0   0.53910E-07  542919.3 3753930.6   264.6     0.00     1.70     0.76     YES
L0047429         0   0.53910E-07  542915.7 3753930.6   264.6     0.00     1.70     0.76     YES
L0047430         0   0.53910E-07  542912.0 3753930.6   264.7     0.00     1.70     0.76     YES
L0047431         0   0.53910E-07  542908.4 3753930.6   264.7     0.00     1.70     0.76     YES
L0047432         0   0.53910E-07  542904.7 3753930.6   264.7     0.00     1.70     0.76     YES
L0047433         0   0.53910E-07  542901.0 3753930.5   264.7     0.00     1.70     0.76     YES
L0047434         0   0.53910E-07  542897.4 3753930.5   264.7     0.00     1.70     0.76     YES
L0047435         0   0.53910E-07  542893.7 3753930.5   264.7     0.00     1.70     0.76     YES
L0047436         0   0.53910E-07  542890.1 3753930.5   264.7     0.00     1.70     0.76     YES
L0047437         0   0.53910E-07  542886.4 3753930.5   264.8     0.00     1.70     0.76     YES
L0047438         0   0.53910E-07  542882.8 3753930.5   264.8     0.00     1.70     0.76     YES
L0047439         0   0.53910E-07  542879.1 3753930.5   264.8     0.00     1.70     0.76     YES
L0047440         0   0.53910E-07  542875.4 3753930.5   264.8     0.00     1.70     0.76     YES
L0047441         0   0.53910E-07  542871.8 3753930.5   264.9     0.00     1.70     0.76     YES
L0047442         0   0.53910E-07  542868.1 3753930.5   264.9     0.00     1.70     0.76     YES
L0047443         0   0.53910E-07  542864.5 3753930.5   264.9     0.00     1.70     0.76     YES
L0047444         0   0.53910E-07  542860.8 3753930.5   264.9     0.00     1.70     0.76     YES
L0047445         0   0.53910E-07  542857.2 3753930.4   264.9     0.00     1.70     0.76     YES
L0047446         0   0.53910E-07  542853.5 3753930.4   265.0     0.00     1.70     0.76     YES
L0047447         0   0.53910E-07  542849.8 3753930.4   265.0     0.00     1.70     0.76     YES
L0047448         0   0.53910E-07  542846.2 3753930.4   265.0     0.00     1.70     0.76     YES
L0047449         0   0.53910E-07  542842.5 3753930.4   265.0     0.00     1.70     0.76     YES
L0047450         0   0.53910E-07  542838.9 3753930.4   265.0     0.00     1.70     0.76     YES
L0047451         0   0.53910E-07  542835.2 3753930.4   265.1     0.00     1.70     0.76     YES
L0047452         0   0.53910E-07  542831.6 3753930.4   265.1     0.00     1.70     0.76     YES
L0047453         0   0.53910E-07  542827.9 3753930.4   265.1     0.00     1.70     0.76     YES
L0047454         0   0.53910E-07  542824.2 3753930.4   265.2     0.00     1.70     0.76     YES
L0047455         0   0.53910E-07  542820.6 3753930.4   265.2     0.00     1.70     0.76     YES
L0047456         0   0.53910E-07  542816.9 3753930.4   265.2     0.00     1.70     0.76     YES
L0047457         0   0.53910E-07  542813.3 3753930.3   265.2     0.00     1.70     0.76     YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY

L0047458	0	0.53910E-07	542809.6	3753930.3	265.3	0.00	1.70	0.76	YES
L0047459	0	0.53910E-07	542805.9	3753930.3	265.3	0.00	1.70	0.76	YES
L0047460	0	0.53910E-07	542802.3	3753930.3	265.3	0.00	1.70	0.76	YES
L0047461	0	0.53910E-07	542798.6	3753930.3	265.4	0.00	1.70	0.76	YES
L0047462	0	0.53910E-07	542795.0	3753930.3	265.4	0.00	1.70	0.76	YES
L0047463	0	0.53910E-07	542791.3	3753930.3	265.4	0.00	1.70	0.76	YES
L0047464	0	0.53910E-07	542787.7	3753930.3	265.4	0.00	1.70	0.76	YES
L0047465	0	0.53910E-07	542784.0	3753930.3	265.4	0.00	1.70	0.76	YES
L0047466	0	0.53910E-07	542780.3	3753930.3	265.5	0.00	1.70	0.76	YES
L0047467	0	0.53910E-07	542776.7	3753930.3	265.5	0.00	1.70	0.76	YES
L0047468	0	0.53910E-07	542773.0	3753930.3	265.5	0.00	1.70	0.76	YES
L0047469	0	0.53910E-07	542769.4	3753930.2	265.5	0.00	1.70	0.76	YES
L0047470	0	0.53910E-07	542765.7	3753930.2	265.6	0.00	1.70	0.76	YES
L0047471	0	0.53910E-07	542762.1	3753930.2	265.6	0.00	1.70	0.76	YES
L0047472	0	0.53910E-07	542758.4	3753930.2	265.6	0.00	1.70	0.76	YES
L0047473	0	0.53910E-07	542754.7	3753930.2	265.6	0.00	1.70	0.76	YES
L0047474	0	0.53910E-07	542751.1	3753930.2	265.7	0.00	1.70	0.76	YES
L0047475	0	0.53910E-07	542747.4	3753930.2	265.7	0.00	1.70	0.76	YES
L0047476	0	0.53910E-07	542743.8	3753930.2	265.7	0.00	1.70	0.76	YES
L0047477	0	0.53910E-07	542740.1	3753930.2	265.7	0.00	1.70	0.76	YES
L0047478	0	0.53910E-07	542736.5	3753930.2	265.8	0.00	1.70	0.76	YES
L0047479	0	0.53910E-07	542732.8	3753930.2	265.8	0.00	1.70	0.76	YES
L0047480	0	0.53910E-07	542729.1	3753930.1	265.8	0.00	1.70	0.76	YES
L0047481	0	0.53910E-07	542725.5	3753930.1	265.8	0.00	1.70	0.76	YES
L0047482	0	0.53910E-07	542721.8	3753930.1	265.9	0.00	1.70	0.76	YES
L0047483	0	0.53910E-07	542718.2	3753930.1	265.9	0.00	1.70	0.76	YES
L0047484	0	0.53910E-07	542714.5	3753930.1	265.9	0.00	1.70	0.76	YES
L0047485	0	0.53910E-07	542710.9	3753930.1	265.9	0.00	1.70	0.76	YES
L0047486	0	0.53910E-07	542707.2	3753930.1	266.0	0.00	1.70	0.76	YES
L0047487	0	0.53910E-07	542703.5	3753930.1	266.0	0.00	1.70	0.76	YES
L0047488	0	0.53910E-07	542699.9	3753930.1	266.0	0.00	1.70	0.76	YES
L0047489	0	0.53910E-07	542696.2	3753930.1	266.1	0.00	1.70	0.76	YES
L0047490	0	0.53910E-07	542692.6	3753930.1	266.1	0.00	1.70	0.76	YES
L0047491	0	0.53910E-07	542688.9	3753930.1	266.1	0.00	1.70	0.76	YES
L0047492	0	0.53910E-07	542685.2	3753930.0	266.1	0.00	1.70	0.76	YES
L0047493	0	0.53910E-07	542681.6	3753930.0	266.2	0.00	1.70	0.76	YES
L0047494	0	0.53910E-07	542677.9	3753930.0	266.2	0.00	1.70	0.76	YES
L0047495	0	0.53910E-07	542674.3	3753930.0	266.2	0.00	1.70	0.76	YES
L0047496	0	0.53910E-07	542670.6	3753930.0	266.2	0.00	1.70	0.76	YES
L0047497	0	0.53910E-07	542667.0	3753930.0	266.2	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE BASE RELEASE INIT. INIT. URBAN EMISSION RATE

SOURCE ID	PART. CATS.	(GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE	SCALAR VARY BY
L0047498	0	0.53910E-07	542663.3	3753930.0	266.2	0.00	1.70	0.76	YES	
L0047499	0	0.53910E-07	542659.6	3753930.0	266.3	0.00	1.70	0.76	YES	
L0047500	0	0.53910E-07	542656.0	3753930.0	266.3	0.00	1.70	0.76	YES	
L0047501	0	0.53910E-07	542652.3	3753930.0	266.3	0.00	1.70	0.76	YES	
L0047502	0	0.53910E-07	542648.7	3753930.0	266.4	0.00	1.70	0.76	YES	
L0047503	0	0.53910E-07	542645.0	3753930.0	266.4	0.00	1.70	0.76	YES	
L0047504	0	0.53910E-07	542641.4	3753929.9	266.4	0.00	1.70	0.76	YES	
L0047505	0	0.53910E-07	542637.7	3753929.9	266.4	0.00	1.70	0.76	YES	
L0047506	0	0.53910E-07	542634.0	3753929.9	266.5	0.00	1.70	0.76	YES	
L0047507	0	0.53910E-07	542630.4	3753929.9	266.5	0.00	1.70	0.76	YES	
L0047508	0	0.53910E-07	542626.7	3753929.9	266.5	0.00	1.70	0.76	YES	
L0047509	0	0.53910E-07	542623.1	3753929.9	266.5	0.00	1.70	0.76	YES	
L0047510	0	0.53910E-07	542619.4	3753929.9	266.5	0.00	1.70	0.76	YES	
L0047511	0	0.53910E-07	542615.8	3753929.9	266.6	0.00	1.70	0.76	YES	
L0047512	0	0.53910E-07	542612.1	3753929.9	266.6	0.00	1.70	0.76	YES	
L0047513	0	0.53910E-07	542608.4	3753929.9	266.6	0.00	1.70	0.76	YES	
L0047514	0	0.53910E-07	542604.8	3753929.9	266.6	0.00	1.70	0.76	YES	
L0047515	0	0.53910E-07	542601.1	3753929.9	266.6	0.00	1.70	0.76	YES	
L0047516	0	0.53910E-07	542597.5	3753929.8	266.6	0.00	1.70	0.76	YES	
L0047517	0	0.53910E-07	542593.8	3753929.8	266.7	0.00	1.70	0.76	YES	
L0047518	0	0.53910E-07	542590.2	3753929.8	266.7	0.00	1.70	0.76	YES	
L0047519	0	0.53910E-07	542586.5	3753929.8	266.7	0.00	1.70	0.76	YES	
L0047520	0	0.53910E-07	542582.8	3753929.8	266.7	0.00	1.70	0.76	YES	
L0047521	0	0.53910E-07	542579.2	3753929.8	266.7	0.00	1.70	0.76	YES	
L0047522	0	0.53910E-07	542575.5	3753929.8	266.8	0.00	1.70	0.76	YES	
L0047523	0	0.53910E-07	542571.9	3753929.8	266.8	0.00	1.70	0.76	YES	
L0047524	0	0.53910E-07	542568.2	3753929.8	266.8	0.00	1.70	0.76	YES	
L0047525	0	0.53910E-07	542564.5	3753929.8	266.8	0.00	1.70	0.76	YES	
L0047526	0	0.53910E-07	542560.9	3753929.8	266.9	0.00	1.70	0.76	YES	
L0047527	0	0.53910E-07	542557.2	3753929.8	266.9	0.00	1.70	0.76	YES	
L0047528	0	0.53910E-07	542553.6	3753929.7	266.9	0.00	1.70	0.76	YES	
L0047529	0	0.53910E-07	542549.9	3753929.7	266.9	0.00	1.70	0.76	YES	
L0047530	0	0.53910E-07	542546.3	3753929.7	266.9	0.00	1.70	0.76	YES	
L0047531	0	0.53910E-07	542542.6	3753929.7	266.9	0.00	1.70	0.76	YES	
L0047532	0	0.53910E-07	542538.9	3753929.7	266.9	0.00	1.70	0.76	YES	
L0047533	0	0.53910E-07	542535.3	3753929.7	267.0	0.00	1.70	0.76	YES	
L0047534	0	0.53910E-07	542531.6	3753929.7	267.0	0.00	1.70	0.76	YES	
L0047535	0	0.53910E-07	542528.0	3753929.7	267.0	0.00	1.70	0.76	YES	
L0047536	0	0.53910E-07	542524.3	3753929.7	267.0	0.00	1.70	0.76	YES	
L0047537	0	0.53910E-07	542520.7	3753929.7	267.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047538	0	0.53910E-07	542517.0	3753929.7	267.0	0.00	1.70	0.76	YES	
L0047539	0	0.53910E-07	542513.3	3753929.7	267.1	0.00	1.70	0.76	YES	
L0047540	0	0.53910E-07	542509.7	3753929.6	267.1	0.00	1.70	0.76	YES	
L0047541	0	0.53910E-07	542506.0	3753929.6	267.1	0.00	1.70	0.76	YES	
L0047542	0	0.53910E-07	542502.4	3753929.6	267.1	0.00	1.70	0.76	YES	
L0047543	0	0.53910E-07	542498.7	3753929.6	267.1	0.00	1.70	0.76	YES	
L0047544	0	0.53910E-07	542495.1	3753929.6	267.1	0.00	1.70	0.76	YES	
L0047545	0	0.53910E-07	542491.4	3753929.6	267.2	0.00	1.70	0.76	YES	
L0047546	0	0.53910E-07	542487.7	3753929.6	267.2	0.00	1.70	0.76	YES	
L0047547	0	0.53910E-07	542484.1	3753929.6	267.2	0.00	1.70	0.76	YES	
L0047548	0	0.53910E-07	542480.4	3753929.6	267.2	0.00	1.70	0.76	YES	
L0047549	0	0.53910E-07	542476.8	3753929.6	267.2	0.00	1.70	0.76	YES	
L0047550	0	0.53910E-07	542473.1	3753929.6	267.2	0.00	1.70	0.76	YES	
L0047551	0	0.53910E-07	542469.5	3753929.5	267.3	0.00	1.70	0.76	YES	
L0047552	0	0.53910E-07	542465.8	3753929.5	267.3	0.00	1.70	0.76	YES	
L0047553	0	0.53910E-07	542462.1	3753929.5	267.3	0.00	1.70	0.76	YES	
L0047554	0	0.53910E-07	542458.5	3753929.5	267.3	0.00	1.70	0.76	YES	
L0047555	0	0.53910E-07	542454.8	3753929.5	267.3	0.00	1.70	0.76	YES	
L0047556	0	0.53910E-07	542451.2	3753929.5	267.4	0.00	1.70	0.76	YES	
L0047557	0	0.53910E-07	542447.5	3753929.5	267.4	0.00	1.70	0.76	YES	
L0047558	0	0.53910E-07	542443.8	3753929.5	267.4	0.00	1.70	0.76	YES	
L0047559	0	0.53910E-07	542440.2	3753929.5	267.4	0.00	1.70	0.76	YES	
L0047560	0	0.53910E-07	542436.5	3753929.5	267.4	0.00	1.70	0.76	YES	
L0047561	0	0.53910E-07	542432.9	3753929.5	267.4	0.00	1.70	0.76	YES	
L0047562	0	0.53910E-07	542429.2	3753929.5	267.5	0.00	1.70	0.76	YES	
L0047563	0	0.53910E-07	542425.6	3753929.4	267.5	0.00	1.70	0.76	YES	
L0047564	0	0.53910E-07	542421.9	3753929.4	267.5	0.00	1.70	0.76	YES	
L0047565	0	0.53910E-07	542418.2	3753929.4	267.5	0.00	1.70	0.76	YES	
L0047566	0	0.53910E-07	542414.6	3753929.4	267.5	0.00	1.70	0.76	YES	
L0047567	0	0.53910E-07	542410.9	3753929.4	267.5	0.00	1.70	0.76	YES	
L0047568	0	0.53910E-07	542407.3	3753929.4	267.6	0.00	1.70	0.76	YES	
L0047569	0	0.53910E-07	542403.6	3753929.4	267.6	0.00	1.70	0.76	YES	
L0047570	0	0.53910E-07	542400.0	3753929.4	267.6	0.00	1.70	0.76	YES	
L0047571	0	0.53910E-07	542396.3	3753929.4	267.6	0.00	1.70	0.76	YES	
L0047572	0	0.53910E-07	542392.6	3753929.4	267.6	0.00	1.70	0.76	YES	
L0047573	0	0.53910E-07	542389.0	3753929.4	267.7	0.00	1.70	0.76	YES	
L0047574	0	0.53910E-07	542385.3	3753929.4	267.7	0.00	1.70	0.76	YES	
L0047575	0	0.53910E-07	542381.7	3753929.3	267.7	0.00	1.70	0.76	YES	
L0047576	0	0.53910E-07	542378.0	3753929.3	267.7	0.00	1.70	0.76	YES	
L0047577	0	0.53910E-07	542374.4	3753929.3	267.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047578	0	0.53910E-07	542370.7	3753929.3	267.8	0.00	1.70	0.76	YES	
L0047579	0	0.53910E-07	542367.0	3753929.3	267.8	0.00	1.70	0.76	YES	
L0047580	0	0.53910E-07	542363.4	3753929.3	267.8	0.00	1.70	0.76	YES	
L0047581	0	0.53910E-07	542359.7	3753929.3	267.8	0.00	1.70	0.76	YES	
L0047582	0	0.53910E-07	542356.1	3753929.3	267.8	0.00	1.70	0.76	YES	
L0047583	0	0.53910E-07	542352.4	3753929.3	267.9	0.00	1.70	0.76	YES	
L0047584	0	0.53910E-07	542348.7	3753929.3	267.9	0.00	1.70	0.76	YES	
L0047585	0	0.53910E-07	542345.1	3753929.3	267.9	0.00	1.70	0.76	YES	
L0047586	0	0.53910E-07	542341.4	3753929.3	267.9	0.00	1.70	0.76	YES	
L0047587	0	0.53910E-07	542337.8	3753929.2	267.9	0.00	1.70	0.76	YES	
L0047588	0	0.53910E-07	542334.1	3753929.2	267.9	0.00	1.70	0.76	YES	
L0047589	0	0.53910E-07	542330.5	3753929.2	268.0	0.00	1.70	0.76	YES	
L0047590	0	0.53910E-07	542326.8	3753929.2	268.0	0.00	1.70	0.76	YES	
L0047591	0	0.53910E-07	542323.1	3753929.2	268.0	0.00	1.70	0.76	YES	
L0047592	0	0.53910E-07	542319.5	3753929.2	268.0	0.00	1.70	0.76	YES	
L0047593	0	0.53910E-07	542315.8	3753929.2	268.1	0.00	1.70	0.76	YES	
L0047594	0	0.53910E-07	542312.2	3753929.2	268.1	0.00	1.70	0.76	YES	
L0047595	0	0.53910E-07	542308.5	3753929.2	268.1	0.00	1.70	0.76	YES	
L0047596	0	0.53910E-07	542304.9	3753929.2	268.1	0.00	1.70	0.76	YES	
L0047597	0	0.53910E-07	542301.2	3753929.2	268.1	0.00	1.70	0.76	YES	
L0047598	0	0.53910E-07	542297.5	3753929.2	268.1	0.00	1.70	0.76	YES	
L0047599	0	0.53910E-07	542293.9	3753929.1	268.2	0.00	1.70	0.76	YES	
L0047600	0	0.53910E-07	542290.2	3753929.1	268.2	0.00	1.70	0.76	YES	
L0047601	0	0.53910E-07	542286.6	3753929.1	268.2	0.00	1.70	0.76	YES	
L0047602	0	0.53910E-07	542282.9	3753929.1	268.2	0.00	1.70	0.76	YES	
L0047603	0	0.53910E-07	542279.3	3753929.1	268.2	0.00	1.70	0.76	YES	
L0047604	0	0.53910E-07	542275.6	3753929.1	268.2	0.00	1.70	0.76	YES	
L0047605	0	0.53910E-07	542271.9	3753929.1	268.3	0.00	1.70	0.76	YES	
L0047606	0	0.53910E-07	542268.3	3753929.1	268.3	0.00	1.70	0.76	YES	
L0047607	0	0.53910E-07	542264.6	3753929.1	268.3	0.00	1.70	0.76	YES	
L0047608	0	0.53910E-07	542261.0	3753929.1	268.3	0.00	1.70	0.76	YES	
L0047609	0	0.53910E-07	542257.3	3753929.1	268.4	0.00	1.70	0.76	YES	
L0047610	0	0.53910E-07	542253.7	3753929.1	268.4	0.00	1.70	0.76	YES	
L0047611	0	0.53910E-07	542250.0	3753929.0	268.4	0.00	1.70	0.76	YES	
L0047612	0	0.53910E-07	542246.3	3753929.0	268.4	0.00	1.70	0.76	YES	
L0047613	0	0.53910E-07	542242.7	3753929.0	268.4	0.00	1.70	0.76	YES	
L0047614	0	0.53910E-07	542239.0	3753929.0	268.5	0.00	1.70	0.76	YES	
L0047615	0	0.53910E-07	542235.4	3753929.0	268.5	0.00	1.70	0.76	YES	
L0047616	0	0.53910E-07	542231.7	3753929.0	268.5	0.00	1.70	0.76	YES	
L0047617	0	0.53910E-07	542228.0	3753929.0	268.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047618	0	0.53910E-07	542224.4	3753929.0	268.6	0.00	1.70	0.76	YES	
L0047619	0	0.53910E-07	542220.7	3753929.0	268.6	0.00	1.70	0.76	YES	
L0047620	0	0.53910E-07	542217.1	3753929.0	268.6	0.00	1.70	0.76	YES	
L0047621	0	0.53910E-07	542213.4	3753929.0	268.6	0.00	1.70	0.76	YES	
L0047622	0	0.53910E-07	542209.8	3753928.9	268.6	0.00	1.70	0.76	YES	
L0047623	0	0.53910E-07	542206.1	3753928.9	268.6	0.00	1.70	0.76	YES	
L0047624	0	0.53910E-07	542202.4	3753928.9	268.6	0.00	1.70	0.76	YES	
L0047625	0	0.53910E-07	542198.8	3753928.9	268.6	0.00	1.70	0.76	YES	
L0047626	0	0.53910E-07	542195.1	3753928.9	268.7	0.00	1.70	0.76	YES	
L0047627	0	0.53910E-07	542191.5	3753928.9	268.7	0.00	1.70	0.76	YES	
L0047628	0	0.53910E-07	542187.8	3753928.9	268.7	0.00	1.70	0.76	YES	
L0047629	0	0.53910E-07	542184.2	3753928.9	268.7	0.00	1.70	0.76	YES	
L0047630	0	0.53910E-07	542180.5	3753928.9	268.7	0.00	1.70	0.76	YES	
L0047631	0	0.53910E-07	542176.8	3753928.9	268.7	0.00	1.70	0.76	YES	
L0047632	0	0.53910E-07	542173.2	3753928.9	268.7	0.00	1.70	0.76	YES	
L0047633	0	0.53910E-07	542169.5	3753928.9	268.7	0.00	1.70	0.76	YES	
L0047634	0	0.53910E-07	542165.9	3753928.8	268.7	0.00	1.70	0.76	YES	
L0047635	0	0.53910E-07	542162.2	3753928.8	268.7	0.00	1.70	0.76	YES	
L0047636	0	0.53910E-07	542158.6	3753928.8	268.7	0.00	1.70	0.76	YES	
L0047637	0	0.53910E-07	542154.9	3753928.8	268.8	0.00	1.70	0.76	YES	
L0047638	0	0.53910E-07	542151.2	3753928.8	268.8	0.00	1.70	0.76	YES	
L0047639	0	0.53910E-07	542147.6	3753928.8	268.8	0.00	1.70	0.76	YES	
L0047640	0	0.53910E-07	542143.9	3753928.8	268.8	0.00	1.70	0.76	YES	
L0047641	0	0.53910E-07	542140.3	3753928.8	268.8	0.00	1.70	0.76	YES	
L0047642	0	0.53910E-07	542136.6	3753928.8	268.8	0.00	1.70	0.76	YES	
L0047643	0	0.53910E-07	542133.0	3753928.8	268.8	0.00	1.70	0.76	YES	
L0047644	0	0.53910E-07	542129.3	3753928.8	268.8	0.00	1.70	0.76	YES	
L0047645	0	0.53910E-07	542125.6	3753928.8	268.8	0.00	1.70	0.76	YES	
L0047646	0	0.53910E-07	542122.0	3753928.7	268.8	0.00	1.70	0.76	YES	
L0047647	0	0.53910E-07	542118.3	3753928.7	268.9	0.00	1.70	0.76	YES	
L0047648	0	0.53910E-07	542114.7	3753928.7	268.9	0.00	1.70	0.76	YES	
L0047649	0	0.53910E-07	542111.0	3753928.7	268.9	0.00	1.70	0.76	YES	
L0047650	0	0.53910E-07	542107.3	3753928.7	268.9	0.00	1.70	0.76	YES	
L0047651	0	0.53910E-07	542103.7	3753928.7	268.9	0.00	1.70	0.76	YES	
L0047652	0	0.53910E-07	542100.0	3753928.7	268.9	0.00	1.70	0.76	YES	
L0047653	0	0.53910E-07	542096.4	3753928.7	268.9	0.00	1.70	0.76	YES	
L0047654	0	0.53910E-07	542092.7	3753928.7	269.0	0.00	1.70	0.76	YES	
L0047655	0	0.53910E-07	542089.1	3753928.7	269.0	0.00	1.70	0.76	YES	

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L0047656         0   0.53910E-07  542085.4 3753928.7   269.0     0.00     1.70     0.76     YES
L0047657         0   0.53910E-07  542081.7 3753928.7   269.0     0.00     1.70     0.76     YES

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 1st 14 yr                      ***        05/24/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 1st 14 yr                             ***        20:34:00
                                                                                                                  PAGE  42
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

             NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.   URBAN  EMISSION RATE
  SOURCE      PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ     SOURCE  SCALAR VARY
    ID        CATS.               (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)             BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

L0047658         0   0.53910E-07  542078.1 3753928.6   269.1     0.00     1.70     0.76     YES
L0047659         0   0.53910E-07  542074.4 3753928.6   269.1     0.00     1.70     0.76     YES
L0047660         0   0.53910E-07  542070.8 3753928.6   269.1     0.00     1.70     0.76     YES
L0047661         0   0.53910E-07  542067.1 3753928.6   269.1     0.00     1.70     0.76     YES
L0047662         0   0.53910E-07  542063.5 3753928.6   269.2     0.00     1.70     0.76     YES
L0047663         0   0.53910E-07  542059.8 3753928.6   269.2     0.00     1.70     0.76     YES
L0047664         0   0.53910E-07  542056.1 3753928.6   269.2     0.00     1.70     0.76     YES
L0047665         0   0.53910E-07  542052.5 3753928.6   269.3     0.00     1.70     0.76     YES
L0047666         0   0.53910E-07  542048.8 3753928.6   269.3     0.00     1.70     0.76     YES
L0047667         0   0.53910E-07  542045.2 3753928.6   269.3     0.00     1.70     0.76     YES
L0047668         0   0.53910E-07  542041.5 3753928.6   269.4     0.00     1.70     0.76     YES
L0047669         0   0.53910E-07  542037.9 3753928.6   269.4     0.00     1.70     0.76     YES
L0047670         0   0.42820E-07  542037.5 3753923.3   269.3     0.00     1.70     0.76     YES
L0047671         0   0.42820E-07  542037.4 3753919.7   269.2     0.00     1.70     0.76     YES
L0047672         0   0.42820E-07  542037.4 3753916.0   269.1     0.00     1.70     0.76     YES
L0047673         0   0.42820E-07  542037.4 3753912.4   269.0     0.00     1.70     0.76     YES
L0047674         0   0.42820E-07  542037.3 3753908.7   268.9     0.00     1.70     0.76     YES
L0047675         0   0.42820E-07  542037.3 3753905.0   268.8     0.00     1.70     0.76     YES
L0047676         0   0.42820E-07  542037.3 3753901.4   268.7     0.00     1.70     0.76     YES
L0047677         0   0.42820E-07  542037.2 3753897.7   268.6     0.00     1.70     0.76     YES
L0047678         0   0.42820E-07  542037.2 3753894.1   268.6     0.00     1.70     0.76     YES
L0047679         0   0.42820E-07  542037.2 3753890.4   268.5     0.00     1.70     0.76     YES
L0047680         0   0.42820E-07  542037.1 3753886.8   268.4     0.00     1.70     0.76     YES
L0047681         0   0.42820E-07  542037.1 3753883.1   268.3     0.00     1.70     0.76     YES
L0047682         0   0.42820E-07  542037.1 3753879.4   268.2     0.00     1.70     0.76     YES
L0047683         0   0.42820E-07  542037.0 3753875.8   268.1     0.00     1.70     0.76     YES
L0047684         0   0.42820E-07  542037.0 3753872.1   268.0     0.00     1.70     0.76     YES
L0047685         0   0.42820E-07  542037.0 3753868.5   267.9     0.00     1.70     0.76     YES
L0047686         0   0.42820E-07  542036.9 3753864.8   267.8     0.00     1.70     0.76     YES
L0047687         0   0.42820E-07  542036.9 3753861.2   267.7     0.00     1.70     0.76     YES
L0047688         0   0.42820E-07  542036.9 3753857.5   267.6     0.00     1.70     0.76     YES
L0047689         0   0.42820E-07  542036.8 3753853.8   267.5     0.00     1.70     0.76     YES
L0047690         0   0.42820E-07  542036.8 3753850.2   267.4     0.00     1.70     0.76     YES
L0047691         0   0.42820E-07  542036.8 3753846.5   267.3     0.00     1.70     0.76     YES
L0047692         0   0.42820E-07  542036.7 3753842.9   267.2     0.00     1.70     0.76     YES
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L0047693	0	0.42820E-07	542036.7	3753839.2	267.1	0.00	1.70	0.76	YES	
L0047694	0	0.42820E-07	542036.7	3753835.6	267.0	0.00	1.70	0.76	YES	
L0047695	0	0.42820E-07	542036.6	3753831.9	266.9	0.00	1.70	0.76	YES	
L0047696	0	0.42820E-07	542036.6	3753828.2	266.8	0.00	1.70	0.76	YES	
L0047697	0	0.42820E-07	542036.6	3753824.6	266.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047698	0	0.42820E-07	542036.6	3753820.9	266.6	0.00	1.70	0.76	YES	
L0047699	0	0.42820E-07	542036.5	3753817.3	266.5	0.00	1.70	0.76	YES	
L0047700	0	0.42820E-07	542036.5	3753813.6	266.4	0.00	1.70	0.76	YES	
L0047701	0	0.42820E-07	542036.5	3753809.9	266.3	0.00	1.70	0.76	YES	
L0047702	0	0.42820E-07	542036.4	3753806.3	266.2	0.00	1.70	0.76	YES	
L0047703	0	0.42820E-07	542036.4	3753802.6	266.1	0.00	1.70	0.76	YES	
L0047704	0	0.42820E-07	542036.4	3753799.0	266.0	0.00	1.70	0.76	YES	
L0047705	0	0.42820E-07	542036.3	3753795.3	265.9	0.00	1.70	0.76	YES	
L0047706	0	0.42820E-07	542036.3	3753791.7	265.8	0.00	1.70	0.76	YES	
L0047707	0	0.42820E-07	542036.3	3753788.0	265.7	0.00	1.70	0.76	YES	
L0047708	0	0.42820E-07	542036.2	3753784.3	265.6	0.00	1.70	0.76	YES	
L0047709	0	0.42820E-07	542036.2	3753780.7	265.5	0.00	1.70	0.76	YES	
L0047710	0	0.42820E-07	542036.2	3753777.0	265.4	0.00	1.70	0.76	YES	
L0047711	0	0.42820E-07	542036.1	3753773.4	265.4	0.00	1.70	0.76	YES	
L0047712	0	0.42820E-07	542036.1	3753769.7	265.3	0.00	1.70	0.76	YES	
L0047713	0	0.42820E-07	542036.1	3753766.1	265.2	0.00	1.70	0.76	YES	
L0047714	0	0.42820E-07	542036.0	3753762.4	265.1	0.00	1.70	0.76	YES	
L0047715	0	0.42820E-07	542036.0	3753758.7	265.0	0.00	1.70	0.76	YES	
L0047716	0	0.42820E-07	542036.0	3753755.1	264.9	0.00	1.70	0.76	YES	
L0047717	0	0.42820E-07	542035.9	3753751.4	264.8	0.00	1.70	0.76	YES	
L0047718	0	0.42820E-07	542035.9	3753747.8	264.7	0.00	1.70	0.76	YES	
L0047719	0	0.42820E-07	542035.9	3753744.1	264.6	0.00	1.70	0.76	YES	
L0047720	0	0.42820E-07	542035.8	3753740.5	264.6	0.00	1.70	0.76	YES	
L0047721	0	0.42820E-07	542035.8	3753736.8	264.5	0.00	1.70	0.76	YES	
L0047722	0	0.42820E-07	542035.8	3753733.1	264.4	0.00	1.70	0.76	YES	
L0047723	0	0.42820E-07	542035.7	3753729.5	264.3	0.00	1.70	0.76	YES	
L0047724	0	0.42820E-07	542035.7	3753725.8	264.2	0.00	1.70	0.76	YES	
L0047725	0	0.42820E-07	542035.7	3753722.2	264.1	0.00	1.70	0.76	YES	
L0047726	0	0.42820E-07	542035.7	3753718.5	264.0	0.00	1.70	0.76	YES	
L0047727	0	0.42820E-07	542035.6	3753714.9	263.9	0.00	1.70	0.76	YES	
L0047728	0	0.42820E-07	542035.6	3753711.2	263.8	0.00	1.70	0.76	YES	
L0047729	0	0.42820E-07	542035.6	3753707.5	263.7	0.00	1.70	0.76	YES	

L0047730	0	0.42820E-07	542035.5	3753703.9	263.6	0.00	1.70	0.76	YES
L0047731	0	0.42820E-07	542035.5	3753700.2	263.6	0.00	1.70	0.76	YES
L0047732	0	0.42820E-07	542035.5	3753696.6	263.5	0.00	1.70	0.76	YES
L0047733	0	0.42820E-07	542035.4	3753692.9	263.4	0.00	1.70	0.76	YES
L0047734	0	0.42820E-07	542035.4	3753689.3	263.3	0.00	1.70	0.76	YES
L0047735	0	0.42820E-07	542035.4	3753685.6	263.2	0.00	1.70	0.76	YES
L0047736	0	0.42820E-07	542035.3	3753681.9	263.1	0.00	1.70	0.76	YES
L0047737	0	0.42820E-07	542035.3	3753678.3	263.0	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047738	0	0.42820E-07	542035.3	3753674.6	262.9	0.00	1.70	0.76	YES	
L0047739	0	0.42820E-07	542035.2	3753671.0	262.9	0.00	1.70	0.76	YES	
L0047740	0	0.42820E-07	542035.2	3753667.3	262.8	0.00	1.70	0.76	YES	
L0047741	0	0.42820E-07	542035.2	3753663.7	262.7	0.00	1.70	0.76	YES	
L0047742	0	0.42820E-07	542035.1	3753660.0	262.6	0.00	1.70	0.76	YES	
L0047743	0	0.42820E-07	542035.1	3753656.3	262.5	0.00	1.70	0.76	YES	
L0047744	0	0.42820E-07	542035.1	3753652.7	262.5	0.00	1.70	0.76	YES	
L0047745	0	0.42820E-07	542035.0	3753649.0	262.4	0.00	1.70	0.76	YES	
L0047746	0	0.42820E-07	542035.0	3753645.4	262.3	0.00	1.70	0.76	YES	
L0047747	0	0.42820E-07	542035.0	3753641.7	262.2	0.00	1.70	0.76	YES	
L0047748	0	0.42820E-07	542034.9	3753638.0	262.2	0.00	1.70	0.76	YES	
L0047749	0	0.42820E-07	542034.9	3753634.4	262.1	0.00	1.70	0.76	YES	
L0047750	0	0.42820E-07	542034.9	3753630.7	262.0	0.00	1.70	0.76	YES	
L0047751	0	0.42820E-07	542034.9	3753627.1	261.9	0.00	1.70	0.76	YES	
L0047752	0	0.42820E-07	542034.8	3753623.4	261.9	0.00	1.70	0.76	YES	
L0047753	0	0.42820E-07	542034.8	3753619.8	261.8	0.00	1.70	0.76	YES	
L0047754	0	0.42820E-07	542034.8	3753616.1	261.7	0.00	1.70	0.76	YES	
L0047755	0	0.42820E-07	542034.7	3753612.4	261.6	0.00	1.70	0.76	YES	
L0047756	0	0.42820E-07	542034.7	3753608.8	261.6	0.00	1.70	0.76	YES	
L0047757	0	0.42820E-07	542034.7	3753605.1	261.5	0.00	1.70	0.76	YES	
L0047758	0	0.42820E-07	542034.6	3753601.5	261.4	0.00	1.70	0.76	YES	
L0047759	0	0.42820E-07	542034.6	3753597.8	261.3	0.00	1.70	0.76	YES	
L0047760	0	0.42820E-07	542034.6	3753594.2	261.2	0.00	1.70	0.76	YES	
L0047761	0	0.42820E-07	542034.5	3753590.5	261.2	0.00	1.70	0.76	YES	
L0047762	0	0.42820E-07	542034.5	3753586.8	261.1	0.00	1.70	0.76	YES	
L0047763	0	0.42820E-07	542034.5	3753583.2	261.0	0.00	1.70	0.76	YES	
L0047764	0	0.42820E-07	542034.4	3753579.5	260.9	0.00	1.70	0.76	YES	
L0047765	0	0.42820E-07	542034.4	3753575.9	260.8	0.00	1.70	0.76	YES	
L0047766	0	0.42820E-07	542034.4	3753572.2	260.8	0.00	1.70	0.76	YES	

L0047767	0	0.42820E-07	542034.3	3753568.6	260.7	0.00	1.70	0.76	YES
L0047768	0	0.42820E-07	542034.3	3753564.9	260.6	0.00	1.70	0.76	YES
L0047769	0	0.42820E-07	542034.3	3753561.2	260.5	0.00	1.70	0.76	YES
L0047770	0	0.42820E-07	542034.2	3753557.6	260.4	0.00	1.70	0.76	YES
L0047771	0	0.42820E-07	542034.2	3753553.9	260.4	0.00	1.70	0.76	YES
L0047772	0	0.42820E-07	542034.2	3753550.3	260.3	0.00	1.70	0.76	YES
L0047773	0	0.42820E-07	542034.1	3753546.6	260.2	0.00	1.70	0.76	YES
L0047774	0	0.42820E-07	542034.1	3753543.0	260.1	0.00	1.70	0.76	YES
L0047775	0	0.42820E-07	542034.1	3753539.3	260.1	0.00	1.70	0.76	YES
L0047776	0	0.42820E-07	542034.0	3753535.6	260.0	0.00	1.70	0.76	YES
L0047777	0	0.42820E-07	542034.0	3753532.0	259.9	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047778	0	0.42820E-07	542034.0	3753528.3	259.8	0.00	1.70	0.76	YES	
L0047779	0	0.42820E-07	542034.0	3753524.7	259.7	0.00	1.70	0.76	YES	
L0047780	0	0.42820E-07	542033.9	3753521.0	259.6	0.00	1.70	0.76	YES	
L0047781	0	0.42820E-07	542033.9	3753517.4	259.6	0.00	1.70	0.76	YES	
L0047782	0	0.42820E-07	542033.9	3753513.7	259.5	0.00	1.70	0.76	YES	
L0047783	0	0.42820E-07	542033.8	3753510.0	259.4	0.00	1.70	0.76	YES	
L0047784	0	0.42820E-07	542033.8	3753506.4	259.3	0.00	1.70	0.76	YES	
L0047785	0	0.42820E-07	542033.8	3753502.7	259.2	0.00	1.70	0.76	YES	
L0047786	0	0.42820E-07	542033.7	3753499.1	259.2	0.00	1.70	0.76	YES	
L0047787	0	0.42820E-07	542033.7	3753495.4	259.1	0.00	1.70	0.76	YES	
L0047788	0	0.42820E-07	542033.7	3753491.8	259.0	0.00	1.70	0.76	YES	
L0047789	0	0.42820E-07	542033.6	3753488.1	258.9	0.00	1.70	0.76	YES	
L0047790	0	0.42820E-07	542033.6	3753484.4	258.8	0.00	1.70	0.76	YES	
L0047791	0	0.42820E-07	542033.6	3753480.8	258.8	0.00	1.70	0.76	YES	
L0047792	0	0.42820E-07	542033.5	3753477.1	258.7	0.00	1.70	0.76	YES	
L0047793	0	0.42820E-07	542033.5	3753473.5	258.6	0.00	1.70	0.76	YES	
L0047794	0	0.42820E-07	542033.5	3753469.8	258.5	0.00	1.70	0.76	YES	
L0047795	0	0.42820E-07	542033.4	3753466.1	258.4	0.00	1.70	0.76	YES	
L0047796	0	0.42820E-07	542033.4	3753462.5	258.3	0.00	1.70	0.76	YES	
L0047797	0	0.42820E-07	542033.4	3753458.8	258.2	0.00	1.70	0.76	YES	
L0047798	0	0.42820E-07	542033.3	3753455.2	258.2	0.00	1.70	0.76	YES	
L0047799	0	0.42820E-07	542033.3	3753451.5	258.1	0.00	1.70	0.76	YES	
L0047800	0	0.42820E-07	542033.3	3753447.9	258.0	0.00	1.70	0.76	YES	
L0047801	0	0.42820E-07	542033.2	3753444.2	257.9	0.00	1.70	0.76	YES	
L0047802	0	0.42820E-07	542033.2	3753440.5	257.8	0.00	1.70	0.76	YES	
L0047803	0	0.42820E-07	542033.2	3753436.9	257.7	0.00	1.70	0.76	YES	

L0047804	0	0.42820E-07	542033.1	3753433.2	257.6	0.00	1.70	0.76	YES
L0047805	0	0.42820E-07	542033.1	3753429.6	257.5	0.00	1.70	0.76	YES
L0047806	0	0.42820E-07	542033.1	3753425.9	257.4	0.00	1.70	0.76	YES
L0047807	0	0.42820E-07	542033.1	3753422.3	257.4	0.00	1.70	0.76	YES
L0047808	0	0.42820E-07	542033.0	3753418.6	257.3	0.00	1.70	0.76	YES
L0047809	0	0.42820E-07	542033.0	3753414.9	257.2	0.00	1.70	0.76	YES
L0047810	0	0.42820E-07	542033.0	3753411.3	257.1	0.00	1.70	0.76	YES
L0047811	0	0.42820E-07	542032.9	3753407.6	257.0	0.00	1.70	0.76	YES
L0047812	0	0.42820E-07	542032.9	3753404.0	256.9	0.00	1.70	0.76	YES
L0047813	0	0.42820E-07	542032.9	3753400.3	256.8	0.00	1.70	0.76	YES
L0047814	0	0.42820E-07	542032.8	3753396.7	256.7	0.00	1.70	0.76	YES
L0047815	0	0.42820E-07	542032.8	3753393.0	256.6	0.00	1.70	0.76	YES
L0047816	0	0.42820E-07	542032.8	3753389.3	256.5	0.00	1.70	0.76	YES
L0047817	0	0.42820E-07	542032.7	3753385.7	256.5	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047818	0	0.42820E-07	542032.7	3753382.0	256.4	0.00	1.70	0.76	YES	
L0047819	0	0.42820E-07	542032.7	3753378.4	256.3	0.00	1.70	0.76	YES	
L0047820	0	0.42820E-07	542032.6	3753374.7	256.2	0.00	1.70	0.76	YES	
L0047821	0	0.42820E-07	542032.6	3753371.1	256.1	0.00	1.70	0.76	YES	
L0047822	0	0.42820E-07	542032.6	3753367.4	256.1	0.00	1.70	0.76	YES	
L0047823	0	0.42820E-07	542032.5	3753363.7	256.0	0.00	1.70	0.76	YES	
L0047824	0	0.42820E-07	542032.5	3753360.1	255.9	0.00	1.70	0.76	YES	
L0047825	0	0.42820E-07	542032.5	3753356.4	255.8	0.00	1.70	0.76	YES	
L0047826	0	0.42820E-07	542032.4	3753352.8	255.7	0.00	1.70	0.76	YES	
L0047827	0	0.42820E-07	542032.4	3753349.1	255.6	0.00	1.70	0.76	YES	
L0047828	0	0.42820E-07	542032.4	3753345.5	255.5	0.00	1.70	0.76	YES	
L0047829	0	0.42820E-07	542032.3	3753341.8	255.4	0.00	1.70	0.76	YES	
L0047830	0	0.42820E-07	542032.3	3753338.1	255.3	0.00	1.70	0.76	YES	
L0047831	0	0.42820E-07	542032.3	3753334.5	255.2	0.00	1.70	0.76	YES	
L0047832	0	0.42820E-07	542032.2	3753330.8	255.1	0.00	1.70	0.76	YES	
L0047833	0	0.42820E-07	542032.2	3753327.2	255.0	0.00	1.70	0.76	YES	
L0047834	0	0.42820E-07	542032.2	3753323.5	254.9	0.00	1.70	0.76	YES	
L0047835	0	0.42820E-07	542032.2	3753319.8	254.8	0.00	1.70	0.76	YES	
L0047836	0	0.42820E-07	542032.1	3753316.2	254.7	0.00	1.70	0.76	YES	
L0047837	0	0.42820E-07	542032.1	3753312.5	254.6	0.00	1.70	0.76	YES	
L0047838	0	0.42820E-07	542032.1	3753308.9	254.5	0.00	1.70	0.76	YES	
L0047839	0	0.42820E-07	542032.0	3753305.2	254.4	0.00	1.70	0.76	YES	
L0047840	0	0.42820E-07	542032.0	3753301.6	254.2	0.00	1.70	0.76	YES	

L0047841	0	0.42820E-07	542032.0	3753297.9	254.2	0.00	1.70	0.76	YES	
L0047842	0	0.42820E-07	542031.9	3753294.2	254.1	0.00	1.70	0.76	YES	
L0047843	0	0.42820E-07	542031.9	3753290.6	254.0	0.00	1.70	0.76	YES	
L0047844	0	0.42820E-07	542031.9	3753286.9	253.9	0.00	1.70	0.76	YES	
L0047845	0	0.42820E-07	542031.8	3753283.3	253.8	0.00	1.70	0.76	YES	
L0047846	0	0.42820E-07	542031.8	3753279.6	253.7	0.00	1.70	0.76	YES	
L0047847	0	0.42820E-07	542031.8	3753276.0	253.6	0.00	1.70	0.76	YES	
L0047848	0	0.42820E-07	542031.7	3753272.3	253.5	0.00	1.70	0.76	YES	
L0047849	0	0.42820E-07	542031.7	3753268.6	253.5	0.00	1.70	0.76	YES	
L0047850	0	0.42820E-07	542031.7	3753265.0	253.4	0.00	1.70	0.76	YES	
L0047851	0	0.42820E-07	542031.6	3753261.3	253.3	0.00	1.70	0.76	YES	
L0047852	0	0.42820E-07	542031.6	3753257.7	253.2	0.00	1.70	0.76	YES	
L0047853	0	0.42820E-07	542031.6	3753254.0	253.1	0.00	1.70	0.76	YES	
L0047854	0	0.42820E-07	542031.5	3753250.4	253.1	0.00	1.70	0.76	YES	
L0047855	0	0.42820E-07	542031.5	3753246.7	253.0	0.00	1.70	0.76	YES	
L0047856	0	0.42820E-07	542031.5	3753243.0	252.9	0.00	1.70	0.76	YES	
L0047857	0	0.42820E-07	542031.4	3753239.4	252.8	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047858	0	0.42820E-07	542031.4	3753235.7	252.7	0.00	1.70	0.76	YES	
L0047859	0	0.42820E-07	542031.4	3753232.1	252.7	0.00	1.70	0.76	YES	
L0047860	0	0.42820E-07	542031.4	3753228.4	252.6	0.00	1.70	0.76	YES	
L0047861	0	0.42820E-07	542031.3	3753224.8	252.5	0.00	1.70	0.76	YES	
L0047862	0	0.42820E-07	542031.3	3753221.1	252.4	0.00	1.70	0.76	YES	
L0047863	0	0.42820E-07	542031.3	3753217.4	252.4	0.00	1.70	0.76	YES	
L0047864	0	0.42820E-07	542031.2	3753213.8	252.3	0.00	1.70	0.76	YES	
L0047865	0	0.42820E-07	542031.2	3753210.1	252.2	0.00	1.70	0.76	YES	
L0047866	0	0.42820E-07	542031.2	3753206.5	252.1	0.00	1.70	0.76	YES	
L0047867	0	0.42820E-07	542031.1	3753202.8	252.1	0.00	1.70	0.76	YES	
L0047868	0	0.42820E-07	542031.1	3753199.2	252.0	0.00	1.70	0.76	YES	
L0047869	0	0.42820E-07	542031.1	3753195.5	251.9	0.00	1.70	0.76	YES	
L0047870	0	0.42820E-07	542031.0	3753191.8	251.8	0.00	1.70	0.76	YES	
L0047871	0	0.42820E-07	542031.0	3753188.2	251.8	0.00	1.70	0.76	YES	
L0047872	0	0.42820E-07	542031.0	3753184.5	251.7	0.00	1.70	0.76	YES	
L0047873	0	0.42820E-07	542030.9	3753180.9	251.6	0.00	1.70	0.76	YES	
L0047874	0	0.42820E-07	542030.9	3753177.2	251.5	0.00	1.70	0.76	YES	
L0047875	0	0.42820E-07	542030.9	3753173.6	251.4	0.00	1.70	0.76	YES	
L0047876	0	0.42820E-07	542030.8	3753169.9	251.4	0.00	1.70	0.76	YES	
L0047877	0	0.42820E-07	542030.8	3753166.2	251.3	0.00	1.70	0.76	YES	

L0047878	0	0.42820E-07	542030.8	3753162.6	251.2	0.00	1.70	0.76	YES	
L0047879	0	0.42820E-07	542030.7	3753158.9	251.1	0.00	1.70	0.76	YES	
L0047880	0	0.42820E-07	542030.7	3753155.3	251.0	0.00	1.70	0.76	YES	
L0047881	0	0.42820E-07	542030.7	3753151.6	250.9	0.00	1.70	0.76	YES	
L0047882	0	0.42820E-07	542030.6	3753147.9	250.9	0.00	1.70	0.76	YES	
L0047883	0	0.42820E-07	542030.6	3753144.3	250.8	0.00	1.70	0.76	YES	
L0047884	0	0.42820E-07	542030.6	3753140.6	250.6	0.00	1.70	0.76	YES	
L0047885	0	0.42820E-07	542030.5	3753137.0	250.5	0.00	1.70	0.76	YES	
L0047886	0	0.42820E-07	542030.5	3753133.3	250.4	0.00	1.70	0.76	YES	
L0047887	0	0.42820E-07	542030.5	3753129.7	250.3	0.00	1.70	0.76	YES	
L0047888	0	0.42820E-07	542030.5	3753126.0	250.2	0.00	1.70	0.76	YES	
L0047889	0	0.42820E-07	542030.4	3753122.3	250.1	0.00	1.70	0.76	YES	
L0047890	0	0.88800E-07	543901.7	3755432.3	288.3	0.00	1.70	0.76	YES	
L0047891	0	0.88800E-07	543905.4	3755432.3	288.3	0.00	1.70	0.76	YES	
L0047892	0	0.88800E-07	543909.0	3755432.3	288.2	0.00	1.70	0.76	YES	
L0047893	0	0.88800E-07	543912.7	3755432.3	288.2	0.00	1.70	0.76	YES	
L0047894	0	0.88800E-07	543916.3	3755432.3	288.2	0.00	1.70	0.76	YES	
L0047895	0	0.88800E-07	543920.0	3755432.3	288.1	0.00	1.70	0.76	YES	
L0047896	0	0.88800E-07	543923.7	3755432.3	288.1	0.00	1.70	0.76	YES	
L0047897	0	0.88800E-07	543927.3	3755432.3	288.1	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047898	0	0.88800E-07	543931.0	3755432.3	288.0	0.00	1.70	0.76	YES	
L0047899	0	0.88800E-07	543934.6	3755432.3	288.0	0.00	1.70	0.76	YES	
L0047900	0	0.88800E-07	543938.3	3755432.3	287.9	0.00	1.70	0.76	YES	
L0047901	0	0.88800E-07	543941.9	3755432.3	287.9	0.00	1.70	0.76	YES	
L0047902	0	0.88800E-07	543945.6	3755432.3	287.9	0.00	1.70	0.76	YES	
L0047903	0	0.88800E-07	543949.3	3755432.3	287.8	0.00	1.70	0.76	YES	
L0047904	0	0.88800E-07	543952.9	3755432.3	287.8	0.00	1.70	0.76	YES	
L0047905	0	0.88800E-07	543956.6	3755432.3	287.8	0.00	1.70	0.76	YES	
L0047906	0	0.88800E-07	543960.2	3755432.3	287.7	0.00	1.70	0.76	YES	
L0047907	0	0.88800E-07	543963.9	3755432.3	287.7	0.00	1.70	0.76	YES	
L0047908	0	0.88800E-07	543967.5	3755432.3	287.7	0.00	1.70	0.76	YES	
L0047909	0	0.88800E-07	543971.2	3755432.3	287.7	0.00	1.70	0.76	YES	
L0047910	0	0.88800E-07	543974.9	3755432.3	287.7	0.00	1.70	0.76	YES	
L0047911	0	0.88800E-07	543978.5	3755432.3	287.7	0.00	1.70	0.76	YES	
L0047912	0	0.88800E-07	543982.2	3755432.3	287.7	0.00	1.70	0.76	YES	
L0047913	0	0.88800E-07	543985.8	3755432.3	287.7	0.00	1.70	0.76	YES	
L0047914	0	0.88800E-07	543989.5	3755432.3	287.7	0.00	1.70	0.76	YES	

L0047915	0	0.88800E-07	543993.2	3755432.3	287.7	0.00	1.70	0.76	YES
L0047916	0	0.88800E-07	543996.8	3755432.3	287.7	0.00	1.70	0.76	YES
L0047917	0	0.88800E-07	544000.5	3755432.3	287.7	0.00	1.70	0.76	YES
L0047918	0	0.88800E-07	544004.1	3755432.3	287.7	0.00	1.70	0.76	YES
L0047919	0	0.88800E-07	544007.8	3755432.3	287.7	0.00	1.70	0.76	YES
L0047920	0	0.88800E-07	544011.4	3755432.3	287.6	0.00	1.70	0.76	YES
L0047921	0	0.88800E-07	544015.1	3755432.3	287.6	0.00	1.70	0.76	YES
L0047922	0	0.88800E-07	544018.8	3755432.3	287.6	0.00	1.70	0.76	YES
L0047923	0	0.88800E-07	544022.4	3755432.3	287.6	0.00	1.70	0.76	YES
L0047924	0	0.88800E-07	544026.1	3755432.3	287.6	0.00	1.70	0.76	YES
L0047925	0	0.88800E-07	544029.7	3755432.3	287.6	0.00	1.70	0.76	YES
L0047926	0	0.88800E-07	544033.4	3755432.3	287.6	0.00	1.70	0.76	YES
L0047927	0	0.88800E-07	544037.0	3755432.3	287.6	0.00	1.70	0.76	YES
L0047928	0	0.88800E-07	544040.7	3755432.3	287.6	0.00	1.70	0.76	YES
L0047929	0	0.88800E-07	544044.4	3755432.3	287.6	0.00	1.70	0.76	YES
L0047930	0	0.88800E-07	544048.0	3755432.3	287.6	0.00	1.70	0.76	YES
L0047931	0	0.88800E-07	544051.7	3755432.3	287.6	0.00	1.70	0.76	YES
L0047932	0	0.88800E-07	544055.3	3755432.3	287.6	0.00	1.70	0.76	YES
L0047933	0	0.88800E-07	544059.0	3755432.3	287.6	0.00	1.70	0.76	YES
L0047934	0	0.88800E-07	544062.6	3755432.3	287.6	0.00	1.70	0.76	YES
L0047935	0	0.88800E-07	544066.3	3755432.3	287.6	0.00	1.70	0.76	YES
L0047936	0	0.88800E-07	544070.0	3755432.3	287.6	0.00	1.70	0.76	YES
L0047937	0	0.88800E-07	544073.6	3755432.3	287.6	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047938	0	0.88800E-07	544077.3	3755432.3	287.6	0.00	1.70	0.76	YES	
L0047939	0	0.88800E-07	544080.9	3755432.3	287.6	0.00	1.70	0.76	YES	
L0047940	0	0.88800E-07	544084.6	3755432.3	287.5	0.00	1.70	0.76	YES	
L0047941	0	0.88800E-07	544088.2	3755432.3	287.5	0.00	1.70	0.76	YES	
L0047942	0	0.88800E-07	544091.9	3755432.3	287.5	0.00	1.70	0.76	YES	
L0047943	0	0.88800E-07	544095.6	3755432.3	287.5	0.00	1.70	0.76	YES	
L0047944	0	0.88800E-07	544099.2	3755432.2	287.5	0.00	1.70	0.76	YES	
L0047945	0	0.88800E-07	544102.9	3755432.2	287.5	0.00	1.70	0.76	YES	
L0047946	0	0.88800E-07	544106.5	3755432.2	287.5	0.00	1.70	0.76	YES	
L0047947	0	0.88800E-07	544110.2	3755432.2	287.4	0.00	1.70	0.76	YES	
L0047948	0	0.88800E-07	544113.9	3755432.2	287.4	0.00	1.70	0.76	YES	
L0047949	0	0.88800E-07	544117.5	3755432.2	287.4	0.00	1.70	0.76	YES	
L0047950	0	0.88800E-07	544121.2	3755432.2	287.4	0.00	1.70	0.76	YES	
L0047951	0	0.88800E-07	544124.8	3755432.2	287.4	0.00	1.70	0.76	YES	

L0047952	0	0.88800E-07	544128.5	3755432.2	287.4	0.00	1.70	0.76	YES	
L0047953	0	0.88800E-07	544132.1	3755432.2	287.4	0.00	1.70	0.76	YES	
L0047954	0	0.88800E-07	544135.8	3755432.2	287.3	0.00	1.70	0.76	YES	
L0047955	0	0.88800E-07	544139.5	3755432.2	287.3	0.00	1.70	0.76	YES	
L0047956	0	0.88800E-07	544143.1	3755432.2	287.3	0.00	1.70	0.76	YES	
L0047957	0	0.88800E-07	544146.8	3755432.2	287.3	0.00	1.70	0.76	YES	
L0047958	0	0.88800E-07	544150.4	3755432.2	287.3	0.00	1.70	0.76	YES	
L0047959	0	0.88800E-07	544154.1	3755432.2	287.3	0.00	1.70	0.76	YES	
L0047960	0	0.88800E-07	544157.7	3755432.2	287.3	0.00	1.70	0.76	YES	
L0047961	0	0.88800E-07	544161.4	3755432.2	287.2	0.00	1.70	0.76	YES	
L0047962	0	0.88800E-07	544165.1	3755432.2	287.2	0.00	1.70	0.76	YES	
L0047963	0	0.88800E-07	544168.7	3755432.2	287.2	0.00	1.70	0.76	YES	
L0047964	0	0.88800E-07	544172.4	3755432.2	287.2	0.00	1.70	0.76	YES	
L0047965	0	0.88800E-07	544176.0	3755432.2	287.2	0.00	1.70	0.76	YES	
L0047966	0	0.88800E-07	544179.7	3755432.2	287.2	0.00	1.70	0.76	YES	
L0047967	0	0.88800E-07	544183.3	3755432.2	287.1	0.00	1.70	0.76	YES	
L0047968	0	0.88800E-07	544187.0	3755432.2	287.1	0.00	1.70	0.76	YES	
L0047969	0	0.88800E-07	544190.7	3755432.2	287.1	0.00	1.70	0.76	YES	
L0047970	0	0.88800E-07	544194.3	3755432.2	287.1	0.00	1.70	0.76	YES	
L0047971	0	0.88800E-07	544198.0	3755432.2	287.1	0.00	1.70	0.76	YES	
L0047972	0	0.88800E-07	544201.6	3755432.2	287.1	0.00	1.70	0.76	YES	
L0047973	0	0.88800E-07	544205.3	3755432.2	287.1	0.00	1.70	0.76	YES	
L0047974	0	0.88800E-07	544208.9	3755432.2	287.1	0.00	1.70	0.76	YES	
L0047975	0	0.88800E-07	544212.6	3755432.2	287.0	0.00	1.70	0.76	YES	
L0047976	0	0.88800E-07	544216.3	3755432.2	287.0	0.00	1.70	0.76	YES	
L0047977	0	0.88800E-07	544219.9	3755432.2	287.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047978	0	0.88800E-07	544223.6	3755432.2	287.0	0.00	1.70	0.76	YES	
L0047979	0	0.88800E-07	544227.2	3755432.2	287.0	0.00	1.70	0.76	YES	
L0047980	0	0.88800E-07	544230.9	3755432.2	286.9	0.00	1.70	0.76	YES	
L0047981	0	0.88800E-07	544234.6	3755432.2	286.9	0.00	1.70	0.76	YES	
L0047982	0	0.88800E-07	544238.2	3755432.2	286.9	0.00	1.70	0.76	YES	
L0047983	0	0.88800E-07	544241.9	3755432.2	286.9	0.00	1.70	0.76	YES	
L0047984	0	0.88800E-07	544245.5	3755432.2	286.9	0.00	1.70	0.76	YES	
L0047985	0	0.88800E-07	544249.2	3755432.2	286.9	0.00	1.70	0.76	YES	
L0047986	0	0.88800E-07	544252.8	3755432.2	286.8	0.00	1.70	0.76	YES	
L0047987	0	0.88800E-07	544256.5	3755432.2	286.8	0.00	1.70	0.76	YES	
L0047988	0	0.88800E-07	544260.2	3755432.2	286.8	0.00	1.70	0.76	YES	

L0047989	0	0.88800E-07	544263.8	3755432.2	286.8	0.00	1.70	0.76	YES	
L0047990	0	0.88800E-07	544267.5	3755432.2	286.8	0.00	1.70	0.76	YES	
L0047991	0	0.88800E-07	544271.1	3755432.2	286.7	0.00	1.70	0.76	YES	
L0047992	0	0.88800E-07	544274.8	3755432.2	286.7	0.00	1.70	0.76	YES	
L0047993	0	0.88800E-07	544278.4	3755432.2	286.7	0.00	1.70	0.76	YES	
L0047994	0	0.88800E-07	544282.1	3755432.2	286.7	0.00	1.70	0.76	YES	
L0047995	0	0.88800E-07	544285.8	3755432.2	286.6	0.00	1.70	0.76	YES	
L0047996	0	0.88800E-07	544289.4	3755432.2	286.6	0.00	1.70	0.76	YES	
L0047997	0	0.88800E-07	544293.1	3755432.2	286.6	0.00	1.70	0.76	YES	
L0047998	0	0.88800E-07	544296.7	3755432.2	286.6	0.00	1.70	0.76	YES	
L0047999	0	0.88800E-07	544300.4	3755432.2	286.6	0.00	1.70	0.76	YES	
L0048000	0	0.88800E-07	544304.0	3755432.2	286.5	0.00	1.70	0.76	YES	
L0048001	0	0.88800E-07	544307.7	3755432.2	286.5	0.00	1.70	0.76	YES	
L0048002	0	0.88800E-07	544311.4	3755432.2	286.5	0.00	1.70	0.76	YES	
L0048003	0	0.88800E-07	544315.0	3755432.2	286.5	0.00	1.70	0.76	YES	
L0048004	0	0.88800E-07	544318.7	3755432.2	286.4	0.00	1.70	0.76	YES	
L0048005	0	0.88800E-07	544322.3	3755432.2	286.4	0.00	1.70	0.76	YES	
L0048006	0	0.88800E-07	544326.0	3755432.2	286.4	0.00	1.70	0.76	YES	
L0048007	0	0.88800E-07	544329.7	3755432.2	286.4	0.00	1.70	0.76	YES	
L0048008	0	0.88800E-07	544333.3	3755432.2	286.4	0.00	1.70	0.76	YES	
L0048009	0	0.88800E-07	544337.0	3755432.2	286.3	0.00	1.70	0.76	YES	
L0048010	0	0.88800E-07	544340.6	3755432.2	286.3	0.00	1.70	0.76	YES	
L0048011	0	0.88800E-07	544344.3	3755432.2	286.3	0.00	1.70	0.76	YES	
L0048012	0	0.88800E-07	544347.9	3755432.2	286.3	0.00	1.70	0.76	YES	
L0048013	0	0.88800E-07	544351.6	3755432.1	286.2	0.00	1.70	0.76	YES	
L0048014	0	0.88800E-07	544355.3	3755432.1	286.2	0.00	1.70	0.76	YES	
L0048015	0	0.88730E-07	543961.9	3755201.2	284.0	0.00	1.70	0.76	YES	
L0048016	0	0.88730E-07	543965.3	3755202.6	284.0	0.00	1.70	0.76	YES	
L0048017	0	0.88730E-07	543968.6	3755204.1	284.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048018	0	0.88730E-07	543972.0	3755205.5	284.0	0.00	1.70	0.76	YES	
L0048019	0	0.88730E-07	543975.4	3755206.9	284.0	0.00	1.70	0.76	YES	
L0048020	0	0.88730E-07	543978.7	3755208.3	284.0	0.00	1.70	0.76	YES	
L0048021	0	0.88730E-07	543982.1	3755209.8	283.9	0.00	1.70	0.76	YES	
L0048022	0	0.88730E-07	543985.5	3755211.2	283.9	0.00	1.70	0.76	YES	
L0048023	0	0.88730E-07	543988.8	3755212.6	283.9	0.00	1.70	0.76	YES	
L0048024	0	0.88730E-07	543992.2	3755214.0	283.9	0.00	1.70	0.76	YES	
L0048025	0	0.88730E-07	543995.6	3755215.5	283.8	0.00	1.70	0.76	YES	

L0048026	0	0.88730E-07	543999.0	3755216.8	283.8	0.00	1.70	0.76	YES
L0048027	0	0.88730E-07	544002.6	3755217.5	283.7	0.00	1.70	0.76	YES
L0048028	0	0.88730E-07	544006.2	3755218.2	283.6	0.00	1.70	0.76	YES
L0048029	0	0.88730E-07	544009.7	3755218.9	283.5	0.00	1.70	0.76	YES
L0048030	0	0.88730E-07	544013.4	3755219.4	283.4	0.00	1.70	0.76	YES
L0048031	0	0.88730E-07	544017.0	3755219.4	283.4	0.00	1.70	0.76	YES
L0048032	0	0.88730E-07	544020.7	3755219.4	283.4	0.00	1.70	0.76	YES
L0048033	0	0.88730E-07	544024.3	3755219.4	283.3	0.00	1.70	0.76	YES
L0048034	0	0.88730E-07	544028.0	3755219.3	283.3	0.00	1.70	0.76	YES
L0048035	0	0.88730E-07	544031.6	3755219.3	283.2	0.00	1.70	0.76	YES
L0048036	0	0.88730E-07	544035.3	3755219.3	283.2	0.00	1.70	0.76	YES
L0048037	0	0.88730E-07	544039.0	3755219.3	283.2	0.00	1.70	0.76	YES
L0048038	0	0.88730E-07	544042.6	3755219.3	283.2	0.00	1.70	0.76	YES
L0048039	0	0.88730E-07	544046.3	3755219.3	283.2	0.00	1.70	0.76	YES
L0048040	0	0.88730E-07	544049.9	3755219.2	283.2	0.00	1.70	0.76	YES
L0048041	0	0.88730E-07	544053.6	3755219.2	283.2	0.00	1.70	0.76	YES
L0048042	0	0.88730E-07	544057.2	3755219.2	283.2	0.00	1.70	0.76	YES
L0048043	0	0.88730E-07	544060.9	3755219.2	283.2	0.00	1.70	0.76	YES
L0048044	0	0.88730E-07	544064.6	3755219.2	283.2	0.00	1.70	0.76	YES
L0048045	0	0.88730E-07	544068.2	3755219.1	283.2	0.00	1.70	0.76	YES
L0048046	0	0.88730E-07	544071.9	3755219.1	283.2	0.00	1.70	0.76	YES
L0048047	0	0.88730E-07	544075.5	3755219.1	283.2	0.00	1.70	0.76	YES
L0048048	0	0.88730E-07	544079.2	3755219.1	283.2	0.00	1.70	0.76	YES
L0048049	0	0.88730E-07	544082.8	3755219.1	283.2	0.00	1.70	0.76	YES
L0048050	0	0.88730E-07	544086.5	3755219.0	283.2	0.00	1.70	0.76	YES
L0048051	0	0.88730E-07	544090.2	3755219.0	283.2	0.00	1.70	0.76	YES
L0048052	0	0.88730E-07	544093.8	3755219.0	283.2	0.00	1.70	0.76	YES
L0048053	0	0.88730E-07	544097.5	3755219.0	283.2	0.00	1.70	0.76	YES
L0048054	0	0.88730E-07	544101.1	3755219.0	283.2	0.00	1.70	0.76	YES
L0048055	0	0.88730E-07	544104.8	3755219.0	283.2	0.00	1.70	0.76	YES
L0048056	0	0.88730E-07	544108.4	3755218.9	283.2	0.00	1.70	0.76	YES
L0048057	0	0.88730E-07	544112.1	3755218.9	283.2	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048058	0	0.88730E-07	544115.8	3755218.9	283.2	0.00	1.70	0.76	YES	
L0048059	0	0.88730E-07	544119.4	3755218.9	283.2	0.00	1.70	0.76	YES	
L0048060	0	0.88730E-07	544123.1	3755218.9	283.2	0.00	1.70	0.76	YES	
L0048061	0	0.88730E-07	544126.7	3755218.8	283.2	0.00	1.70	0.76	YES	
L0048062	0	0.88730E-07	544130.4	3755218.8	283.2	0.00	1.70	0.76	YES	

L0048063	0	0.88730E-07	544134.1	3755218.8	283.2	0.00	1.70	0.76	YES	
L0048064	0	0.88730E-07	544137.7	3755218.8	283.2	0.00	1.70	0.76	YES	
L0048065	0	0.88730E-07	544141.4	3755218.8	283.2	0.00	1.70	0.76	YES	
L0048066	0	0.88730E-07	544145.0	3755218.8	283.2	0.00	1.70	0.76	YES	
L0048067	0	0.88730E-07	544148.7	3755218.7	283.2	0.00	1.70	0.76	YES	
L0048068	0	0.88730E-07	544152.3	3755218.7	283.2	0.00	1.70	0.76	YES	
L0048069	0	0.88730E-07	544156.0	3755218.7	283.2	0.00	1.70	0.76	YES	
L0048070	0	0.88730E-07	544159.7	3755218.7	283.2	0.00	1.70	0.76	YES	
L0048071	0	0.88730E-07	544163.3	3755218.7	283.2	0.00	1.70	0.76	YES	
L0048072	0	0.88730E-07	544167.0	3755218.6	283.2	0.00	1.70	0.76	YES	
L0048073	0	0.88730E-07	544170.6	3755218.6	283.2	0.00	1.70	0.76	YES	
L0048074	0	0.88730E-07	544174.3	3755218.6	283.2	0.00	1.70	0.76	YES	
L0048075	0	0.88730E-07	544177.9	3755218.6	283.2	0.00	1.70	0.76	YES	
L0048076	0	0.88730E-07	544181.6	3755218.6	283.2	0.00	1.70	0.76	YES	
L0048077	0	0.88730E-07	544185.3	3755218.5	283.2	0.00	1.70	0.76	YES	
L0048078	0	0.88730E-07	544188.9	3755218.5	283.2	0.00	1.70	0.76	YES	
L0048079	0	0.88730E-07	544192.6	3755218.5	283.2	0.00	1.70	0.76	YES	
L0048080	0	0.88730E-07	544196.2	3755218.5	283.2	0.00	1.70	0.76	YES	
L0048081	0	0.88730E-07	544199.9	3755218.5	283.2	0.00	1.70	0.76	YES	
L0048082	0	0.88730E-07	544203.5	3755218.5	283.2	0.00	1.70	0.76	YES	
L0048083	0	0.88730E-07	544207.2	3755218.4	283.2	0.00	1.70	0.76	YES	
L0048084	0	0.88730E-07	544210.9	3755218.4	283.2	0.00	1.70	0.76	YES	
L0048085	0	0.88730E-07	544214.5	3755218.4	283.2	0.00	1.70	0.76	YES	
L0048086	0	0.88730E-07	544218.2	3755218.4	283.2	0.00	1.70	0.76	YES	
L0048087	0	0.88730E-07	544221.8	3755218.4	283.1	0.00	1.70	0.76	YES	
L0048088	0	0.88730E-07	544225.5	3755218.3	283.1	0.00	1.70	0.76	YES	
L0048089	0	0.88730E-07	544229.1	3755218.3	283.1	0.00	1.70	0.76	YES	
L0048090	0	0.88730E-07	544232.8	3755218.3	283.1	0.00	1.70	0.76	YES	
L0048091	0	0.88730E-07	544236.5	3755218.3	283.1	0.00	1.70	0.76	YES	
L0048092	0	0.88730E-07	544240.1	3755218.3	283.1	0.00	1.70	0.76	YES	
L0048093	0	0.88730E-07	544243.8	3755218.3	283.1	0.00	1.70	0.76	YES	
L0048094	0	0.88730E-07	544247.4	3755218.2	283.1	0.00	1.70	0.76	YES	
L0048095	0	0.88730E-07	544251.1	3755218.2	283.0	0.00	1.70	0.76	YES	
L0048096	0	0.88730E-07	544254.8	3755218.2	283.0	0.00	1.70	0.76	YES	
L0048097	0	0.88730E-07	544258.4	3755218.2	283.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048098	0	0.88730E-07	544262.1	3755218.2	283.0	0.00	1.70	0.76	YES	
L0048099	0	0.88730E-07	544265.7	3755218.1	283.0	0.00	1.70	0.76	YES	

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L0048100        0   0.88730E-07  544269.4 3755218.1   283.0     0.00     1.70     0.76     YES
L0048101        0   0.88730E-07  544273.0 3755218.1   283.0     0.00     1.70     0.76     YES
L0048102        0   0.88730E-07  544276.7 3755218.1   283.0     0.00     1.70     0.76     YES
L0048103        0   0.88730E-07  544280.4 3755218.1   282.9     0.00     1.70     0.76     YES
L0048104        0   0.88730E-07  544284.0 3755218.0   282.9     0.00     1.70     0.76     YES
L0048105        0   0.88730E-07  544287.7 3755218.0   282.9     0.00     1.70     0.76     YES
L0048106        0   0.88730E-07  544291.3 3755218.0   282.9     0.00     1.70     0.76     YES
L0048107        0   0.88730E-07  544295.0 3755218.0   282.9     0.00     1.70     0.76     YES
L0048108        0   0.88730E-07  544298.6 3755218.0   282.9     0.00     1.70     0.76     YES
L0048109        0   0.88730E-07  544302.3 3755218.0   282.9     0.00     1.70     0.76     YES
L0048110        0   0.88730E-07  544306.0 3755217.9   282.9     0.00     1.70     0.76     YES
L0048111        0   0.88730E-07  544309.6 3755217.9   282.8     0.00     1.70     0.76     YES
L0048112        0   0.88730E-07  544313.3 3755217.9   282.8     0.00     1.70     0.76     YES
L0048113        0   0.88730E-07  544316.9 3755217.9   282.8     0.00     1.70     0.76     YES
L0048114        0   0.88730E-07  544320.6 3755217.9   282.8     0.00     1.70     0.76     YES
L0048115        0   0.88730E-07  544324.2 3755217.8   282.8     0.00     1.70     0.76     YES
L0048116        0   0.88730E-07  544327.9 3755217.8   282.8     0.00     1.70     0.76     YES
L0048117        0   0.88730E-07  544331.6 3755217.8   282.7     0.00     1.70     0.76     YES
L0048118        0   0.88730E-07  544335.2 3755217.8   282.7     0.00     1.70     0.76     YES
L0048119        0   0.88730E-07  544338.9 3755217.8   282.7     0.00     1.70     0.76     YES
L0048120        0   0.88730E-07  544342.5 3755217.8   282.7     0.00     1.70     0.76     YES
L0048121        0   0.88730E-07  544346.2 3755217.7   282.7     0.00     1.70     0.76     YES
L0048122        0   0.88730E-07  544349.8 3755217.7   282.7     0.00     1.70     0.76     YES
L0048123        0   0.88730E-07  544353.5 3755217.7   282.7     0.00     1.70     0.76     YES
L0048124        0   0.88730E-07  544357.2 3755217.7   282.6     0.00     1.70     0.76     YES
L0048125        0   0.88590E-07  544102.6 3754969.5   279.0     0.00     1.70     0.76     YES
L0048126        0   0.88590E-07  544106.2 3754969.5   279.0     0.00     1.70     0.76     YES
L0048127        0   0.88590E-07  544109.9 3754969.5   279.0     0.00     1.70     0.76     YES
L0048128        0   0.88590E-07  544113.5 3754969.5   279.0     0.00     1.70     0.76     YES
L0048129        0   0.88590E-07  544117.2 3754969.5   279.0     0.00     1.70     0.76     YES
L0048130        0   0.88590E-07  544120.9 3754969.6   279.0     0.00     1.70     0.76     YES
L0048131        0   0.88590E-07  544124.5 3754969.6   279.0     0.00     1.70     0.76     YES
L0048132        0   0.88590E-07  544128.2 3754969.6   279.0     0.00     1.70     0.76     YES
L0048133        0   0.88590E-07  544131.8 3754969.6   279.0     0.00     1.70     0.76     YES
L0048134        0   0.88590E-07  544135.5 3754969.6   279.0     0.00     1.70     0.76     YES
L0048135        0   0.88590E-07  544139.1 3754969.6   279.0     0.00     1.70     0.76     YES
L0048136        0   0.88590E-07  544142.8 3754969.6   279.0     0.00     1.70     0.76     YES
L0048137        0   0.88590E-07  544146.5 3754969.6   278.9     0.00     1.70     0.76     YES
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY

L0048138	0	0.88590E-07	544150.1	3754969.6	278.9	0.00	1.70	0.76	YES
L0048139	0	0.88590E-07	544153.8	3754969.6	278.9	0.00	1.70	0.76	YES
L0048140	0	0.88590E-07	544157.4	3754969.6	278.9	0.00	1.70	0.76	YES
L0048141	0	0.88590E-07	544161.1	3754969.7	278.9	0.00	1.70	0.76	YES
L0048142	0	0.88590E-07	544164.7	3754969.7	278.9	0.00	1.70	0.76	YES
L0048143	0	0.88590E-07	544168.4	3754969.7	278.9	0.00	1.70	0.76	YES
L0048144	0	0.88590E-07	544172.1	3754969.7	278.9	0.00	1.70	0.76	YES
L0048145	0	0.88590E-07	544175.7	3754969.7	278.8	0.00	1.70	0.76	YES
L0048146	0	0.88590E-07	544179.4	3754969.7	278.8	0.00	1.70	0.76	YES
L0048147	0	0.88590E-07	544183.0	3754969.7	278.8	0.00	1.70	0.76	YES
L0048148	0	0.88590E-07	544186.7	3754969.7	278.8	0.00	1.70	0.76	YES
L0048149	0	0.88590E-07	544190.3	3754969.7	278.8	0.00	1.70	0.76	YES
L0048150	0	0.88590E-07	544194.0	3754969.7	278.8	0.00	1.70	0.76	YES
L0048151	0	0.88590E-07	544197.7	3754969.7	278.8	0.00	1.70	0.76	YES
L0048152	0	0.88590E-07	544201.3	3754969.8	278.7	0.00	1.70	0.76	YES
L0048153	0	0.88590E-07	544205.0	3754969.8	278.7	0.00	1.70	0.76	YES
L0048154	0	0.88590E-07	544208.6	3754969.8	278.7	0.00	1.70	0.76	YES
L0048155	0	0.88590E-07	544212.3	3754969.8	278.7	0.00	1.70	0.76	YES
L0048156	0	0.88590E-07	544216.0	3754969.8	278.7	0.00	1.70	0.76	YES
L0048157	0	0.88590E-07	544219.6	3754969.8	278.7	0.00	1.70	0.76	YES
L0048158	0	0.88590E-07	544223.3	3754969.8	278.7	0.00	1.70	0.76	YES
L0048159	0	0.88590E-07	544226.9	3754969.8	278.7	0.00	1.70	0.76	YES
L0048160	0	0.88590E-07	544230.6	3754969.8	278.6	0.00	1.70	0.76	YES
L0048161	0	0.88590E-07	544234.2	3754969.8	278.6	0.00	1.70	0.76	YES
L0048162	0	0.88590E-07	544237.9	3754969.8	278.6	0.00	1.70	0.76	YES
L0048163	0	0.88590E-07	544241.6	3754969.9	278.6	0.00	1.70	0.76	YES
L0048164	0	0.88590E-07	544245.2	3754969.9	278.6	0.00	1.70	0.76	YES
L0048165	0	0.88590E-07	544248.9	3754969.9	278.6	0.00	1.70	0.76	YES
L0048166	0	0.88590E-07	544252.5	3754969.9	278.5	0.00	1.70	0.76	YES
L0048167	0	0.88590E-07	544256.2	3754969.9	278.5	0.00	1.70	0.76	YES
L0048168	0	0.88590E-07	544259.8	3754969.9	278.5	0.00	1.70	0.76	YES
L0048169	0	0.88590E-07	544263.5	3754969.9	278.5	0.00	1.70	0.76	YES
L0048170	0	0.88590E-07	544267.2	3754969.9	278.5	0.00	1.70	0.76	YES
L0048171	0	0.88590E-07	544270.8	3754969.9	278.4	0.00	1.70	0.76	YES
L0048172	0	0.88590E-07	544274.5	3754969.9	278.4	0.00	1.70	0.76	YES
L0048173	0	0.88590E-07	544278.1	3754969.9	278.4	0.00	1.70	0.76	YES
L0048174	0	0.88590E-07	544281.8	3754970.0	278.4	0.00	1.70	0.76	YES
L0048175	0	0.88590E-07	544285.4	3754970.0	278.4	0.00	1.70	0.76	YES
L0048176	0	0.88590E-07	544289.1	3754970.0	278.4	0.00	1.70	0.76	YES
L0048177	0	0.88590E-07	544292.8	3754970.0	278.3	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER	EMISSION RATE	BASE	RELEASE	INIT.	INIT.	URBAN	EMISSION RATE

SOURCE ID	PART. CATS.	(GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE	SCALAR VARY BY
L0048178	0	0.88590E-07	544296.4	3754970.0	278.3	0.00	1.70	0.76	YES	
L0048179	0	0.88590E-07	544300.1	3754970.0	278.3	0.00	1.70	0.76	YES	
L0048180	0	0.88590E-07	544303.7	3754970.0	278.3	0.00	1.70	0.76	YES	
L0048181	0	0.88590E-07	544307.4	3754970.0	278.2	0.00	1.70	0.76	YES	
L0048182	0	0.88590E-07	544311.0	3754970.0	278.2	0.00	1.70	0.76	YES	
L0048183	0	0.88590E-07	544314.7	3754970.0	278.2	0.00	1.70	0.76	YES	
L0048184	0	0.88590E-07	544318.4	3754970.0	278.2	0.00	1.70	0.76	YES	
L0048185	0	0.88590E-07	544322.0	3754970.1	278.2	0.00	1.70	0.76	YES	
L0048186	0	0.88590E-07	544325.7	3754970.1	278.2	0.00	1.70	0.76	YES	
L0048187	0	0.88590E-07	544329.3	3754970.1	278.2	0.00	1.70	0.76	YES	
L0048188	0	0.88590E-07	544333.0	3754970.1	278.1	0.00	1.70	0.76	YES	
L0048189	0	0.88590E-07	544336.7	3754970.1	278.1	0.00	1.70	0.76	YES	
L0048190	0	0.88590E-07	544340.3	3754970.1	278.1	0.00	1.70	0.76	YES	
L0048191	0	0.88590E-07	544344.0	3754970.1	278.1	0.00	1.70	0.76	YES	
L0048192	0	0.88590E-07	544347.6	3754970.1	278.1	0.00	1.70	0.76	YES	
L0048193	0	0.88590E-07	544351.3	3754970.1	278.1	0.00	1.70	0.76	YES	
L0048194	0	0.88590E-07	544354.9	3754970.1	278.0	0.00	1.70	0.76	YES	
L0048195	0	0.88590E-07	544358.6	3754970.1	278.0	0.00	1.70	0.76	YES	
L0048196	0	0.42910E-07	543688.1	3755636.9	294.1	0.00	1.70	0.76	YES	
L0048197	0	0.42910E-07	543688.1	3755640.6	294.2	0.00	1.70	0.76	YES	
L0048198	0	0.42910E-07	543688.1	3755644.2	294.2	0.00	1.70	0.76	YES	
L0048199	0	0.42910E-07	543688.1	3755647.9	294.3	0.00	1.70	0.76	YES	
L0048200	0	0.42910E-07	543688.1	3755651.5	294.4	0.00	1.70	0.76	YES	
L0048201	0	0.42910E-07	543688.1	3755655.2	294.5	0.00	1.70	0.76	YES	
L0048202	0	0.42910E-07	543688.1	3755658.9	294.6	0.00	1.70	0.76	YES	
L0048203	0	0.42910E-07	543688.2	3755662.5	294.6	0.00	1.70	0.76	YES	
L0048204	0	0.42910E-07	543688.2	3755666.2	294.7	0.00	1.70	0.76	YES	
L0048205	0	0.42910E-07	543688.2	3755669.8	294.8	0.00	1.70	0.76	YES	
L0048206	0	0.42910E-07	543688.2	3755673.5	294.9	0.00	1.70	0.76	YES	
L0048207	0	0.42910E-07	543688.2	3755677.1	294.9	0.00	1.70	0.76	YES	
L0048208	0	0.42910E-07	543688.2	3755680.8	295.0	0.00	1.70	0.76	YES	
L0048209	0	0.42910E-07	543688.2	3755684.5	295.1	0.00	1.70	0.76	YES	
L0048210	0	0.42910E-07	543688.2	3755688.1	295.2	0.00	1.70	0.76	YES	
L0048211	0	0.42910E-07	543688.2	3755691.8	295.2	0.00	1.70	0.76	YES	
L0048212	0	0.42910E-07	543688.3	3755695.4	295.3	0.00	1.70	0.76	YES	
L0048213	0	0.42910E-07	543688.3	3755699.1	295.4	0.00	1.70	0.76	YES	
L0048214	0	0.42910E-07	543688.3	3755702.8	295.5	0.00	1.70	0.76	YES	
L0048215	0	0.42910E-07	543688.3	3755706.4	295.6	0.00	1.70	0.76	YES	
L0048216	0	0.42910E-07	543688.3	3755710.1	295.6	0.00	1.70	0.76	YES	
L0048217	0	0.42910E-07	543688.3	3755713.7	295.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048218	0	0.42910E-07	543688.3	3755717.4	295.8	0.00	1.70	0.76	YES	
L0048219	0	0.42910E-07	543688.3	3755721.0	295.9	0.00	1.70	0.76	YES	
L0048220	0	0.42910E-07	543688.3	3755724.7	295.9	0.00	1.70	0.76	YES	
L0048221	0	0.42910E-07	543688.4	3755728.4	296.0	0.00	1.70	0.76	YES	
L0048222	0	0.42910E-07	543688.4	3755732.0	296.1	0.00	1.70	0.76	YES	
L0048223	0	0.42910E-07	543688.4	3755735.7	296.2	0.00	1.70	0.76	YES	
L0048224	0	0.42910E-07	543688.4	3755739.3	296.3	0.00	1.70	0.76	YES	
L0048225	0	0.42910E-07	543688.4	3755743.0	296.3	0.00	1.70	0.76	YES	
L0048226	0	0.42910E-07	543688.4	3755746.6	296.4	0.00	1.70	0.76	YES	
L0048227	0	0.42910E-07	543688.4	3755750.3	296.5	0.00	1.70	0.76	YES	
L0048228	0	0.42910E-07	543688.4	3755754.0	296.6	0.00	1.70	0.76	YES	
L0048229	0	0.42910E-07	543688.4	3755757.6	296.6	0.00	1.70	0.76	YES	
L0048230	0	0.42910E-07	543688.5	3755761.3	296.7	0.00	1.70	0.76	YES	
L0048231	0	0.42910E-07	543688.5	3755764.9	296.8	0.00	1.70	0.76	YES	
L0048232	0	0.42910E-07	543688.5	3755768.6	296.9	0.00	1.70	0.76	YES	
L0048233	0	0.42910E-07	543688.5	3755772.2	296.9	0.00	1.70	0.76	YES	
L0048234	0	0.42910E-07	543688.5	3755775.9	297.0	0.00	1.70	0.76	YES	
L0048235	0	0.42910E-07	543688.5	3755779.6	297.1	0.00	1.70	0.76	YES	
L0048236	0	0.42910E-07	543688.5	3755783.2	297.2	0.00	1.70	0.76	YES	
L0048237	0	0.42910E-07	543688.5	3755786.9	297.2	0.00	1.70	0.76	YES	
L0048238	0	0.42910E-07	543688.5	3755790.5	297.3	0.00	1.70	0.76	YES	
L0048239	0	0.42910E-07	543688.6	3755794.2	297.4	0.00	1.70	0.76	YES	
L0048240	0	0.42910E-07	543688.6	3755797.8	297.4	0.00	1.70	0.76	YES	
L0048241	0	0.42910E-07	543688.6	3755801.5	297.5	0.00	1.70	0.76	YES	
L0048242	0	0.42910E-07	543688.6	3755805.2	297.6	0.00	1.70	0.76	YES	
L0048243	0	0.42910E-07	543688.6	3755808.8	297.7	0.00	1.70	0.76	YES	
L0048244	0	0.42910E-07	543688.6	3755812.5	297.7	0.00	1.70	0.76	YES	
L0048245	0	0.42910E-07	543688.6	3755816.1	297.8	0.00	1.70	0.76	YES	
L0048246	0	0.42910E-07	543688.6	3755819.8	297.9	0.00	1.70	0.76	YES	
L0048247	0	0.42910E-07	543688.6	3755823.5	297.9	0.00	1.70	0.76	YES	
L0048248	0	0.42910E-07	543688.7	3755827.1	298.0	0.00	1.70	0.76	YES	
L0048249	0	0.42910E-07	543688.7	3755830.8	298.1	0.00	1.70	0.76	YES	
L0048250	0	0.42910E-07	543688.7	3755834.4	298.2	0.00	1.70	0.76	YES	
L0048251	0	0.42910E-07	543688.7	3755838.1	298.2	0.00	1.70	0.76	YES	
L0048252	0	0.42910E-07	543688.7	3755841.7	298.3	0.00	1.70	0.76	YES	
L0048253	0	0.42910E-07	543688.7	3755845.4	298.4	0.00	1.70	0.76	YES	
L0048254	0	0.42910E-07	543688.7	3755849.1	298.5	0.00	1.70	0.76	YES	
L0048255	0	0.42910E-07	543688.7	3755852.7	298.5	0.00	1.70	0.76	YES	
L0048256	0	0.42910E-07	543688.7	3755856.4	298.6	0.00	1.70	0.76	YES	
L0048257	0	0.42910E-07	543688.8	3755860.0	298.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048258	0	0.42910E-07	543688.8	3755863.7	298.8	0.00	1.70	0.76	YES	
L0048259	0	0.42910E-07	543688.8	3755867.3	298.8	0.00	1.70	0.76	YES	
L0048260	0	0.42910E-07	543688.8	3755871.0	298.9	0.00	1.70	0.76	YES	
L0048261	0	0.42910E-07	543688.8	3755874.7	299.0	0.00	1.70	0.76	YES	
L0048262	0	0.42910E-07	543688.8	3755878.3	299.1	0.00	1.70	0.76	YES	
L0048263	0	0.42910E-07	543688.8	3755882.0	299.1	0.00	1.70	0.76	YES	
L0048264	0	0.42910E-07	543688.8	3755885.6	299.2	0.00	1.70	0.76	YES	
L0048265	0	0.42910E-07	543688.8	3755889.3	299.3	0.00	1.70	0.76	YES	
L0048266	0	0.42910E-07	543688.9	3755892.9	299.4	0.00	1.70	0.76	YES	
L0048267	0	0.42910E-07	543688.9	3755896.6	299.4	0.00	1.70	0.76	YES	
L0048268	0	0.42910E-07	543688.9	3755900.3	299.5	0.00	1.70	0.76	YES	
L0048269	0	0.42910E-07	543688.9	3755903.9	299.6	0.00	1.70	0.76	YES	
L0048270	0	0.42910E-07	543688.9	3755907.6	299.7	0.00	1.70	0.76	YES	
L0048271	0	0.42910E-07	543688.9	3755911.2	299.7	0.00	1.70	0.76	YES	
L0048272	0	0.42910E-07	543688.9	3755914.9	299.8	0.00	1.70	0.76	YES	
L0048273	0	0.42910E-07	543688.9	3755918.5	299.9	0.00	1.70	0.76	YES	
L0048274	0	0.42910E-07	543688.9	3755922.2	299.9	0.00	1.70	0.76	YES	
L0048275	0	0.42910E-07	543689.0	3755925.9	300.0	0.00	1.70	0.76	YES	
L0048276	0	0.42910E-07	543689.0	3755929.5	300.1	0.00	1.70	0.76	YES	
L0048277	0	0.42910E-07	543689.0	3755933.2	300.2	0.00	1.70	0.76	YES	
L0048278	0	0.42910E-07	543689.0	3755936.8	300.2	0.00	1.70	0.76	YES	
L0048279	0	0.42910E-07	543689.0	3755940.5	300.3	0.00	1.70	0.76	YES	
L0048280	0	0.42910E-07	543689.0	3755944.2	300.4	0.00	1.70	0.76	YES	
L0048281	0	0.42910E-07	543689.0	3755947.8	300.4	0.00	1.70	0.76	YES	
L0048282	0	0.42910E-07	543689.0	3755951.5	300.5	0.00	1.70	0.76	YES	
L0048283	0	0.42910E-07	543689.0	3755955.1	300.6	0.00	1.70	0.76	YES	
L0048284	0	0.42910E-07	543689.1	3755958.8	300.6	0.00	1.70	0.76	YES	
L0048285	0	0.42910E-07	543689.1	3755962.4	300.7	0.00	1.70	0.76	YES	
L0048286	0	0.42910E-07	543689.1	3755966.1	300.8	0.00	1.70	0.76	YES	
L0048287	0	0.42910E-07	543689.1	3755969.8	300.8	0.00	1.70	0.76	YES	
L0048288	0	0.42910E-07	543689.1	3755973.4	300.9	0.00	1.70	0.76	YES	
L0048289	0	0.42910E-07	543689.1	3755977.1	301.0	0.00	1.70	0.76	YES	
L0048290	0	0.42910E-07	543689.1	3755980.7	301.0	0.00	1.70	0.76	YES	
L0048291	0	0.42910E-07	543689.1	3755984.4	301.1	0.00	1.70	0.76	YES	
L0048292	0	0.42910E-07	543689.1	3755988.0	301.2	0.00	1.70	0.76	YES	
L0048293	0	0.42910E-07	543689.2	3755991.7	301.2	0.00	1.70	0.76	YES	
L0048294	0	0.42910E-07	543689.2	3755995.4	301.3	0.00	1.70	0.76	YES	
L0048295	0	0.42910E-07	543689.2	3755999.0	301.4	0.00	1.70	0.76	YES	
L0048296	0	0.42910E-07	543689.2	3756002.7	301.4	0.00	1.70	0.76	YES	
L0048297	0	0.42910E-07	543689.2	3756006.3	301.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048298	0	0.42910E-07	543689.2	3756010.0	301.6	0.00	1.70	0.76	YES	
L0048299	0	0.42910E-07	543689.2	3756013.6	301.6	0.00	1.70	0.76	YES	
L0048300	0	0.42910E-07	543689.2	3756017.3	301.7	0.00	1.70	0.76	YES	
L0048301	0	0.42910E-07	543689.2	3756021.0	301.8	0.00	1.70	0.76	YES	
L0048302	0	0.42910E-07	543689.3	3756024.6	301.8	0.00	1.70	0.76	YES	
L0048303	0	0.42910E-07	543689.3	3756028.3	301.9	0.00	1.70	0.76	YES	
L0048304	0	0.42910E-07	543689.3	3756031.9	302.0	0.00	1.70	0.76	YES	
L0048305	0	0.42910E-07	543689.3	3756035.6	302.0	0.00	1.70	0.76	YES	
L0048306	0	0.42910E-07	543689.3	3756039.2	302.1	0.00	1.70	0.76	YES	
L0048307	0	0.42910E-07	543689.3	3756042.9	302.2	0.00	1.70	0.76	YES	
L0048308	0	0.42910E-07	543689.3	3756046.6	302.2	0.00	1.70	0.76	YES	
L0048309	0	0.42910E-07	543689.3	3756050.2	302.3	0.00	1.70	0.76	YES	
L0048310	0	0.42910E-07	543689.3	3756053.9	302.4	0.00	1.70	0.76	YES	
L0048311	0	0.42910E-07	543689.4	3756057.5	302.4	0.00	1.70	0.76	YES	
L0048312	0	0.42910E-07	543689.4	3756061.2	302.5	0.00	1.70	0.76	YES	
L0048313	0	0.42910E-07	543689.4	3756064.9	302.6	0.00	1.70	0.76	YES	
L0048314	0	0.42910E-07	543689.4	3756068.5	302.7	0.00	1.70	0.76	YES	
L0048315	0	0.42910E-07	543689.4	3756072.2	302.7	0.00	1.70	0.76	YES	
L0048316	0	0.42910E-07	543689.4	3756075.8	302.8	0.00	1.70	0.76	YES	
L0048317	0	0.42910E-07	543689.4	3756079.5	302.9	0.00	1.70	0.76	YES	
L0048318	0	0.42910E-07	543689.4	3756083.1	302.9	0.00	1.70	0.76	YES	
L0048319	0	0.42910E-07	543689.4	3756086.8	303.0	0.00	1.70	0.76	YES	
L0048320	0	0.42910E-07	543689.5	3756090.5	303.1	0.00	1.70	0.76	YES	
L0048321	0	0.42910E-07	543689.5	3756094.1	303.1	0.00	1.70	0.76	YES	
L0048322	0	0.42910E-07	543689.5	3756097.8	303.2	0.00	1.70	0.76	YES	
L0048323	0	0.42910E-07	543689.5	3756101.4	303.3	0.00	1.70	0.76	YES	
L0048324	0	0.42910E-07	543689.5	3756105.1	303.4	0.00	1.70	0.76	YES	
L0048325	0	0.42910E-07	543689.5	3756108.7	303.4	0.00	1.70	0.76	YES	
L0048326	0	0.42910E-07	543689.5	3756112.4	303.5	0.00	1.70	0.76	YES	
L0048327	0	0.42910E-07	543689.5	3756116.1	303.6	0.00	1.70	0.76	YES	
L0048328	0	0.42910E-07	543689.5	3756119.7	303.6	0.00	1.70	0.76	YES	
L0048329	0	0.42910E-07	543689.6	3756123.4	303.7	0.00	1.70	0.76	YES	
L0048330	0	0.42910E-07	543689.6	3756127.0	303.8	0.00	1.70	0.76	YES	
L0048331	0	0.42910E-07	543689.6	3756130.7	303.9	0.00	1.70	0.76	YES	
L0048332	0	0.42910E-07	543689.6	3756134.3	303.9	0.00	1.70	0.76	YES	
L0048333	0	0.42910E-07	543689.6	3756138.0	304.0	0.00	1.70	0.76	YES	
L0048334	0	0.42910E-07	543689.6	3756141.7	304.1	0.00	1.70	0.76	YES	
L0048335	0	0.42910E-07	543689.6	3756145.3	304.2	0.00	1.70	0.76	YES	

L0048336	0	0.42910E-07	543689.6	3756149.0	304.2	0.00	1.70	0.76	YES	
L0048337	0	0.42910E-07	543689.6	3756152.6	304.3	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048338	0	0.42910E-07	543689.7	3756156.3	304.4	0.00	1.70	0.76	YES	
L0048339	0	0.42910E-07	543689.7	3756159.9	304.4	0.00	1.70	0.76	YES	
L0048340	0	0.42910E-07	543689.7	3756163.6	304.5	0.00	1.70	0.76	YES	
L0048341	0	0.42910E-07	543689.7	3756167.3	304.5	0.00	1.70	0.76	YES	
L0048342	0	0.42910E-07	543689.7	3756170.9	304.6	0.00	1.70	0.76	YES	
L0048343	0	0.42910E-07	543689.7	3756174.6	304.7	0.00	1.70	0.76	YES	
L0048344	0	0.42910E-07	543689.7	3756178.2	304.7	0.00	1.70	0.76	YES	
L0048345	0	0.42910E-07	543689.7	3756181.9	304.8	0.00	1.70	0.76	YES	
L0048346	0	0.42910E-07	543689.7	3756185.6	304.9	0.00	1.70	0.76	YES	
L0048347	0	0.42910E-07	543689.8	3756189.2	304.9	0.00	1.70	0.76	YES	
L0048348	0	0.42910E-07	543689.8	3756192.9	305.0	0.00	1.70	0.76	YES	
L0048349	0	0.42910E-07	543689.8	3756196.5	305.1	0.00	1.70	0.76	YES	
L0048350	0	0.42910E-07	543689.8	3756200.2	305.1	0.00	1.70	0.76	YES	
L0048351	0	0.42910E-07	543689.8	3756203.8	305.2	0.00	1.70	0.76	YES	
L0048352	0	0.42910E-07	543689.8	3756207.5	305.3	0.00	1.70	0.76	YES	
L0048353	0	0.42910E-07	543689.8	3756211.2	305.3	0.00	1.70	0.76	YES	
L0048354	0	0.42910E-07	543689.8	3756214.8	305.4	0.00	1.70	0.76	YES	
L0048355	0	0.42910E-07	543689.8	3756218.5	305.4	0.00	1.70	0.76	YES	
L0048356	0	0.42910E-07	543689.9	3756222.1	305.5	0.00	1.70	0.76	YES	
L0048357	0	0.42910E-07	543689.9	3756225.8	305.5	0.00	1.70	0.76	YES	
L0048358	0	0.42910E-07	543689.9	3756229.4	305.6	0.00	1.70	0.76	YES	
L0048359	0	0.42910E-07	543689.9	3756233.1	305.6	0.00	1.70	0.76	YES	
L0048360	0	0.42910E-07	543689.9	3756236.8	305.7	0.00	1.70	0.76	YES	
L0048361	0	0.42910E-07	543689.9	3756240.4	305.7	0.00	1.70	0.76	YES	
L0048362	0	0.42910E-07	543689.9	3756244.1	305.8	0.00	1.70	0.76	YES	
L0048363	0	0.42910E-07	543689.9	3756247.7	305.8	0.00	1.70	0.76	YES	
L0048364	0	0.42910E-07	543689.9	3756251.4	305.9	0.00	1.70	0.76	YES	
L0048365	0	0.42910E-07	543690.0	3756255.0	305.9	0.00	1.70	0.76	YES	
L0048366	0	0.42910E-07	543690.0	3756258.7	306.0	0.00	1.70	0.76	YES	
L0048367	0	0.42910E-07	543690.0	3756262.4	306.0	0.00	1.70	0.76	YES	
L0048368	0	0.42910E-07	543690.0	3756266.0	306.1	0.00	1.70	0.76	YES	
L0048369	0	0.42910E-07	543690.0	3756269.7	306.1	0.00	1.70	0.76	YES	
L0048370	0	0.42910E-07	543690.0	3756273.3	306.2	0.00	1.70	0.76	YES	
L0048371	0	0.42910E-07	543690.0	3756277.0	306.3	0.00	1.70	0.76	YES	
L0048372	0	0.42910E-07	543690.0	3756280.6	306.3	0.00	1.70	0.76	YES	

L0048373	0	0.42910E-07	543690.0	3756284.3	306.4	0.00	1.70	0.76	YES	
L0048374	0	0.42910E-07	543690.1	3756288.0	306.5	0.00	1.70	0.76	YES	
L0048375	0	0.42910E-07	543690.1	3756291.6	306.6	0.00	1.70	0.76	YES	
L0048376	0	0.42910E-07	543690.1	3756295.3	306.6	0.00	1.70	0.76	YES	
L0048377	0	0.42910E-07	543690.1	3756298.9	306.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048378	0	0.42910E-07	543690.1	3756302.6	306.7	0.00	1.70	0.76	YES	
L0048379	0	0.42910E-07	543690.1	3756306.3	306.8	0.00	1.70	0.76	YES	
L0048380	0	0.42910E-07	543690.1	3756309.9	306.8	0.00	1.70	0.76	YES	
L0048381	0	0.42910E-07	543690.1	3756313.6	306.9	0.00	1.70	0.76	YES	
L0048382	0	0.42910E-07	543690.1	3756317.2	306.9	0.00	1.70	0.76	YES	
L0048383	0	0.42910E-07	543690.2	3756320.9	307.0	0.00	1.70	0.76	YES	
L0048384	0	0.42910E-07	543690.2	3756324.5	307.0	0.00	1.70	0.76	YES	
L0048385	0	0.42910E-07	543690.2	3756328.2	307.1	0.00	1.70	0.76	YES	
L0048386	0	0.42910E-07	543690.2	3756331.9	307.1	0.00	1.70	0.76	YES	
L0048387	0	0.42910E-07	543690.2	3756335.5	307.2	0.00	1.70	0.76	YES	
L0048388	0	0.42910E-07	543690.2	3756339.2	307.3	0.00	1.70	0.76	YES	
L0048389	0	0.42910E-07	543690.2	3756342.8	307.3	0.00	1.70	0.76	YES	
L0048390	0	0.42910E-07	543690.2	3756346.5	307.4	0.00	1.70	0.76	YES	
L0048391	0	0.42910E-07	543690.2	3756350.1	307.5	0.00	1.70	0.76	YES	
L0048392	0	0.42910E-07	543690.3	3756353.8	307.5	0.00	1.70	0.76	YES	
L0048393	0	0.42910E-07	543690.3	3756357.5	307.6	0.00	1.70	0.76	YES	
L0048394	0	0.42910E-07	543690.3	3756361.1	307.7	0.00	1.70	0.76	YES	
L0048395	0	0.20670E-07	543696.2	3756365.7	307.7	0.00	1.70	0.76	YES	
L0048396	0	0.20670E-07	543699.9	3756365.7	307.7	0.00	1.70	0.76	YES	
L0048397	0	0.20670E-07	543703.5	3756365.7	307.7	0.00	1.70	0.76	YES	
L0048398	0	0.20670E-07	543707.2	3756365.8	307.7	0.00	1.70	0.76	YES	
L0048399	0	0.20670E-07	543710.9	3756365.8	307.7	0.00	1.70	0.76	YES	
L0048400	0	0.20670E-07	543714.5	3756365.8	307.6	0.00	1.70	0.76	YES	
L0048401	0	0.20670E-07	543718.2	3756365.8	307.6	0.00	1.70	0.76	YES	
L0048402	0	0.20670E-07	543721.8	3756365.8	307.6	0.00	1.70	0.76	YES	
L0048403	0	0.20670E-07	543725.5	3756365.9	307.6	0.00	1.70	0.76	YES	
L0048404	0	0.20670E-07	543729.1	3756365.9	307.6	0.00	1.70	0.76	YES	
L0048405	0	0.20670E-07	543732.8	3756365.9	307.6	0.00	1.70	0.76	YES	
L0048406	0	0.20670E-07	543736.5	3756365.9	307.6	0.00	1.70	0.76	YES	
L0048407	0	0.20670E-07	543740.1	3756366.0	307.6	0.00	1.70	0.76	YES	
L0048408	0	0.20670E-07	543743.8	3756366.0	307.5	0.00	1.70	0.76	YES	
L0048409	0	0.20670E-07	543747.4	3756366.0	307.5	0.00	1.70	0.76	YES	

L0048410	0	0.20670E-07	543751.1	3756366.0	307.5	0.00	1.70	0.76	YES	
L0048411	0	0.20670E-07	543754.8	3756366.1	307.4	0.00	1.70	0.76	YES	
L0048412	0	0.20670E-07	543758.4	3756366.1	307.4	0.00	1.70	0.76	YES	
L0048413	0	0.20670E-07	543762.1	3756366.1	307.4	0.00	1.70	0.76	YES	
L0048414	0	0.20670E-07	543765.7	3756366.1	307.4	0.00	1.70	0.76	YES	
L0048415	0	0.20670E-07	543769.4	3756366.2	307.3	0.00	1.70	0.76	YES	
L0048416	0	0.20670E-07	543773.0	3756366.2	307.3	0.00	1.70	0.76	YES	
L0048417	0	0.20670E-07	543776.7	3756366.2	307.3	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048418	0	0.20670E-07	543780.4	3756366.2	307.2	0.00	1.70	0.76	YES	
L0048419	0	0.20670E-07	543784.0	3756366.3	307.2	0.00	1.70	0.76	YES	
L0048420	0	0.20670E-07	543787.7	3756366.3	307.1	0.00	1.70	0.76	YES	
L0048421	0	0.20670E-07	543791.3	3756366.3	307.0	0.00	1.70	0.76	YES	
L0048422	0	0.20670E-07	543795.0	3756366.3	306.9	0.00	1.70	0.76	YES	
L0048423	0	0.20670E-07	543798.6	3756366.4	306.9	0.00	1.70	0.76	YES	
L0048424	0	0.20670E-07	543802.3	3756366.4	306.8	0.00	1.70	0.76	YES	
L0048425	0	0.20670E-07	543806.0	3756366.4	306.7	0.00	1.70	0.76	YES	
L0048426	0	0.20670E-07	543809.6	3756366.4	306.7	0.00	1.70	0.76	YES	
L0048427	0	0.20670E-07	543813.3	3756366.5	306.6	0.00	1.70	0.76	YES	
L0048428	0	0.20670E-07	543816.9	3756366.5	306.5	0.00	1.70	0.76	YES	
L0048429	0	0.20670E-07	543820.6	3756366.5	306.5	0.00	1.70	0.76	YES	
L0048430	0	0.20670E-07	543824.2	3756366.5	306.4	0.00	1.70	0.76	YES	
L0048431	0	0.20670E-07	543827.9	3756366.6	306.3	0.00	1.70	0.76	YES	
L0048432	0	0.20670E-07	543831.6	3756366.6	306.3	0.00	1.70	0.76	YES	
L0048433	0	0.20670E-07	543835.2	3756366.6	306.3	0.00	1.70	0.76	YES	
L0048434	0	0.20670E-07	543838.9	3756366.6	306.2	0.00	1.70	0.76	YES	
L0048435	0	0.20670E-07	543842.5	3756366.7	306.2	0.00	1.70	0.76	YES	
L0048436	0	0.20670E-07	543846.2	3756366.7	306.2	0.00	1.70	0.76	YES	
L0048437	0	0.20670E-07	543849.8	3756366.7	306.1	0.00	1.70	0.76	YES	
L0048438	0	0.20670E-07	543853.5	3756366.7	306.1	0.00	1.70	0.76	YES	
L0048439	0	0.20670E-07	543857.2	3756366.8	306.1	0.00	1.70	0.76	YES	
L0048440	0	0.20670E-07	543860.8	3756366.8	306.1	0.00	1.70	0.76	YES	
L0048441	0	0.20670E-07	543864.5	3756366.8	306.2	0.00	1.70	0.76	YES	
L0048442	0	0.20670E-07	543868.1	3756366.8	306.2	0.00	1.70	0.76	YES	
L0048443	0	0.20670E-07	543871.8	3756366.9	306.2	0.00	1.70	0.76	YES	
L0048444	0	0.20670E-07	543875.4	3756366.9	306.2	0.00	1.70	0.76	YES	
L0048445	0	0.20670E-07	543879.1	3756366.9	306.2	0.00	1.70	0.76	YES	
L0048446	0	0.20670E-07	543882.8	3756366.9	306.2	0.00	1.70	0.76	YES	

L0048447	0	0.20670E-07	543886.4	3756367.0	306.2	0.00	1.70	0.76	YES
L0048448	0	0.20670E-07	543890.1	3756367.0	306.2	0.00	1.70	0.76	YES
L0048449	0	0.20670E-07	543893.7	3756367.0	306.2	0.00	1.70	0.76	YES
L0048450	0	0.20670E-07	543897.4	3756367.0	306.1	0.00	1.70	0.76	YES
L0048451	0	0.20670E-07	543901.1	3756367.1	306.1	0.00	1.70	0.76	YES
L0048452	0	0.20670E-07	543904.7	3756367.1	306.1	0.00	1.70	0.76	YES
L0048453	0	0.20670E-07	543908.4	3756367.1	306.1	0.00	1.70	0.76	YES
L0048454	0	0.20670E-07	543912.0	3756367.1	306.0	0.00	1.70	0.76	YES
L0048455	0	0.20670E-07	543915.7	3756367.2	306.0	0.00	1.70	0.76	YES
L0048456	0	0.20670E-07	543919.3	3756367.2	306.0	0.00	1.70	0.76	YES
L0048457	0	0.20670E-07	543923.0	3756367.2	305.9	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048458	0	0.20670E-07	543926.7	3756367.2	305.9	0.00	1.70	0.76	YES	
L0048459	0	0.20670E-07	543930.3	3756367.3	305.9	0.00	1.70	0.76	YES	
L0048460	0	0.20670E-07	543934.0	3756367.3	305.8	0.00	1.70	0.76	YES	
L0048461	0	0.20670E-07	543937.6	3756367.3	305.8	0.00	1.70	0.76	YES	
L0048462	0	0.20670E-07	543941.3	3756367.3	305.8	0.00	1.70	0.76	YES	
L0048463	0	0.20670E-07	543944.9	3756367.4	305.7	0.00	1.70	0.76	YES	
L0048464	0	0.20670E-07	543948.6	3756367.4	305.7	0.00	1.70	0.76	YES	
L0048465	0	0.20670E-07	543952.3	3756367.4	305.7	0.00	1.70	0.76	YES	
L0048466	0	0.20670E-07	543955.9	3756367.4	305.6	0.00	1.70	0.76	YES	
L0048467	0	0.20670E-07	543959.6	3756367.5	305.6	0.00	1.70	0.76	YES	
L0048468	0	0.20670E-07	543963.2	3756367.5	305.6	0.00	1.70	0.76	YES	
L0048469	0	0.20670E-07	543966.9	3756367.5	305.5	0.00	1.70	0.76	YES	
L0048470	0	0.20670E-07	543970.5	3756367.5	305.5	0.00	1.70	0.76	YES	
L0048471	0	0.20670E-07	543974.2	3756367.6	305.5	0.00	1.70	0.76	YES	
L0048472	0	0.20670E-07	543977.9	3756367.6	305.4	0.00	1.70	0.76	YES	
L0048473	0	0.20670E-07	543981.5	3756367.6	305.4	0.00	1.70	0.76	YES	
L0048474	0	0.20670E-07	543985.2	3756367.6	305.4	0.00	1.70	0.76	YES	
L0048475	0	0.20670E-07	543988.8	3756367.7	305.3	0.00	1.70	0.76	YES	
L0048476	0	0.20670E-07	543992.5	3756367.7	305.3	0.00	1.70	0.76	YES	
L0048477	0	0.20670E-07	543996.1	3756367.7	305.3	0.00	1.70	0.76	YES	
L0048478	0	0.20670E-07	543999.8	3756367.7	305.2	0.00	1.70	0.76	YES	
L0048479	0	0.20670E-07	544003.5	3756367.8	305.2	0.00	1.70	0.76	YES	
L0048480	0	0.20670E-07	544007.1	3756367.8	305.2	0.00	1.70	0.76	YES	
L0048481	0	0.20670E-07	544010.8	3756367.8	305.2	0.00	1.70	0.76	YES	
L0048482	0	0.20670E-07	544014.4	3756367.8	305.1	0.00	1.70	0.76	YES	
L0048483	0	0.20670E-07	544018.1	3756367.9	305.1	0.00	1.70	0.76	YES	

L0048484	0	0.20670E-07	544021.7	3756367.9	305.1	0.00	1.70	0.76	YES	
L0048485	0	0.20670E-07	544025.4	3756367.9	305.0	0.00	1.70	0.76	YES	
L0048486	0	0.20670E-07	544029.1	3756367.9	305.0	0.00	1.70	0.76	YES	
L0048487	0	0.20670E-07	544032.7	3756368.0	305.0	0.00	1.70	0.76	YES	
L0048488	0	0.20670E-07	544036.4	3756368.0	304.9	0.00	1.70	0.76	YES	
L0048489	0	0.20670E-07	544040.0	3756368.0	304.9	0.00	1.70	0.76	YES	
L0048490	0	0.20670E-07	544043.7	3756368.0	304.9	0.00	1.70	0.76	YES	
L0048491	0	0.20670E-07	544047.4	3756368.1	304.9	0.00	1.70	0.76	YES	
L0048492	0	0.20670E-07	544051.0	3756368.1	304.8	0.00	1.70	0.76	YES	
L0048493	0	0.20670E-07	544054.7	3756368.1	304.8	0.00	1.70	0.76	YES	
L0048494	0	0.20670E-07	544058.3	3756368.1	304.8	0.00	1.70	0.76	YES	
L0048495	0	0.20670E-07	544062.0	3756368.1	304.8	0.00	1.70	0.76	YES	
L0048496	0	0.20670E-07	544065.6	3756368.2	304.7	0.00	1.70	0.76	YES	
L0048497	0	0.20670E-07	544069.3	3756368.2	304.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048498	0	0.20670E-07	544073.0	3756368.2	304.7	0.00	1.70	0.76	YES	
L0048499	0	0.20670E-07	544076.6	3756368.2	304.7	0.00	1.70	0.76	YES	
L0048500	0	0.20670E-07	544080.3	3756368.3	304.7	0.00	1.70	0.76	YES	
L0048501	0	0.20670E-07	544083.9	3756368.3	304.6	0.00	1.70	0.76	YES	
L0048502	0	0.20670E-07	544087.6	3756368.3	304.6	0.00	1.70	0.76	YES	
L0048503	0	0.20670E-07	544091.2	3756368.3	304.6	0.00	1.70	0.76	YES	
L0048504	0	0.20670E-07	544094.9	3756368.4	304.6	0.00	1.70	0.76	YES	
L0048505	0	0.20670E-07	544098.6	3756368.4	304.5	0.00	1.70	0.76	YES	
L0048506	0	0.20670E-07	544102.2	3756368.4	304.5	0.00	1.70	0.76	YES	
L0048507	0	0.20670E-07	544105.9	3756368.4	304.5	0.00	1.70	0.76	YES	
L0048508	0	0.20670E-07	544109.5	3756368.5	304.5	0.00	1.70	0.76	YES	
L0048509	0	0.20670E-07	544113.2	3756368.5	304.4	0.00	1.70	0.76	YES	
L0048510	0	0.20670E-07	544116.8	3756368.5	304.4	0.00	1.70	0.76	YES	
L0048511	0	0.20670E-07	544120.5	3756368.5	304.4	0.00	1.70	0.76	YES	
L0048512	0	0.20670E-07	544124.2	3756368.6	304.4	0.00	1.70	0.76	YES	
L0048513	0	0.20670E-07	544127.8	3756368.6	304.4	0.00	1.70	0.76	YES	
L0048514	0	0.20670E-07	544131.5	3756368.6	304.4	0.00	1.70	0.76	YES	
L0048515	0	0.20670E-07	544135.1	3756368.6	304.4	0.00	1.70	0.76	YES	
L0048516	0	0.20670E-07	544138.8	3756368.7	304.3	0.00	1.70	0.76	YES	
L0048517	0	0.20670E-07	544142.4	3756368.7	304.3	0.00	1.70	0.76	YES	
L0048518	0	0.20670E-07	544146.1	3756368.7	304.3	0.00	1.70	0.76	YES	
L0048519	0	0.20670E-07	544149.8	3756368.7	304.2	0.00	1.70	0.76	YES	
L0048520	0	0.20670E-07	544153.4	3756368.8	304.2	0.00	1.70	0.76	YES	

L0048521	0	0.20670E-07	544157.1	3756368.8	304.2	0.00	1.70	0.76	YES	
L0048522	0	0.20670E-07	544160.7	3756368.8	304.1	0.00	1.70	0.76	YES	
L0048523	0	0.20670E-07	544164.4	3756368.8	304.1	0.00	1.70	0.76	YES	
L0048524	0	0.20670E-07	544168.0	3756368.9	304.0	0.00	1.70	0.76	YES	
L0048525	0	0.20670E-07	544171.7	3756368.9	304.0	0.00	1.70	0.76	YES	
L0048526	0	0.20670E-07	544175.4	3756368.9	304.0	0.00	1.70	0.76	YES	
L0048527	0	0.20670E-07	544179.0	3756368.9	303.9	0.00	1.70	0.76	YES	
L0048528	0	0.20670E-07	544182.7	3756369.0	303.9	0.00	1.70	0.76	YES	
L0048529	0	0.20670E-07	544186.3	3756369.0	303.8	0.00	1.70	0.76	YES	
L0048530	0	0.20670E-07	544190.0	3756369.0	303.8	0.00	1.70	0.76	YES	
L0048531	0	0.20670E-07	544193.7	3756369.0	303.8	0.00	1.70	0.76	YES	
L0048532	0	0.20670E-07	544197.3	3756369.1	303.7	0.00	1.70	0.76	YES	
L0048533	0	0.20670E-07	544201.0	3756369.1	303.7	0.00	1.70	0.76	YES	
L0048534	0	0.20670E-07	544204.6	3756369.1	303.6	0.00	1.70	0.76	YES	
L0048535	0	0.20670E-07	544208.3	3756369.1	303.6	0.00	1.70	0.76	YES	
L0048536	0	0.20670E-07	544211.9	3756369.2	303.5	0.00	1.70	0.76	YES	
L0048537	0	0.20670E-07	544215.6	3756369.2	303.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048538	0	0.20670E-07	544219.3	3756369.2	303.5	0.00	1.70	0.76	YES	
L0048539	0	0.20670E-07	544222.9	3756369.2	303.4	0.00	1.70	0.76	YES	
L0048540	0	0.20670E-07	544226.6	3756369.3	303.4	0.00	1.70	0.76	YES	
L0048541	0	0.20670E-07	544230.2	3756369.3	303.4	0.00	1.70	0.76	YES	
L0048542	0	0.20670E-07	544233.9	3756369.3	303.3	0.00	1.70	0.76	YES	
L0048543	0	0.20670E-07	544237.5	3756369.3	303.3	0.00	1.70	0.76	YES	
L0048544	0	0.20670E-07	544241.2	3756369.4	303.3	0.00	1.70	0.76	YES	
L0048545	0	0.20670E-07	544244.9	3756369.4	303.2	0.00	1.70	0.76	YES	
L0048546	0	0.20670E-07	544248.5	3756369.4	303.2	0.00	1.70	0.76	YES	
L0048547	0	0.20670E-07	544252.2	3756369.4	303.1	0.00	1.70	0.76	YES	
L0048548	0	0.20670E-07	544255.8	3756369.5	303.1	0.00	1.70	0.76	YES	
L0048549	0	0.20670E-07	544259.5	3756369.5	303.0	0.00	1.70	0.76	YES	
L0048550	0	0.20670E-07	544263.1	3756369.5	303.0	0.00	1.70	0.76	YES	
L0048551	0	0.20670E-07	544266.8	3756369.5	303.0	0.00	1.70	0.76	YES	
L0048552	0	0.20670E-07	544270.5	3756369.6	302.9	0.00	1.70	0.76	YES	
L0048553	0	0.20670E-07	544274.1	3756369.6	302.9	0.00	1.70	0.76	YES	
L0048554	0	0.20670E-07	544277.8	3756369.6	302.9	0.00	1.70	0.76	YES	
L0048555	0	0.20670E-07	544281.4	3756369.6	302.8	0.00	1.70	0.76	YES	
L0048556	0	0.20670E-07	544285.1	3756369.7	302.8	0.00	1.70	0.76	YES	
L0048557	0	0.20670E-07	544288.7	3756369.7	302.8	0.00	1.70	0.76	YES	

L0048558	0	0.20670E-07	544292.4	3756369.7	302.7	0.00	1.70	0.76	YES
L0048559	0	0.20670E-07	544296.1	3756369.7	302.7	0.00	1.70	0.76	YES
L0048560	0	0.20670E-07	544299.7	3756369.8	302.7	0.00	1.70	0.76	YES
L0048561	0	0.20670E-07	544303.4	3756369.8	302.7	0.00	1.70	0.76	YES
L0048562	0	0.20670E-07	544307.0	3756369.8	302.6	0.00	1.70	0.76	YES
L0048563	0	0.20670E-07	544310.7	3756369.8	302.6	0.00	1.70	0.76	YES
L0048564	0	0.20670E-07	544314.4	3756369.9	302.6	0.00	1.70	0.76	YES
L0048565	0	0.20670E-07	544318.0	3756369.9	302.6	0.00	1.70	0.76	YES
L0048566	0	0.20670E-07	544321.7	3756369.9	302.5	0.00	1.70	0.76	YES
L0048567	0	0.20670E-07	544325.3	3756369.9	302.5	0.00	1.70	0.76	YES
L0048568	0	0.20670E-07	544329.0	3756370.0	302.5	0.00	1.70	0.76	YES
L0048569	0	0.20670E-07	544332.6	3756370.0	302.4	0.00	1.70	0.76	YES
L0048570	0	0.20670E-07	544336.3	3756370.0	302.4	0.00	1.70	0.76	YES
L0048571	0	0.20670E-07	544340.0	3756370.0	302.4	0.00	1.70	0.76	YES
L0048572	0	0.20670E-07	544343.6	3756370.1	302.3	0.00	1.70	0.76	YES
L0048573	0	0.20670E-07	544347.3	3756370.1	302.2	0.00	1.70	0.76	YES
L0048574	0	0.20670E-07	544350.9	3756370.1	302.2	0.00	1.70	0.76	YES
L0048575	0	0.20670E-07	544354.6	3756370.1	302.1	0.00	1.70	0.76	YES
L0048576	0	0.20670E-07	544358.2	3756370.2	302.1	0.00	1.70	0.76	YES
L0048577	0	0.20670E-07	544361.9	3756370.2	302.0	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048578	0	0.20670E-07	544365.6	3756370.2	301.9	0.00	1.70	0.76	YES	
L0048579	0	0.20670E-07	544369.2	3756370.2	301.8	0.00	1.70	0.76	YES	
L0048580	0	0.20670E-07	544372.9	3756370.3	301.5	0.00	1.70	0.76	YES	
L0048581	0	0.20670E-07	544376.5	3756370.3	301.2	0.00	1.70	0.76	YES	
L0048582	0	0.20670E-07	544380.2	3756370.3	301.0	0.00	1.70	0.76	YES	
L0048583	0	0.20670E-07	544383.8	3756370.3	300.7	0.00	1.70	0.76	YES	
L0048584	0	0.20670E-07	544387.5	3756370.4	300.5	0.00	1.70	0.76	YES	
L0048585	0	0.20670E-07	544391.2	3756370.4	300.2	0.00	1.70	0.76	YES	
L0048586	0	0.20670E-07	544394.8	3756370.4	300.1	0.00	1.70	0.76	YES	
L0048587	0	0.20670E-07	544398.5	3756370.4	300.1	0.00	1.70	0.76	YES	
L0048588	0	0.20670E-07	544402.1	3756370.5	300.2	0.00	1.70	0.76	YES	
L0048589	0	0.20670E-07	544405.8	3756370.5	300.2	0.00	1.70	0.76	YES	
L0048590	0	0.20670E-07	544409.4	3756370.5	300.3	0.00	1.70	0.76	YES	
L0048591	0	0.20670E-07	544413.1	3756370.5	300.3	0.00	1.70	0.76	YES	
L0048592	0	0.20670E-07	544416.8	3756370.5	300.4	0.00	1.70	0.76	YES	
L0048593	0	0.20670E-07	544420.4	3756370.6	300.4	0.00	1.70	0.76	YES	
L0048594	0	0.20670E-07	544424.1	3756370.6	300.4	0.00	1.70	0.76	YES	

L0048595	0	0.20670E-07	544427.7	3756370.6	300.3	0.00	1.70	0.76	YES	
L0048596	0	0.20670E-07	544431.4	3756370.6	300.3	0.00	1.70	0.76	YES	
L0048597	0	0.20670E-07	544435.0	3756370.7	300.2	0.00	1.70	0.76	YES	
L0048598	0	0.20670E-07	544438.7	3756370.7	300.2	0.00	1.70	0.76	YES	
L0048599	0	0.20670E-07	544442.4	3756370.7	300.2	0.00	1.70	0.76	YES	
L0048600	0	0.20670E-07	544446.0	3756370.7	300.1	0.00	1.70	0.76	YES	
L0048601	0	0.20670E-07	544449.7	3756370.8	300.0	0.00	1.70	0.76	YES	
L0048602	0	0.20670E-07	544453.3	3756370.8	299.9	0.00	1.70	0.76	YES	
L0048603	0	0.20670E-07	544457.0	3756370.8	299.9	0.00	1.70	0.76	YES	
L0048604	0	0.20670E-07	544460.7	3756370.8	299.8	0.00	1.70	0.76	YES	
L0048605	0	0.20670E-07	544464.3	3756370.9	299.7	0.00	1.70	0.76	YES	
L0048606	0	0.20670E-07	544468.0	3756370.9	299.6	0.00	1.70	0.76	YES	
L0048607	0	0.20670E-07	544471.6	3756370.9	299.6	0.00	1.70	0.76	YES	
L0048608	0	0.20670E-07	544475.3	3756370.9	299.6	0.00	1.70	0.76	YES	
L0048609	0	0.20670E-07	544478.9	3756371.0	299.6	0.00	1.70	0.76	YES	
L0048610	0	0.20670E-07	544482.6	3756371.0	299.6	0.00	1.70	0.76	YES	
L0048611	0	0.20670E-07	544486.3	3756371.0	299.6	0.00	1.70	0.76	YES	
L0048612	0	0.20670E-07	544489.9	3756371.0	299.7	0.00	1.70	0.76	YES	
L0048613	0	0.20670E-07	544493.6	3756371.1	299.7	0.00	1.70	0.76	YES	
L0048614	0	0.20670E-07	544497.2	3756371.1	299.8	0.00	1.70	0.76	YES	
L0048615	0	0.20670E-07	544500.9	3756371.1	300.1	0.00	1.70	0.76	YES	
L0048616	0	0.20670E-07	544504.5	3756371.1	300.3	0.00	1.70	0.76	YES	
L0048617	0	0.20670E-07	544508.2	3756371.2	300.6	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048618	0	0.20670E-07	544511.9	3756371.2	300.9	0.00	1.70	0.76	YES	
L0048619	0	0.20670E-07	544515.5	3756371.2	301.1	0.00	1.70	0.76	YES	
L0048620	0	0.20670E-07	544519.2	3756371.2	301.4	0.00	1.70	0.76	YES	
L0048621	0	0.20670E-07	544522.8	3756371.3	301.6	0.00	1.70	0.76	YES	
L0048622	0	0.20670E-07	544526.5	3756371.3	301.5	0.00	1.70	0.76	YES	
L0048623	0	0.20670E-07	544530.1	3756371.3	301.5	0.00	1.70	0.76	YES	
L0048624	0	0.20670E-07	544533.8	3756371.3	301.5	0.00	1.70	0.76	YES	
L0048625	0	0.20670E-07	544537.5	3756371.4	301.4	0.00	1.70	0.76	YES	
L0048626	0	0.20670E-07	544541.1	3756371.4	301.4	0.00	1.70	0.76	YES	
L0048627	0	0.20670E-07	544544.8	3756371.4	301.4	0.00	1.70	0.76	YES	
L0048628	0	0.20670E-07	544548.4	3756371.4	301.3	0.00	1.70	0.76	YES	
L0048629	0	0.20670E-07	544552.1	3756371.5	301.3	0.00	1.70	0.76	YES	
L0048630	0	0.20670E-07	544555.7	3756371.5	301.2	0.00	1.70	0.76	YES	
L0048631	0	0.20670E-07	544559.4	3756371.5	301.2	0.00	1.70	0.76	YES	

L0048632	0	0.20670E-07	544563.1	3756371.5	301.1	0.00	1.70	0.76	YES	
L0048633	0	0.20670E-07	544566.7	3756371.6	301.1	0.00	1.70	0.76	YES	
L0048634	0	0.20670E-07	544570.4	3756371.6	301.0	0.00	1.70	0.76	YES	
L0048635	0	0.20670E-07	544574.0	3756371.6	301.0	0.00	1.70	0.76	YES	
L0048636	0	0.20670E-07	544577.7	3756371.6	300.9	0.00	1.70	0.76	YES	
L0048637	0	0.20670E-07	544581.3	3756371.7	300.9	0.00	1.70	0.76	YES	
L0048638	0	0.20670E-07	544585.0	3756371.7	300.8	0.00	1.70	0.76	YES	
L0048639	0	0.20670E-07	544588.7	3756371.7	300.8	0.00	1.70	0.76	YES	
L0048640	0	0.20670E-07	544592.3	3756371.7	300.7	0.00	1.70	0.76	YES	
L0048641	0	0.20670E-07	544596.0	3756371.8	300.6	0.00	1.70	0.76	YES	
L0048642	0	0.20670E-07	544599.6	3756371.8	300.6	0.00	1.70	0.76	YES	
L0048643	0	0.20670E-07	544603.3	3756371.8	300.5	0.00	1.70	0.76	YES	
L0048644	0	0.20670E-07	544607.0	3756371.8	300.4	0.00	1.70	0.76	YES	
L0048645	0	0.20670E-07	544610.6	3756371.9	300.4	0.00	1.70	0.76	YES	
L0048646	0	0.20670E-07	544614.3	3756371.9	300.3	0.00	1.70	0.76	YES	
L0048647	0	0.20670E-07	544617.9	3756371.9	300.2	0.00	1.70	0.76	YES	
L0048648	0	0.20670E-07	544621.6	3756371.9	300.2	0.00	1.70	0.76	YES	
L0048649	0	0.20670E-07	544625.2	3756372.0	300.1	0.00	1.70	0.76	YES	
L0048650	0	0.20670E-07	544628.9	3756372.0	300.0	0.00	1.70	0.76	YES	
L0048651	0	0.20670E-07	544632.6	3756372.0	300.0	0.00	1.70	0.76	YES	
L0048652	0	0.20670E-07	544636.2	3756372.0	299.9	0.00	1.70	0.76	YES	
L0048653	0	0.20670E-07	544639.9	3756372.1	299.8	0.00	1.70	0.76	YES	
L0048654	0	0.20670E-07	544643.5	3756372.1	299.8	0.00	1.70	0.76	YES	
L0048655	0	0.20670E-07	544647.2	3756372.1	299.7	0.00	1.70	0.76	YES	
L0048656	0	0.20670E-07	544650.8	3756372.1	299.6	0.00	1.70	0.76	YES	
L0048657	0	0.20670E-07	544654.5	3756372.2	299.6	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048658	0	0.20670E-07	544658.2	3756372.2	299.6	0.00	1.70	0.76	YES	
L0048659	0	0.20670E-07	544661.8	3756372.2	299.5	0.00	1.70	0.76	YES	
L0048660	0	0.20670E-07	544665.5	3756372.2	299.5	0.00	1.70	0.76	YES	
L0048661	0	0.20670E-07	544669.1	3756372.3	299.4	0.00	1.70	0.76	YES	
L0048662	0	0.20670E-07	544672.8	3756372.3	299.4	0.00	1.70	0.76	YES	
L0048663	0	0.20670E-07	544676.4	3756372.3	299.4	0.00	1.70	0.76	YES	
L0048664	0	0.20670E-07	544680.1	3756372.3	299.3	0.00	1.70	0.76	YES	
L0048665	0	0.20670E-07	544683.8	3756372.4	299.3	0.00	1.70	0.76	YES	
L0048666	0	0.20670E-07	544687.4	3756372.4	299.3	0.00	1.70	0.76	YES	
L0048667	0	0.20670E-07	544691.1	3756372.4	299.3	0.00	1.70	0.76	YES	
L0048668	0	0.20670E-07	544694.7	3756372.4	299.3	0.00	1.70	0.76	YES	

L0048669	0	0.20670E-07	544698.4	3756372.5	299.2	0.00	1.70	0.76	YES	
L0048670	0	0.20670E-07	544702.0	3756372.5	299.2	0.00	1.70	0.76	YES	
L0048671	0	0.20670E-07	544705.7	3756372.5	299.2	0.00	1.70	0.76	YES	
L0048672	0	0.20670E-07	544709.4	3756372.5	299.2	0.00	1.70	0.76	YES	
L0048673	0	0.20670E-07	544713.0	3756372.6	299.2	0.00	1.70	0.76	YES	
L0048674	0	0.20670E-07	544716.7	3756372.6	299.2	0.00	1.70	0.76	YES	
L0048675	0	0.20670E-07	544720.3	3756372.6	299.1	0.00	1.70	0.76	YES	
L0048676	0	0.20670E-07	544724.0	3756372.6	299.1	0.00	1.70	0.76	YES	
L0048677	0	0.20670E-07	544727.6	3756372.7	299.1	0.00	1.70	0.76	YES	
L0048678	0	0.20670E-07	544731.3	3756372.7	299.1	0.00	1.70	0.76	YES	
L0048679	0	0.20670E-07	544735.0	3756372.7	299.0	0.00	1.70	0.76	YES	
L0048680	0	0.20670E-07	544738.6	3756372.7	299.0	0.00	1.70	0.76	YES	
L0048681	0	0.20670E-07	544742.3	3756372.8	299.0	0.00	1.70	0.76	YES	
L0048682	0	0.20670E-07	544745.9	3756372.8	299.0	0.00	1.70	0.76	YES	
L0048683	0	0.20670E-07	544749.6	3756372.8	298.9	0.00	1.70	0.76	YES	
L0048684	0	0.20670E-07	544753.3	3756372.8	298.9	0.00	1.70	0.76	YES	
L0048685	0	0.20670E-07	544756.9	3756372.8	298.9	0.00	1.70	0.76	YES	
L0048686	0	0.20670E-07	544760.6	3756372.9	298.9	0.00	1.70	0.76	YES	
L0048687	0	0.20670E-07	544764.2	3756372.9	298.8	0.00	1.70	0.76	YES	
L0048688	0	0.20670E-07	544767.9	3756372.9	298.8	0.00	1.70	0.76	YES	
L0048689	0	0.20670E-07	544771.5	3756372.9	298.8	0.00	1.70	0.76	YES	
L0048690	0	0.20670E-07	544775.2	3756373.0	298.7	0.00	1.70	0.76	YES	
L0048691	0	0.20670E-07	544778.9	3756373.0	298.7	0.00	1.70	0.76	YES	
L0048692	0	0.20670E-07	544782.5	3756373.0	298.7	0.00	1.70	0.76	YES	
L0048693	0	0.20670E-07	544786.2	3756373.0	298.7	0.00	1.70	0.76	YES	
L0048694	0	0.20670E-07	544789.8	3756373.1	298.7	0.00	1.70	0.76	YES	
L0048695	0	0.20670E-07	544793.5	3756373.1	298.6	0.00	1.70	0.76	YES	
L0048696	0	0.20670E-07	544797.1	3756373.1	298.6	0.00	1.70	0.76	YES	
L0048697	0	0.20670E-07	544800.8	3756373.1	298.6	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048698	0	0.20670E-07	544804.5	3756373.2	298.6	0.00	1.70	0.76	YES	
L0048699	0	0.20670E-07	544808.1	3756373.2	298.5	0.00	1.70	0.76	YES	
L0048700	0	0.20670E-07	544811.8	3756373.2	298.5	0.00	1.70	0.76	YES	
L0048701	0	0.20670E-07	544815.4	3756373.2	298.5	0.00	1.70	0.76	YES	
L0048702	0	0.20670E-07	544819.1	3756373.3	298.4	0.00	1.70	0.76	YES	
L0048703	0	0.20670E-07	544822.7	3756373.3	298.4	0.00	1.70	0.76	YES	
L0048704	0	0.20670E-07	544826.4	3756373.3	298.4	0.00	1.70	0.76	YES	
L0048705	0	0.20670E-07	544830.1	3756373.3	298.3	0.00	1.70	0.76	YES	

L0048706	0	0.20670E-07	544833.7	3756373.4	298.3	0.00	1.70	0.76	YES	
L0048707	0	0.20670E-07	544837.4	3756373.4	298.3	0.00	1.70	0.76	YES	
L0048708	0	0.20670E-07	544841.0	3756373.4	298.2	0.00	1.70	0.76	YES	
L0048709	0	0.20670E-07	544844.7	3756373.4	298.2	0.00	1.70	0.76	YES	
L0048710	0	0.20670E-07	544848.3	3756373.5	298.2	0.00	1.70	0.76	YES	
L0048711	0	0.20670E-07	544852.0	3756373.5	298.2	0.00	1.70	0.76	YES	
L0048712	0	0.20670E-07	544855.7	3756373.5	298.1	0.00	1.70	0.76	YES	
L0048713	0	0.20670E-07	544859.3	3756373.5	298.1	0.00	1.70	0.76	YES	
L0048714	0	0.20670E-07	544863.0	3756373.6	298.1	0.00	1.70	0.76	YES	
L0048715	0	0.20670E-07	544866.6	3756373.6	298.1	0.00	1.70	0.76	YES	
L0048716	0	0.20670E-07	544870.3	3756373.6	298.0	0.00	1.70	0.76	YES	
L0048717	0	0.20670E-07	544874.0	3756373.6	298.0	0.00	1.70	0.76	YES	
L0048718	0	0.20670E-07	544877.6	3756373.7	298.0	0.00	1.70	0.76	YES	
L0048719	0	0.20670E-07	544881.3	3756373.7	297.9	0.00	1.70	0.76	YES	
L0048720	0	0.20670E-07	544884.9	3756373.7	297.9	0.00	1.70	0.76	YES	
L0048721	0	0.20670E-07	544888.6	3756373.7	297.9	0.00	1.70	0.76	YES	
L0048722	0	0.20670E-07	544892.2	3756373.8	297.9	0.00	1.70	0.76	YES	
L0048723	0	0.20670E-07	544895.9	3756373.8	297.9	0.00	1.70	0.76	YES	
L0048724	0	0.20670E-07	544899.6	3756373.8	297.8	0.00	1.70	0.76	YES	
L0048725	0	0.20670E-07	544903.2	3756373.8	297.8	0.00	1.70	0.76	YES	
L0048726	0	0.20670E-07	544906.9	3756373.9	297.8	0.00	1.70	0.76	YES	
L0048727	0	0.20670E-07	544910.5	3756373.9	297.8	0.00	1.70	0.76	YES	
L0048728	0	0.20670E-07	544914.2	3756373.9	297.7	0.00	1.70	0.76	YES	
L0048729	0	0.20670E-07	544917.8	3756373.9	297.7	0.00	1.70	0.76	YES	
L0048730	0	0.20670E-07	544921.5	3756374.0	297.7	0.00	1.70	0.76	YES	
L0048731	0	0.20670E-07	544925.2	3756374.0	297.7	0.00	1.70	0.76	YES	
L0048732	0	0.20670E-07	544928.8	3756374.0	297.6	0.00	1.70	0.76	YES	
L0048733	0	0.20670E-07	544932.5	3756374.0	297.6	0.00	1.70	0.76	YES	
L0048734	0	0.20670E-07	544936.1	3756374.1	297.6	0.00	1.70	0.76	YES	
L0048735	0	0.20670E-07	544939.8	3756374.1	297.5	0.00	1.70	0.76	YES	
L0048736	0	0.20670E-07	544943.4	3756374.1	297.5	0.00	1.70	0.76	YES	
L0048737	0	0.20670E-07	544947.1	3756374.1	297.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048738	0	0.20670E-07	544950.8	3756374.2	297.4	0.00	1.70	0.76	YES	
L0048739	0	0.20670E-07	544954.4	3756374.2	297.4	0.00	1.70	0.76	YES	
L0048740	0	0.20670E-07	544958.1	3756374.2	297.4	0.00	1.70	0.76	YES	
L0048741	0	0.20670E-07	544961.7	3756374.2	297.3	0.00	1.70	0.76	YES	
L0048742	0	0.20670E-07	544965.4	3756374.3	297.3	0.00	1.70	0.76	YES	

L0048743	0	0.20670E-07	544969.0	3756374.3	297.2	0.00	1.70	0.76	YES	
L0048744	0	0.20670E-07	544972.7	3756374.3	297.2	0.00	1.70	0.76	YES	
L0048745	0	0.20670E-07	544976.4	3756374.3	297.1	0.00	1.70	0.76	YES	
L0048746	0	0.20670E-07	544980.0	3756374.4	297.1	0.00	1.70	0.76	YES	
L0048747	0	0.20670E-07	544983.7	3756374.4	297.1	0.00	1.70	0.76	YES	
L0048748	0	0.20670E-07	544987.3	3756374.4	297.0	0.00	1.70	0.76	YES	
L0048749	0	0.20670E-07	544991.0	3756374.3	297.0	0.00	1.70	0.76	YES	
L0048750	0	0.20670E-07	544994.6	3756374.3	296.9	0.00	1.70	0.76	YES	
L0048751	0	0.20670E-07	544998.3	3756374.3	296.9	0.00	1.70	0.76	YES	
L0048752	0	0.20670E-07	545002.0	3756374.2	296.9	0.00	1.70	0.76	YES	
L0048753	0	0.20670E-07	545005.6	3756374.2	296.8	0.00	1.70	0.76	YES	
L0048754	0	0.20670E-07	545009.3	3756374.2	296.8	0.00	1.70	0.76	YES	
L0048755	0	0.20670E-07	545012.9	3756374.1	296.7	0.00	1.70	0.76	YES	
L0048756	0	0.20670E-07	545016.6	3756374.1	296.7	0.00	1.70	0.76	YES	
L0048757	0	0.20670E-07	545020.2	3756374.1	296.6	0.00	1.70	0.76	YES	
L0048758	0	0.20670E-07	545023.9	3756374.0	296.6	0.00	1.70	0.76	YES	
L0048759	0	0.20670E-07	545027.6	3756374.0	296.5	0.00	1.70	0.76	YES	
L0048760	0	0.20670E-07	545031.2	3756374.0	296.5	0.00	1.70	0.76	YES	
L0048761	0	0.20670E-07	545034.9	3756374.0	296.4	0.00	1.70	0.76	YES	
L0048762	0	0.20670E-07	545038.5	3756373.9	296.4	0.00	1.70	0.76	YES	
L0048763	0	0.20670E-07	545042.2	3756373.9	296.4	0.00	1.70	0.76	YES	
L0048764	0	0.20670E-07	545045.9	3756373.9	296.4	0.00	1.70	0.76	YES	
L0048765	0	0.20670E-07	545049.5	3756373.8	296.4	0.00	1.70	0.76	YES	
L0048766	0	0.20670E-07	545053.2	3756373.8	296.4	0.00	1.70	0.76	YES	
L0048767	0	0.20670E-07	545056.8	3756373.8	296.4	0.00	1.70	0.76	YES	
L0048768	0	0.20670E-07	545060.5	3756373.7	296.4	0.00	1.70	0.76	YES	
L0048769	0	0.20670E-07	545064.1	3756373.7	296.3	0.00	1.70	0.76	YES	
L0048770	0	0.20670E-07	545067.8	3756373.7	296.2	0.00	1.70	0.76	YES	
L0048771	0	0.20670E-07	545071.5	3756373.6	296.2	0.00	1.70	0.76	YES	
L0048772	0	0.20670E-07	545075.1	3756373.6	296.1	0.00	1.70	0.76	YES	
L0048773	0	0.20670E-07	545078.8	3756373.6	296.1	0.00	1.70	0.76	YES	
L0048774	0	0.20670E-07	545082.4	3756373.6	296.0	0.00	1.70	0.76	YES	
L0048775	0	0.20670E-07	545086.1	3756373.5	295.9	0.00	1.70	0.76	YES	
L0048776	0	0.20670E-07	545089.7	3756373.5	295.9	0.00	1.70	0.76	YES	
L0048777	0	0.20670E-07	545093.4	3756373.5	296.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048778	0	0.20670E-07	545097.1	3756373.4	296.0	0.00	1.70	0.76	YES	
L0048779	0	0.20670E-07	545100.7	3756373.4	296.0	0.00	1.70	0.76	YES	

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L0048780        0   0.20670E-07  545104.4 3756373.4   296.0     0.00     1.70     0.76     YES
L0048781        0   0.20670E-07  545108.0 3756373.3   296.0     0.00     1.70     0.76     YES
L0048782        0   0.20670E-07  545111.7 3756373.3   296.0     0.00     1.70     0.76     YES
L0048783        0   0.20670E-07  545115.3 3756373.3   296.0     0.00     1.70     0.76     YES
L0048784        0   0.20670E-07  545119.0 3756373.2   295.9     0.00     1.70     0.76     YES
L0048785        0   0.20670E-07  545122.7 3756373.2   295.9     0.00     1.70     0.76     YES
L0048786        0   0.20670E-07  545126.3 3756373.2   295.8     0.00     1.70     0.76     YES
L0048787        0   0.20670E-07  545130.0 3756373.2   295.8     0.00     1.70     0.76     YES
L0048788        0   0.20670E-07  545133.6 3756373.1   295.7     0.00     1.70     0.76     YES
L0048789        0   0.20670E-07  545137.3 3756373.1   295.7     0.00     1.70     0.76     YES
L0048790        0   0.20670E-07  545140.9 3756373.1   295.6     0.00     1.70     0.76     YES
L0048791        0   0.20670E-07  545144.6 3756373.0   295.6     0.00     1.70     0.76     YES
L0048792        0   0.20670E-07  545148.3 3756373.0   295.6     0.00     1.70     0.76     YES
L0048793        0   0.20670E-07  545151.9 3756373.0   295.5     0.00     1.70     0.76     YES
L0048794        0   0.20670E-07  545155.6 3756372.9   295.5     0.00     1.70     0.76     YES
L0048795        0   0.20670E-07  545159.2 3756372.9   295.5     0.00     1.70     0.76     YES
L0048796        0   0.20670E-07  545162.9 3756372.9   295.4     0.00     1.70     0.76     YES
L0048797        0   0.20670E-07  545166.5 3756372.8   295.4     0.00     1.70     0.76     YES
L0048798        0   0.20670E-07  545170.2 3756372.8   295.4     0.00     1.70     0.76     YES
L0048799        0   0.20670E-07  545173.9 3756372.8   295.4     0.00     1.70     0.76     YES
L0048800        0   0.20670E-07  545177.5 3756372.8   295.4     0.00     1.70     0.76     YES
L0048801        0   0.20670E-07  545181.2 3756372.7   295.4     0.00     1.70     0.76     YES
L0048802        0   0.20670E-07  545184.8 3756372.7   295.4     0.00     1.70     0.76     YES
L0048803        0   0.20670E-07  545188.5 3756372.7   295.4     0.00     1.70     0.76     YES
L0048804        0   0.20670E-07  545192.2 3756372.6   295.4     0.00     1.70     0.76     YES
L0048805        0   0.20670E-07  545195.8 3756372.6   295.3     0.00     1.70     0.76     YES
L0048806        0   0.20670E-07  545199.5 3756372.6   295.3     0.00     1.70     0.76     YES
L0048807        0   0.20670E-07  545203.1 3756372.5   295.3     0.00     1.70     0.76     YES
L0048808        0   0.20670E-07  545206.8 3756372.5   295.2     0.00     1.70     0.76     YES
L0048809        0   0.20670E-07  545210.4 3756372.5   295.2     0.00     1.70     0.76     YES
L0048810        0   0.20670E-07  545214.1 3756372.4   295.2     0.00     1.70     0.76     YES
L0048811        0   0.20670E-07  545217.8 3756372.4   295.1     0.00     1.70     0.76     YES
L0048812        0   0.20670E-07  545221.4 3756372.4   295.1     0.00     1.70     0.76     YES
L0048813        0   0.20670E-07  545225.1 3756372.4   295.1     0.00     1.70     0.76     YES
L0048814        0   0.20670E-07  545228.7 3756372.3   295.1     0.00     1.70     0.76     YES
L0048815        0   0.20670E-07  545232.4 3756372.3   295.1     0.00     1.70     0.76     YES
L0048816        0   0.20670E-07  545236.0 3756372.3   295.1     0.00     1.70     0.76     YES
L0048817        0   0.20670E-07  545239.7 3756372.2   295.0     0.00     1.70     0.76     YES
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY

L0048818	0	0.20670E-07	545243.4	3756372.2	295.0	0.00	1.70	0.76	YES
L0048819	0	0.20670E-07	545247.0	3756372.2	295.0	0.00	1.70	0.76	YES
L0048820	0	0.20670E-07	545250.7	3756372.1	294.9	0.00	1.70	0.76	YES
L0048821	0	0.20670E-07	545254.3	3756372.1	294.9	0.00	1.70	0.76	YES
L0048822	0	0.20670E-07	545258.0	3756372.1	294.9	0.00	1.70	0.76	YES
L0048823	0	0.20670E-07	545261.6	3756372.0	294.9	0.00	1.70	0.76	YES
L0048824	0	0.20670E-07	545265.3	3756372.0	294.9	0.00	1.70	0.76	YES
L0048825	0	0.20670E-07	545269.0	3756372.0	294.8	0.00	1.70	0.76	YES
L0048826	0	0.20670E-07	545272.6	3756372.0	294.8	0.00	1.70	0.76	YES
L0048827	0	0.20670E-07	545276.3	3756371.9	294.8	0.00	1.70	0.76	YES
L0048828	0	0.20670E-07	545279.9	3756371.9	294.8	0.00	1.70	0.76	YES
L0048829	0	0.20670E-07	545283.6	3756371.9	294.7	0.00	1.70	0.76	YES
L0048830	0	0.20670E-07	545287.2	3756371.8	294.7	0.00	1.70	0.76	YES
L0048831	0	0.20670E-07	545290.9	3756371.8	294.7	0.00	1.70	0.76	YES
L0048832	0	0.20670E-07	545294.6	3756371.8	294.7	0.00	1.70	0.76	YES
L0048833	0	0.20670E-07	545298.2	3756371.7	294.6	0.00	1.70	0.76	YES
L0048834	0	0.20670E-07	545301.9	3756371.7	294.6	0.00	1.70	0.76	YES
L0048835	0	0.20670E-07	545305.5	3756371.7	294.6	0.00	1.70	0.76	YES
L0048836	0	0.20670E-07	545309.2	3756371.6	294.6	0.00	1.70	0.76	YES
L0048837	0	0.20670E-07	545312.8	3756371.6	294.6	0.00	1.70	0.76	YES
L0048838	0	0.20670E-07	545316.5	3756371.6	294.5	0.00	1.70	0.76	YES
L0048839	0	0.20670E-07	545320.2	3756371.6	294.5	0.00	1.70	0.76	YES
L0048840	0	0.20670E-07	545323.8	3756371.5	294.5	0.00	1.70	0.76	YES
L0048841	0	0.20670E-07	545327.5	3756371.5	294.4	0.00	1.70	0.76	YES
L0048842	0	0.20670E-07	545331.1	3756371.5	294.4	0.00	1.70	0.76	YES
L0048843	0	0.20670E-07	545334.8	3756371.4	294.4	0.00	1.70	0.76	YES
L0048844	0	0.20670E-07	545338.5	3756371.4	294.4	0.00	1.70	0.76	YES
L0048845	0	0.20670E-07	545342.1	3756371.4	294.3	0.00	1.70	0.76	YES
L0048846	0	0.20670E-07	545345.8	3756371.3	294.3	0.00	1.70	0.76	YES
L0048847	0	0.20670E-07	545349.4	3756371.3	294.3	0.00	1.70	0.76	YES
L0048848	0	0.20670E-07	545353.1	3756371.3	294.2	0.00	1.70	0.76	YES
L0048849	0	0.20670E-07	545356.7	3756371.2	294.2	0.00	1.70	0.76	YES
L0048850	0	0.20670E-07	545360.4	3756371.2	294.2	0.00	1.70	0.76	YES
L0048851	0	0.20670E-07	545364.1	3756371.2	294.1	0.00	1.70	0.76	YES
L0048852	0	0.20670E-07	545367.7	3756371.2	294.1	0.00	1.70	0.76	YES
L0048853	0	0.20670E-07	545371.4	3756371.1	294.0	0.00	1.70	0.76	YES
L0048854	0	0.20670E-07	545375.0	3756371.1	294.0	0.00	1.70	0.76	YES
L0048855	0	0.20670E-07	545378.7	3756371.1	293.9	0.00	1.70	0.76	YES
L0048856	0	0.20670E-07	545382.3	3756371.0	293.9	0.00	1.70	0.76	YES
L0048857	0	0.20670E-07	545386.0	3756371.0	293.8	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER	EMISSION RATE	BASE	RELEASE	INIT.	INIT.	URBAN	EMISSION RATE

SOURCE ID	PART. CATS.	(GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE	SCALAR VARY BY
L0048858	0	0.20670E-07	545389.7	3756371.0	293.8	0.00	1.70	0.76	YES	
L0048859	0	0.20670E-07	545393.3	3756370.9	293.7	0.00	1.70	0.76	YES	
L0048860	0	0.20670E-07	545397.0	3756370.9	293.7	0.00	1.70	0.76	YES	
L0048861	0	0.20670E-07	545400.6	3756370.9	293.6	0.00	1.70	0.76	YES	
L0048862	0	0.20670E-07	545404.3	3756370.8	293.6	0.00	1.70	0.76	YES	
L0048863	0	0.20670E-07	545407.9	3756370.8	293.5	0.00	1.70	0.76	YES	
L0048864	0	0.20670E-07	545411.6	3756370.8	293.5	0.00	1.70	0.76	YES	
L0048865	0	0.20670E-07	545415.3	3756370.8	293.4	0.00	1.70	0.76	YES	
L0048866	0	0.20670E-07	545418.9	3756370.7	293.4	0.00	1.70	0.76	YES	
L0048867	0	0.20670E-07	545422.6	3756370.7	293.3	0.00	1.70	0.76	YES	
L0048868	0	0.20670E-07	545426.2	3756370.7	293.3	0.00	1.70	0.76	YES	
L0048869	0	0.20670E-07	545429.9	3756370.6	293.3	0.00	1.70	0.76	YES	
L0048870	0	0.20670E-07	545433.5	3756370.6	293.2	0.00	1.70	0.76	YES	
L0048871	0	0.20670E-07	545437.2	3756370.6	293.2	0.00	1.70	0.76	YES	
L0048872	0	0.20670E-07	545440.9	3756370.5	293.2	0.00	1.70	0.76	YES	
L0048873	0	0.20670E-07	545444.5	3756370.5	293.1	0.00	1.70	0.76	YES	
L0048874	0	0.20670E-07	545448.2	3756370.5	293.1	0.00	1.70	0.76	YES	
L0048875	0	0.20670E-07	545451.8	3756370.4	293.1	0.00	1.70	0.76	YES	
L0048876	0	0.20670E-07	545455.5	3756370.4	293.1	0.00	1.70	0.76	YES	
L0048877	0	0.20670E-07	545459.1	3756370.4	293.0	0.00	1.70	0.76	YES	
L0048878	0	0.20670E-07	545462.8	3756370.4	293.0	0.00	1.70	0.76	YES	
L0048879	0	0.20670E-07	545466.5	3756370.3	293.0	0.00	1.70	0.76	YES	
L0048880	0	0.20670E-07	545470.1	3756370.3	292.9	0.00	1.70	0.76	YES	
L0048881	0	0.20670E-07	545473.8	3756370.3	292.9	0.00	1.70	0.76	YES	
L0048882	0	0.20670E-07	545477.4	3756370.2	292.9	0.00	1.70	0.76	YES	
L0048883	0	0.20670E-07	545481.1	3756370.2	292.8	0.00	1.70	0.76	YES	
L0048884	0	0.20670E-07	545484.7	3756370.2	292.8	0.00	1.70	0.76	YES	
L0048885	0	0.20670E-07	545488.4	3756370.1	292.8	0.00	1.70	0.76	YES	
L0048886	0	0.20670E-07	545492.1	3756370.1	292.7	0.00	1.70	0.76	YES	
L0048887	0	0.20670E-07	545495.7	3756370.1	292.7	0.00	1.70	0.76	YES	
L0048888	0	0.20670E-07	545499.4	3756370.0	292.7	0.00	1.70	0.76	YES	
L0048889	0	0.20670E-07	545503.0	3756370.0	292.7	0.00	1.70	0.76	YES	
L0048890	0	0.20670E-07	545506.7	3756370.0	292.6	0.00	1.70	0.76	YES	
L0048891	0	0.20670E-07	545510.4	3756370.0	292.6	0.00	1.70	0.76	YES	
L0048892	0	0.20670E-07	545514.0	3756369.9	292.6	0.00	1.70	0.76	YES	
L0048893	0	0.20670E-07	545517.7	3756369.9	292.6	0.00	1.70	0.76	YES	
L0048894	0	0.20670E-07	545521.3	3756369.9	292.6	0.00	1.70	0.76	YES	
L0048895	0	0.20670E-07	545525.0	3756369.8	292.6	0.00	1.70	0.76	YES	
L0048896	0	0.20670E-07	545528.6	3756369.8	292.6	0.00	1.70	0.76	YES	
L0048897	0	0.20670E-07	545532.3	3756369.8	292.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048898	0	0.20670E-07	545536.0	3756369.7	292.5	0.00	1.70	0.76	YES	
L0048899	0	0.20670E-07	545539.6	3756369.7	292.5	0.00	1.70	0.76	YES	
L0048900	0	0.20670E-07	545543.3	3756369.7	292.5	0.00	1.70	0.76	YES	
L0048901	0	0.20670E-07	545546.9	3756369.6	292.5	0.00	1.70	0.76	YES	
L0048902	0	0.20670E-07	545550.6	3756369.6	292.4	0.00	1.70	0.76	YES	
L0048903	0	0.20670E-07	545554.2	3756369.6	292.4	0.00	1.70	0.76	YES	
L0048904	0	0.20670E-07	545557.9	3756369.6	292.4	0.00	1.70	0.76	YES	
L0048905	0	0.20670E-07	545561.6	3756369.5	292.3	0.00	1.70	0.76	YES	
L0048906	0	0.20670E-07	545565.2	3756369.5	292.3	0.00	1.70	0.76	YES	
L0048907	0	0.20670E-07	545568.9	3756369.5	292.3	0.00	1.70	0.76	YES	
L0048908	0	0.20670E-07	545572.5	3756369.4	292.2	0.00	1.70	0.76	YES	
L0048909	0	0.20670E-07	545576.2	3756369.4	292.2	0.00	1.70	0.76	YES	
L0048910	0	0.20670E-07	545579.8	3756369.4	292.2	0.00	1.70	0.76	YES	
L0048911	0	0.20670E-07	545583.5	3756369.3	292.1	0.00	1.70	0.76	YES	
L0048912	0	0.20670E-07	545587.2	3756369.3	292.1	0.00	1.70	0.76	YES	
L0048913	0	0.20670E-07	545590.8	3756369.3	292.1	0.00	1.70	0.76	YES	
L0048914	0	0.20670E-07	545594.5	3756369.2	292.0	0.00	1.70	0.76	YES	
L0048915	0	0.20670E-07	545598.1	3756369.2	292.0	0.00	1.70	0.76	YES	
L0048916	0	0.20670E-07	545601.8	3756369.2	291.9	0.00	1.70	0.76	YES	
L0048917	0	0.20670E-07	545605.4	3756369.2	291.9	0.00	1.70	0.76	YES	
L0048918	0	0.20670E-07	545609.1	3756369.1	291.8	0.00	1.70	0.76	YES	
L0048919	0	0.20670E-07	545612.8	3756369.1	291.8	0.00	1.70	0.76	YES	
L0048920	0	0.20670E-07	545616.4	3756369.1	291.7	0.00	1.70	0.76	YES	
L0048921	0	0.20670E-07	545620.1	3756369.0	291.6	0.00	1.70	0.76	YES	
L0048922	0	0.20670E-07	545623.7	3756369.0	291.6	0.00	1.70	0.76	YES	
L0048923	0	0.20670E-07	545627.4	3756369.0	291.5	0.00	1.70	0.76	YES	
L0048924	0	0.20670E-07	545631.0	3756368.9	291.5	0.00	1.70	0.76	YES	
L0048925	0	0.20670E-07	545634.7	3756368.9	291.4	0.00	1.70	0.76	YES	
L0048926	0	0.20670E-07	545638.4	3756369.0	291.4	0.00	1.70	0.76	YES	
L0048927	0	0.20670E-07	545642.0	3756369.0	291.3	0.00	1.70	0.76	YES	
L0048928	0	0.20670E-07	545645.7	3756369.0	291.3	0.00	1.70	0.76	YES	
L0048929	0	0.20670E-07	545649.3	3756369.1	291.2	0.00	1.70	0.76	YES	
L0048930	0	0.20670E-07	545653.0	3756369.1	291.2	0.00	1.70	0.76	YES	
L0048931	0	0.20670E-07	545656.6	3756369.2	291.2	0.00	1.70	0.76	YES	
L0048932	0	0.20670E-07	545660.3	3756369.2	291.1	0.00	1.70	0.76	YES	
L0048933	0	0.20670E-07	545664.0	3756369.2	291.1	0.00	1.70	0.76	YES	
L0048934	0	0.20670E-07	545667.6	3756369.3	291.0	0.00	1.70	0.76	YES	
L0048935	0	0.20670E-07	545671.3	3756369.3	291.0	0.00	1.70	0.76	YES	
L0048936	0	0.20670E-07	545674.9	3756369.4	290.9	0.00	1.70	0.76	YES	
L0048937	0	0.20670E-07	545678.6	3756369.4	290.9	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048938	0	0.20670E-07	545682.3	3756369.5	290.8	0.00	1.70	0.76	YES	
L0048939	0	0.20670E-07	545685.9	3756369.5	290.8	0.00	1.70	0.76	YES	
L0048940	0	0.20670E-07	545689.6	3756369.5	290.7	0.00	1.70	0.76	YES	
L0048941	0	0.20670E-07	545693.2	3756369.6	290.7	0.00	1.70	0.76	YES	
L0048942	0	0.20670E-07	545696.9	3756369.6	290.6	0.00	1.70	0.76	YES	
L0048943	0	0.20670E-07	545700.5	3756369.7	290.6	0.00	1.70	0.76	YES	
L0048944	0	0.20670E-07	545704.2	3756369.7	290.5	0.00	1.70	0.76	YES	
L0048945	0	0.20670E-07	545707.9	3756369.7	290.4	0.00	1.70	0.76	YES	
L0048946	0	0.20670E-07	545711.5	3756369.8	290.4	0.00	1.70	0.76	YES	
L0048947	0	0.20670E-07	545715.2	3756369.8	290.3	0.00	1.70	0.76	YES	
L0048948	0	0.20670E-07	545718.8	3756369.9	290.2	0.00	1.70	0.76	YES	
L0048949	0	0.20670E-07	545722.5	3756369.9	290.2	0.00	1.70	0.76	YES	
L0048950	0	0.20670E-07	545726.1	3756369.9	290.1	0.00	1.70	0.76	YES	
L0048951	0	0.20670E-07	545729.8	3756370.0	290.1	0.00	1.70	0.76	YES	
L0048952	0	0.20670E-07	545733.5	3756370.0	290.0	0.00	1.70	0.76	YES	
L0048953	0	0.20670E-07	545737.1	3756370.1	290.0	0.00	1.70	0.76	YES	
L0048954	0	0.20670E-07	545740.8	3756370.1	290.0	0.00	1.70	0.76	YES	
L0048955	0	0.20670E-07	545744.4	3756370.2	289.9	0.00	1.70	0.76	YES	
L0048956	0	0.20670E-07	545748.1	3756370.2	289.9	0.00	1.70	0.76	YES	
L0048957	0	0.20670E-07	545751.7	3756370.2	289.9	0.00	1.70	0.76	YES	
L0048958	0	0.20670E-07	545755.4	3756370.3	289.8	0.00	1.70	0.76	YES	
L0048959	0	0.20670E-07	545759.1	3756370.3	289.8	0.00	1.70	0.76	YES	
L0048960	0	0.20670E-07	545762.7	3756370.4	289.7	0.00	1.70	0.76	YES	
L0048961	0	0.20670E-07	545766.4	3756370.4	289.7	0.00	1.70	0.76	YES	
L0048962	0	0.20670E-07	545770.0	3756370.4	289.6	0.00	1.70	0.76	YES	
L0048963	0	0.20670E-07	545773.7	3756370.5	289.6	0.00	1.70	0.76	YES	
L0048964	0	0.20670E-07	545777.3	3756370.5	289.5	0.00	1.70	0.76	YES	
L0048965	0	0.20670E-07	545781.0	3756370.6	289.5	0.00	1.70	0.76	YES	
L0048966	0	0.20670E-07	545784.7	3756370.6	289.4	0.00	1.70	0.76	YES	
L0048967	0	0.20670E-07	545788.3	3756370.7	289.4	0.00	1.70	0.76	YES	
L0048968	0	0.20670E-07	545792.0	3756370.7	289.4	0.00	1.70	0.76	YES	
L0048969	0	0.20670E-07	545795.6	3756370.7	289.3	0.00	1.70	0.76	YES	
L0048970	0	0.20670E-07	545799.3	3756370.8	289.2	0.00	1.70	0.76	YES	
L0048971	0	0.20670E-07	545802.9	3756370.8	289.2	0.00	1.70	0.76	YES	
L0048972	0	0.20670E-07	545806.6	3756370.9	289.2	0.00	1.70	0.76	YES	
L0048973	0	0.20670E-07	545810.3	3756370.9	289.1	0.00	1.70	0.76	YES	
L0048974	0	0.20670E-07	545813.9	3756370.9	289.1	0.00	1.70	0.76	YES	
L0048975	0	0.20670E-07	545817.6	3756371.0	289.0	0.00	1.70	0.76	YES	
L0048976	0	0.20670E-07	545821.2	3756371.0	289.0	0.00	1.70	0.76	YES	
L0048977	0	0.20670E-07	545824.9	3756371.1	289.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048978	0	0.20670E-07	545828.5	3756371.1	288.9	0.00	1.70	0.76	YES	
L0048979	0	0.20670E-07	545832.2	3756371.2	288.9	0.00	1.70	0.76	YES	
L0048980	0	0.20670E-07	545835.9	3756371.2	288.8	0.00	1.70	0.76	YES	
L0048981	0	0.20670E-07	545839.5	3756371.2	288.8	0.00	1.70	0.76	YES	
L0048982	0	0.20670E-07	545843.2	3756371.3	288.8	0.00	1.70	0.76	YES	
L0048983	0	0.20670E-07	545846.8	3756371.3	288.7	0.00	1.70	0.76	YES	
L0048984	0	0.20670E-07	545850.5	3756371.4	288.7	0.00	1.70	0.76	YES	
L0048985	0	0.20670E-07	545854.1	3756371.4	288.7	0.00	1.70	0.76	YES	
L0048986	0	0.20670E-07	545857.8	3756371.4	288.6	0.00	1.70	0.76	YES	
L0048987	0	0.20670E-07	545861.5	3756371.5	288.6	0.00	1.70	0.76	YES	
L0048988	0	0.20670E-07	545865.1	3756371.5	288.6	0.00	1.70	0.76	YES	
L0048989	0	0.20670E-07	545868.8	3756371.6	288.5	0.00	1.70	0.76	YES	
L0048990	0	0.20670E-07	545872.4	3756371.6	288.5	0.00	1.70	0.76	YES	
L0048991	0	0.20670E-07	545876.1	3756371.6	288.4	0.00	1.70	0.76	YES	
L0048992	0	0.20670E-07	545879.7	3756371.7	288.4	0.00	1.70	0.76	YES	
L0048993	0	0.20670E-07	545883.4	3756371.7	288.4	0.00	1.70	0.76	YES	
L0048994	0	0.20670E-07	545887.1	3756371.8	288.3	0.00	1.70	0.76	YES	
L0048995	0	0.20670E-07	545890.7	3756371.8	288.3	0.00	1.70	0.76	YES	
L0048996	0	0.20670E-07	545894.4	3756371.9	288.3	0.00	1.70	0.76	YES	
L0048997	0	0.20670E-07	545898.0	3756371.9	288.2	0.00	1.70	0.76	YES	
L0048998	0	0.20670E-07	545901.7	3756371.9	288.2	0.00	1.70	0.76	YES	
L0048999	0	0.20670E-07	545905.4	3756372.0	288.2	0.00	1.70	0.76	YES	
L0049000	0	0.20670E-07	545909.0	3756372.0	288.1	0.00	1.70	0.76	YES	
L0049001	0	0.20670E-07	545912.7	3756372.1	288.1	0.00	1.70	0.76	YES	
L0049002	0	0.20670E-07	545916.3	3756372.1	288.1	0.00	1.70	0.76	YES	
L0049003	0	0.20670E-07	545920.0	3756372.1	288.1	0.00	1.70	0.76	YES	
L0049004	0	0.20670E-07	545923.6	3756372.2	288.0	0.00	1.70	0.76	YES	
L0049005	0	0.20670E-07	545927.3	3756372.2	288.0	0.00	1.70	0.76	YES	
L0049006	0	0.20670E-07	545931.0	3756372.3	288.0	0.00	1.70	0.76	YES	
L0049007	0	0.20670E-07	545934.6	3756372.3	288.0	0.00	1.70	0.76	YES	
L0049008	0	0.20670E-07	545938.3	3756372.4	287.9	0.00	1.70	0.76	YES	
L0049009	0	0.20670E-07	545941.9	3756372.4	287.9	0.00	1.70	0.76	YES	
L0049010	0	0.20670E-07	545945.6	3756372.4	287.9	0.00	1.70	0.76	YES	
L0049011	0	0.20670E-07	545949.2	3756372.5	287.8	0.00	1.70	0.76	YES	
L0049012	0	0.20670E-07	545952.9	3756372.5	287.8	0.00	1.70	0.76	YES	
L0049013	0	0.20670E-07	545956.6	3756372.6	287.7	0.00	1.70	0.76	YES	
L0049014	0	0.20670E-07	545960.2	3756372.6	287.7	0.00	1.70	0.76	YES	
L0049015	0	0.20670E-07	545963.9	3756372.6	287.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049016	0	0.20670E-07	545967.5	3756372.7	287.6	0.00	1.70	0.76	YES	
L0049017	0	0.20670E-07	545971.2	3756372.7	287.6	0.00	1.70	0.76	YES	
L0049018	0	0.20670E-07	545974.8	3756372.8	287.5	0.00	1.70	0.76	YES	
L0049019	0	0.20670E-07	545978.5	3756372.8	287.5	0.00	1.70	0.76	YES	
L0049020	0	0.20670E-07	545982.2	3756372.8	287.4	0.00	1.70	0.76	YES	
L0049021	0	0.20670E-07	545985.8	3756372.9	287.4	0.00	1.70	0.76	YES	
L0049022	0	0.20670E-07	545989.5	3756372.9	287.3	0.00	1.70	0.76	YES	
L0049023	0	0.20670E-07	545993.1	3756373.0	287.2	0.00	1.70	0.76	YES	
L0049024	0	0.20670E-07	545996.8	3756373.0	287.2	0.00	1.70	0.76	YES	
L0049025	0	0.20670E-07	546000.4	3756373.1	287.1	0.00	1.70	0.76	YES	
L0049026	0	0.20670E-07	546004.1	3756373.1	287.1	0.00	1.70	0.76	YES	
L0049027	0	0.20670E-07	546007.8	3756373.1	287.0	0.00	1.70	0.76	YES	
L0049028	0	0.20670E-07	546011.4	3756373.2	286.9	0.00	1.70	0.76	YES	
L0049029	0	0.20670E-07	546015.1	3756373.2	286.9	0.00	1.70	0.76	YES	
L0049030	0	0.20670E-07	546018.7	3756373.3	286.9	0.00	1.70	0.76	YES	
L0049031	0	0.20670E-07	546022.4	3756373.3	286.8	0.00	1.70	0.76	YES	
L0049032	0	0.20670E-07	546026.0	3756373.3	286.8	0.00	1.70	0.76	YES	
L0049033	0	0.20670E-07	546029.7	3756373.4	286.7	0.00	1.70	0.76	YES	
L0049034	0	0.20670E-07	546033.4	3756373.4	286.7	0.00	1.70	0.76	YES	
L0049035	0	0.20670E-07	546037.0	3756373.5	286.6	0.00	1.70	0.76	YES	
L0049036	0	0.20670E-07	546040.7	3756373.5	286.6	0.00	1.70	0.76	YES	
L0049037	0	0.20670E-07	546044.3	3756373.6	286.5	0.00	1.70	0.76	YES	
L0049038	0	0.20670E-07	546048.0	3756373.6	286.4	0.00	1.70	0.76	YES	
L0049039	0	0.20670E-07	546051.6	3756373.6	286.4	0.00	1.70	0.76	YES	
L0049040	0	0.20670E-07	546055.3	3756373.7	286.4	0.00	1.70	0.76	YES	
L0049041	0	0.20670E-07	546059.0	3756373.7	286.3	0.00	1.70	0.76	YES	
L0049042	0	0.20670E-07	546062.6	3756373.8	286.2	0.00	1.70	0.76	YES	
L0049043	0	0.20670E-07	546066.3	3756373.8	286.2	0.00	1.70	0.76	YES	
L0049044	0	0.20670E-07	546069.9	3756373.8	286.1	0.00	1.70	0.76	YES	
L0049045	0	0.20670E-07	546073.6	3756373.9	286.1	0.00	1.70	0.76	YES	
L0049046	0	0.20670E-07	546077.2	3756373.9	286.0	0.00	1.70	0.76	YES	
L0049047	0	0.20670E-07	546080.9	3756374.0	286.0	0.00	1.70	0.76	YES	
L0049048	0	0.22080E-07	543688.4	3756370.2	307.9	0.00	1.70	0.76	YES	
L0049049	0	0.22080E-07	543688.3	3756373.9	307.9	0.00	1.70	0.76	YES	
L0049050	0	0.22080E-07	543688.3	3756377.5	308.0	0.00	1.70	0.76	YES	
L0049051	0	0.22080E-07	543688.3	3756381.2	308.1	0.00	1.70	0.76	YES	
L0049052	0	0.22080E-07	543688.2	3756384.8	308.1	0.00	1.70	0.76	YES	

L0049053	0	0.22080E-07	543688.2	3756388.5	308.2	0.00	1.70	0.76	YES
L0049054	0	0.22080E-07	543688.1	3756392.2	308.3	0.00	1.70	0.76	YES
L0049055	0	0.22080E-07	543688.1	3756395.8	308.4	0.00	1.70	0.76	YES
L0049056	0	0.22080E-07	543688.1	3756399.5	308.5	0.00	1.70	0.76	YES
L0049057	0	0.22080E-07	543688.0	3756403.1	308.6	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049058	0	0.22080E-07	543688.0	3756406.8	308.7	0.00	1.70	0.76	YES	
L0049059	0	0.22080E-07	543687.9	3756410.5	308.8	0.00	1.70	0.76	YES	
L0049060	0	0.22080E-07	543687.9	3756414.1	308.8	0.00	1.70	0.76	YES	
L0049061	0	0.22080E-07	543687.9	3756417.8	308.9	0.00	1.70	0.76	YES	
L0049062	0	0.22080E-07	543687.8	3756421.4	309.0	0.00	1.70	0.76	YES	
L0049063	0	0.22080E-07	543687.8	3756425.1	309.1	0.00	1.70	0.76	YES	
L0049064	0	0.22080E-07	543687.7	3756428.7	309.2	0.00	1.70	0.76	YES	
L0049065	0	0.22080E-07	543687.7	3756432.4	309.3	0.00	1.70	0.76	YES	
L0049066	0	0.22080E-07	543687.7	3756436.1	309.4	0.00	1.70	0.76	YES	
L0049067	0	0.22080E-07	543687.6	3756439.7	309.5	0.00	1.70	0.76	YES	
L0049068	0	0.22080E-07	543687.6	3756443.4	309.6	0.00	1.70	0.76	YES	
L0049069	0	0.22080E-07	543687.5	3756447.0	309.6	0.00	1.70	0.76	YES	
L0049070	0	0.22080E-07	543687.5	3756450.7	309.7	0.00	1.70	0.76	YES	
L0049071	0	0.22080E-07	543687.5	3756454.3	309.8	0.00	1.70	0.76	YES	
L0049072	0	0.22080E-07	543687.4	3756458.0	309.9	0.00	1.70	0.76	YES	
L0049073	0	0.22080E-07	543687.4	3756461.7	309.9	0.00	1.70	0.76	YES	
L0049074	0	0.22080E-07	543687.3	3756465.3	310.0	0.00	1.70	0.76	YES	
L0049075	0	0.22080E-07	543687.3	3756469.0	310.0	0.00	1.70	0.76	YES	
L0049076	0	0.22080E-07	543687.3	3756472.6	310.1	0.00	1.70	0.76	YES	
L0049077	0	0.22080E-07	543687.2	3756476.3	310.2	0.00	1.70	0.76	YES	
L0049078	0	0.22080E-07	543687.2	3756479.9	310.2	0.00	1.70	0.76	YES	
L0049079	0	0.22080E-07	543687.2	3756483.6	310.3	0.00	1.70	0.76	YES	
L0049080	0	0.22080E-07	543687.1	3756487.3	310.3	0.00	1.70	0.76	YES	
L0049081	0	0.22080E-07	543687.1	3756490.9	310.4	0.00	1.70	0.76	YES	
L0049082	0	0.22080E-07	543687.0	3756494.6	310.4	0.00	1.70	0.76	YES	
L0049083	0	0.22080E-07	543687.0	3756498.2	310.5	0.00	1.70	0.76	YES	
L0049084	0	0.22080E-07	543687.0	3756501.9	310.6	0.00	1.70	0.76	YES	
L0049085	0	0.22080E-07	543686.9	3756505.5	310.6	0.00	1.70	0.76	YES	
L0049086	0	0.22080E-07	543686.9	3756509.2	310.7	0.00	1.70	0.76	YES	
L0049087	0	0.22080E-07	543686.8	3756512.9	310.7	0.00	1.70	0.76	YES	
L0049088	0	0.22080E-07	543686.8	3756516.5	310.8	0.00	1.70	0.76	YES	
L0049089	0	0.22080E-07	543686.8	3756520.2	310.8	0.00	1.70	0.76	YES	

L0049090	0	0.22080E-07	543686.7	3756523.8	310.9	0.00	1.70	0.76	YES	
L0049091	0	0.22080E-07	543686.7	3756527.5	310.9	0.00	1.70	0.76	YES	
L0049092	0	0.22080E-07	543686.6	3756531.1	310.9	0.00	1.70	0.76	YES	
L0049093	0	0.22080E-07	543686.6	3756534.8	311.0	0.00	1.70	0.76	YES	
L0049094	0	0.22080E-07	543686.6	3756538.5	311.1	0.00	1.70	0.76	YES	
L0049095	0	0.22080E-07	543686.5	3756542.1	311.1	0.00	1.70	0.76	YES	
L0049096	0	0.22080E-07	543686.5	3756545.8	311.2	0.00	1.70	0.76	YES	
L0049097	0	0.22080E-07	543686.4	3756549.4	311.2	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049098	0	0.22080E-07	543686.4	3756553.1	311.2	0.00	1.70	0.76	YES	
L0049099	0	0.22080E-07	543686.4	3756556.7	311.3	0.00	1.70	0.76	YES	
L0049100	0	0.22080E-07	543686.3	3756560.4	311.4	0.00	1.70	0.76	YES	
L0049101	0	0.22080E-07	543686.3	3756564.1	311.4	0.00	1.70	0.76	YES	
L0049102	0	0.22080E-07	543686.2	3756567.7	311.4	0.00	1.70	0.76	YES	
L0049103	0	0.22080E-07	543686.2	3756571.4	311.5	0.00	1.70	0.76	YES	
L0049104	0	0.22080E-07	543686.2	3756575.0	311.6	0.00	1.70	0.76	YES	
L0049105	0	0.22080E-07	543686.1	3756578.7	311.6	0.00	1.70	0.76	YES	
L0049106	0	0.22080E-07	543686.1	3756582.3	311.7	0.00	1.70	0.76	YES	
L0049107	0	0.22080E-07	543686.0	3756586.0	311.7	0.00	1.70	0.76	YES	
L0049108	0	0.22080E-07	543686.0	3756589.7	311.8	0.00	1.70	0.76	YES	
L0049109	0	0.22080E-07	543686.0	3756593.3	311.8	0.00	1.70	0.76	YES	
L0049110	0	0.22080E-07	543685.9	3756597.0	311.9	0.00	1.70	0.76	YES	
L0049111	0	0.22080E-07	543685.9	3756600.6	311.9	0.00	1.70	0.76	YES	
L0049112	0	0.22080E-07	543685.9	3756604.3	312.0	0.00	1.70	0.76	YES	
L0049113	0	0.22080E-07	543685.8	3756607.9	312.0	0.00	1.70	0.76	YES	
L0049114	0	0.22080E-07	543685.8	3756611.6	312.1	0.00	1.70	0.76	YES	
L0049115	0	0.22080E-07	543685.7	3756615.3	312.1	0.00	1.70	0.76	YES	
L0049116	0	0.22080E-07	543685.7	3756618.9	312.2	0.00	1.70	0.76	YES	
L0049117	0	0.22080E-07	543685.7	3756622.6	312.3	0.00	1.70	0.76	YES	
L0049118	0	0.22080E-07	543685.6	3756626.2	312.3	0.00	1.70	0.76	YES	
L0049119	0	0.22080E-07	543685.6	3756629.9	312.4	0.00	1.70	0.76	YES	
L0049120	0	0.22080E-07	543685.5	3756633.6	312.4	0.00	1.70	0.76	YES	
L0049121	0	0.22080E-07	543685.5	3756637.2	312.5	0.00	1.70	0.76	YES	
L0049122	0	0.22080E-07	543685.5	3756640.9	312.6	0.00	1.70	0.76	YES	
L0049123	0	0.22080E-07	543685.4	3756644.5	312.6	0.00	1.70	0.76	YES	
L0049124	0	0.22080E-07	543685.4	3756648.2	312.7	0.00	1.70	0.76	YES	
L0049125	0	0.22080E-07	543685.3	3756651.8	312.8	0.00	1.70	0.76	YES	
L0049126	0	0.22080E-07	543685.3	3756655.5	312.8	0.00	1.70	0.76	YES	

L0049127	0	0.22080E-07	543685.3	3756659.2	312.9	0.00	1.70	0.76	YES
L0049128	0	0.22080E-07	543685.2	3756662.8	312.9	0.00	1.70	0.76	YES
L0049129	0	0.22080E-07	543685.2	3756666.5	313.0	0.00	1.70	0.76	YES
L0049130	0	0.22080E-07	543685.1	3756670.1	313.1	0.00	1.70	0.76	YES
L0049131	0	0.22080E-07	543685.1	3756673.8	313.2	0.00	1.70	0.76	YES
L0049132	0	0.22080E-07	543685.1	3756677.4	313.2	0.00	1.70	0.76	YES
L0049133	0	0.22080E-07	543685.0	3756681.1	313.3	0.00	1.70	0.76	YES
L0049134	0	0.22080E-07	543685.0	3756684.8	313.4	0.00	1.70	0.76	YES
L0049135	0	0.22080E-07	543684.9	3756688.4	313.5	0.00	1.70	0.76	YES
L0049136	0	0.22080E-07	543684.9	3756692.1	313.5	0.00	1.70	0.76	YES
L0049137	0	0.22080E-07	543684.9	3756695.7	313.6	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049138	0	0.22080E-07	543684.8	3756699.4	313.7	0.00	1.70	0.76	YES	
L0049139	0	0.22080E-07	543684.8	3756703.0	313.8	0.00	1.70	0.76	YES	
L0049140	0	0.22080E-07	543684.7	3756706.7	313.8	0.00	1.70	0.76	YES	
L0049141	0	0.22080E-07	543684.7	3756710.4	313.9	0.00	1.70	0.76	YES	
L0049142	0	0.22080E-07	543684.7	3756714.0	314.0	0.00	1.70	0.76	YES	
L0049143	0	0.22080E-07	543684.6	3756717.7	314.1	0.00	1.70	0.76	YES	
L0049144	0	0.22080E-07	543684.6	3756721.3	314.2	0.00	1.70	0.76	YES	
L0049145	0	0.22080E-07	543684.5	3756725.0	314.2	0.00	1.70	0.76	YES	
L0049146	0	0.22080E-07	543684.5	3756728.6	314.3	0.00	1.70	0.76	YES	
L0049147	0	0.22080E-07	543684.5	3756732.3	314.4	0.00	1.70	0.76	YES	
L0049148	0	0.22080E-07	543684.4	3756736.0	314.5	0.00	1.70	0.76	YES	
L0049149	0	0.22080E-07	543684.4	3756739.6	314.5	0.00	1.70	0.76	YES	
L0049150	0	0.22080E-07	543684.4	3756743.3	314.6	0.00	1.70	0.76	YES	
L0049151	0	0.22080E-07	543684.3	3756746.9	314.7	0.00	1.70	0.76	YES	
L0049152	0	0.22080E-07	543684.3	3756750.6	314.8	0.00	1.70	0.76	YES	
L0049153	0	0.22080E-07	543684.2	3756754.2	314.9	0.00	1.70	0.76	YES	
L0049154	0	0.22080E-07	543684.2	3756757.9	314.9	0.00	1.70	0.76	YES	
L0049155	0	0.22080E-07	543684.2	3756761.6	315.0	0.00	1.70	0.76	YES	
L0049156	0	0.22080E-07	543684.1	3756765.2	315.1	0.00	1.70	0.76	YES	
L0049157	0	0.22080E-07	543684.1	3756768.9	315.2	0.00	1.70	0.76	YES	
L0049158	0	0.22080E-07	543684.0	3756772.5	315.2	0.00	1.70	0.76	YES	
L0049159	0	0.22080E-07	543684.0	3756776.2	315.3	0.00	1.70	0.76	YES	
L0049160	0	0.22080E-07	543684.0	3756779.8	315.4	0.00	1.70	0.76	YES	
L0049161	0	0.22080E-07	543683.9	3756783.5	315.4	0.00	1.70	0.76	YES	
L0049162	0	0.22080E-07	543683.9	3756787.2	315.5	0.00	1.70	0.76	YES	
L0049163	0	0.22080E-07	543683.8	3756790.8	315.6	0.00	1.70	0.76	YES	

L0049164	0	0.22080E-07	543683.8	3756794.5	315.7	0.00	1.70	0.76	YES	
L0049165	0	0.22080E-07	543683.8	3756798.1	315.7	0.00	1.70	0.76	YES	
L0049166	0	0.22080E-07	543683.7	3756801.8	315.8	0.00	1.70	0.76	YES	
L0049167	0	0.22080E-07	543683.7	3756805.4	315.9	0.00	1.70	0.76	YES	
L0049168	0	0.22080E-07	543683.6	3756809.1	315.9	0.00	1.70	0.76	YES	
L0049169	0	0.22080E-07	543683.6	3756812.8	316.0	0.00	1.70	0.76	YES	
L0049170	0	0.22080E-07	543683.6	3756816.4	316.1	0.00	1.70	0.76	YES	
L0049171	0	0.22080E-07	543683.5	3756820.1	316.1	0.00	1.70	0.76	YES	
L0049172	0	0.22080E-07	543683.5	3756823.7	316.2	0.00	1.70	0.76	YES	
L0049173	0	0.22080E-07	543683.4	3756827.4	316.3	0.00	1.70	0.76	YES	
L0049174	0	0.22080E-07	543683.4	3756831.1	316.3	0.00	1.70	0.76	YES	
L0049175	0	0.22080E-07	543683.4	3756834.7	316.4	0.00	1.70	0.76	YES	
L0049176	0	0.22080E-07	543683.3	3756838.4	316.4	0.00	1.70	0.76	YES	
L0049177	0	0.22080E-07	543683.3	3756842.0	316.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049178	0	0.22080E-07	543683.2	3756845.7	316.6	0.00	1.70	0.76	YES	
L0049179	0	0.22080E-07	543683.2	3756849.3	316.6	0.00	1.70	0.76	YES	
L0049180	0	0.22080E-07	543683.2	3756853.0	316.7	0.00	1.70	0.76	YES	
L0049181	0	0.22080E-07	543683.1	3756856.7	316.8	0.00	1.70	0.76	YES	
L0049182	0	0.22080E-07	543683.1	3756860.3	316.8	0.00	1.70	0.76	YES	
L0049183	0	0.22080E-07	543683.1	3756864.0	316.9	0.00	1.70	0.76	YES	
L0049184	0	0.22080E-07	543683.0	3756867.6	317.0	0.00	1.70	0.76	YES	
L0049185	0	0.22080E-07	543683.0	3756871.3	317.0	0.00	1.70	0.76	YES	
L0049186	0	0.22080E-07	543682.9	3756874.9	317.1	0.00	1.70	0.76	YES	
L0049187	0	0.22080E-07	543682.9	3756878.6	317.2	0.00	1.70	0.76	YES	
L0049188	0	0.22080E-07	543682.9	3756882.3	317.2	0.00	1.70	0.76	YES	
L0049189	0	0.22080E-07	543682.8	3756885.9	317.3	0.00	1.70	0.76	YES	
L0049190	0	0.22080E-07	543682.8	3756889.6	317.4	0.00	1.70	0.76	YES	
L0049191	0	0.22080E-07	543682.7	3756893.2	317.4	0.00	1.70	0.76	YES	
L0049192	0	0.22080E-07	543682.7	3756896.9	317.5	0.00	1.70	0.76	YES	
L0049193	0	0.22080E-07	543682.7	3756900.5	317.6	0.00	1.70	0.76	YES	
L0049194	0	0.22080E-07	543682.6	3756904.2	317.7	0.00	1.70	0.76	YES	
L0049195	0	0.22080E-07	543682.6	3756907.9	317.7	0.00	1.70	0.76	YES	
L0049196	0	0.22080E-07	543682.5	3756911.5	317.8	0.00	1.70	0.76	YES	
L0049197	0	0.22080E-07	543682.5	3756915.2	317.9	0.00	1.70	0.76	YES	
L0049198	0	0.22080E-07	543682.5	3756918.8	317.9	0.00	1.70	0.76	YES	
L0049199	0	0.22080E-07	543682.4	3756922.5	318.0	0.00	1.70	0.76	YES	
L0049200	0	0.22080E-07	543682.4	3756926.1	318.1	0.00	1.70	0.76	YES	

L0049201	0	0.22080E-07	543682.3	3756929.8	318.2	0.00	1.70	0.76	YES	
L0049202	0	0.22080E-07	543682.3	3756933.5	318.2	0.00	1.70	0.76	YES	
L0049203	0	0.22080E-07	543682.3	3756937.1	318.3	0.00	1.70	0.76	YES	
L0049204	0	0.22080E-07	543682.2	3756940.8	318.4	0.00	1.70	0.76	YES	
L0049205	0	0.22080E-07	543682.2	3756944.4	318.5	0.00	1.70	0.76	YES	
L0049206	0	0.22080E-07	543682.1	3756948.1	318.6	0.00	1.70	0.76	YES	
L0049207	0	0.22080E-07	543682.1	3756951.7	318.6	0.00	1.70	0.76	YES	
L0049208	0	0.22080E-07	543682.1	3756955.4	318.7	0.00	1.70	0.76	YES	
L0049209	0	0.22080E-07	543682.0	3756959.1	318.8	0.00	1.70	0.76	YES	
L0049210	0	0.22080E-07	543682.0	3756962.7	318.9	0.00	1.70	0.76	YES	
L0049211	0	0.22080E-07	543681.9	3756966.4	318.9	0.00	1.70	0.76	YES	
L0049212	0	0.22080E-07	543681.9	3756970.0	319.0	0.00	1.70	0.76	YES	
L0049213	0	0.22080E-07	543681.9	3756973.7	319.1	0.00	1.70	0.76	YES	
L0049214	0	0.22080E-07	543681.8	3756977.3	319.2	0.00	1.70	0.76	YES	
L0049215	0	0.22080E-07	543681.8	3756981.0	319.2	0.00	1.70	0.76	YES	
L0049216	0	0.22080E-07	543681.7	3756984.7	319.3	0.00	1.70	0.76	YES	
L0049217	0	0.22080E-07	543681.7	3756988.3	319.4	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049218	0	0.22080E-07	543681.7	3756992.0	319.5	0.00	1.70	0.76	YES	
L0049219	0	0.22080E-07	543681.6	3756995.6	319.6	0.00	1.70	0.76	YES	
L0049220	0	0.22080E-07	543681.6	3756999.3	319.6	0.00	1.70	0.76	YES	
L0049221	0	0.22080E-07	543681.6	3757002.9	319.7	0.00	1.70	0.76	YES	
L0049222	0	0.22080E-07	543681.5	3757006.6	319.8	0.00	1.70	0.76	YES	
L0049223	0	0.22080E-07	543681.5	3757010.3	319.9	0.00	1.70	0.76	YES	
L0049224	0	0.22080E-07	543681.4	3757013.9	319.9	0.00	1.70	0.76	YES	
L0049225	0	0.22080E-07	543681.4	3757017.6	320.0	0.00	1.70	0.76	YES	
L0049226	0	0.22080E-07	543681.4	3757021.2	320.1	0.00	1.70	0.76	YES	
L0049227	0	0.22080E-07	543681.3	3757024.9	320.2	0.00	1.70	0.76	YES	
L0049228	0	0.22080E-07	543681.3	3757028.5	320.2	0.00	1.70	0.76	YES	
L0049229	0	0.22080E-07	543681.2	3757032.2	320.3	0.00	1.70	0.76	YES	
L0049230	0	0.22080E-07	543681.2	3757035.9	320.4	0.00	1.70	0.76	YES	
L0049231	0	0.22080E-07	543681.2	3757039.5	320.5	0.00	1.70	0.76	YES	
L0049232	0	0.22080E-07	543681.1	3757043.2	320.6	0.00	1.70	0.76	YES	
L0049233	0	0.22080E-07	543681.1	3757046.8	320.7	0.00	1.70	0.76	YES	
L0049234	0	0.22080E-07	543681.0	3757050.5	320.8	0.00	1.70	0.76	YES	
L0049235	0	0.22080E-07	543681.0	3757054.2	320.9	0.00	1.70	0.76	YES	
L0049236	0	0.22080E-07	543681.0	3757057.8	321.0	0.00	1.70	0.76	YES	
L0049237	0	0.22080E-07	543680.9	3757061.5	321.1	0.00	1.70	0.76	YES	

L0049238	0	0.22080E-07	543680.9	3757065.1	321.2	0.00	1.70	0.76	YES	
L0049239	0	0.22080E-07	543680.8	3757068.8	321.3	0.00	1.70	0.76	YES	
L0049240	0	0.22080E-07	543680.8	3757072.4	321.4	0.00	1.70	0.76	YES	
L0049241	0	0.22080E-07	543680.8	3757076.1	321.5	0.00	1.70	0.76	YES	
L0049242	0	0.22080E-07	543680.7	3757079.8	321.6	0.00	1.70	0.76	YES	
L0049243	0	0.22080E-07	543680.7	3757083.4	321.7	0.00	1.70	0.76	YES	
L0049244	0	0.22080E-07	543680.6	3757087.1	321.8	0.00	1.70	0.76	YES	
L0049245	0	0.22080E-07	543680.6	3757090.7	321.9	0.00	1.70	0.76	YES	
L0049246	0	0.22080E-07	543680.6	3757094.4	322.0	0.00	1.70	0.76	YES	
L0049247	0	0.22080E-07	543680.5	3757098.0	322.1	0.00	1.70	0.76	YES	
L0049248	0	0.22080E-07	543680.5	3757101.7	322.2	0.00	1.70	0.76	YES	
L0049249	0	0.22080E-07	543680.4	3757105.4	322.3	0.00	1.70	0.76	YES	
L0049250	0	0.22080E-07	543680.4	3757109.0	322.4	0.00	1.70	0.76	YES	
L0049251	0	0.22080E-07	543680.4	3757112.7	322.4	0.00	1.70	0.76	YES	
L0049252	0	0.22080E-07	543680.3	3757116.3	322.6	0.00	1.70	0.76	YES	
L0049253	0	0.22080E-07	543680.3	3757120.0	322.7	0.00	1.70	0.76	YES	
L0049254	0	0.22080E-07	543680.2	3757123.6	322.7	0.00	1.70	0.76	YES	
L0049255	0	0.22080E-07	543680.2	3757127.3	322.8	0.00	1.70	0.76	YES	
L0049256	0	0.22080E-07	543680.2	3757131.0	322.9	0.00	1.70	0.76	YES	
L0049257	0	0.22080E-07	543680.1	3757134.6	323.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049258	0	0.22080E-07	543680.1	3757138.3	323.1	0.00	1.70	0.76	YES	
L0049259	0	0.22080E-07	543680.1	3757141.9	323.2	0.00	1.70	0.76	YES	
L0049260	0	0.22080E-07	543680.0	3757145.6	323.2	0.00	1.70	0.76	YES	
L0049261	0	0.22080E-07	543680.0	3757149.2	323.3	0.00	1.70	0.76	YES	
L0049262	0	0.22080E-07	543679.9	3757152.9	323.4	0.00	1.70	0.76	YES	
L0049263	0	0.22080E-07	543679.9	3757156.6	323.5	0.00	1.70	0.76	YES	
L0049264	0	0.22080E-07	543679.9	3757160.2	323.5	0.00	1.70	0.76	YES	
L0049265	0	0.22080E-07	543679.8	3757163.9	323.6	0.00	1.70	0.76	YES	
L0049266	0	0.22080E-07	543679.8	3757167.5	323.7	0.00	1.70	0.76	YES	
L0049267	0	0.22080E-07	543679.7	3757171.2	323.8	0.00	1.70	0.76	YES	
L0049268	0	0.22080E-07	543679.7	3757174.8	323.8	0.00	1.70	0.76	YES	
L0049269	0	0.22080E-07	543679.7	3757178.5	323.9	0.00	1.70	0.76	YES	
L0049270	0	0.22080E-07	543679.6	3757182.2	323.9	0.00	1.70	0.76	YES	
L0049271	0	0.22080E-07	543679.6	3757185.8	324.0	0.00	1.70	0.76	YES	
L0049272	0	0.22080E-07	543679.5	3757189.5	324.1	0.00	1.70	0.76	YES	
L0049273	0	0.22080E-07	543679.5	3757193.1	324.2	0.00	1.70	0.76	YES	
L0049274	0	0.22080E-07	543679.5	3757196.8	324.2	0.00	1.70	0.76	YES	

L0049275	0	0.22080E-07	543679.4	3757200.4	324.3	0.00	1.70	0.76	YES
L0049276	0	0.22080E-07	543679.4	3757204.1	324.3	0.00	1.70	0.76	YES
L0049277	0	0.22080E-07	543679.3	3757207.8	324.4	0.00	1.70	0.76	YES
L0049278	0	0.22080E-07	543679.3	3757211.4	324.4	0.00	1.70	0.76	YES
L0049279	0	0.22080E-07	543679.3	3757215.1	324.5	0.00	1.70	0.76	YES
L0049280	0	0.22080E-07	543679.2	3757218.7	324.6	0.00	1.70	0.76	YES
L0049281	0	0.22080E-07	543679.2	3757222.4	324.6	0.00	1.70	0.76	YES
L0049282	0	0.22080E-07	543679.1	3757226.0	324.7	0.00	1.70	0.76	YES
L0049283	0	0.22080E-07	543679.1	3757229.7	324.8	0.00	1.70	0.76	YES
L0049284	0	0.22080E-07	543679.1	3757233.4	324.8	0.00	1.70	0.76	YES
L0049285	0	0.22080E-07	543679.0	3757237.0	324.9	0.00	1.70	0.76	YES
L0049286	0	0.22080E-07	543679.0	3757240.7	325.0	0.00	1.70	0.76	YES
L0049287	0	0.22080E-07	543678.9	3757244.3	325.0	0.00	1.70	0.76	YES
L0049288	0	0.22080E-07	543678.9	3757248.0	325.1	0.00	1.70	0.76	YES
L0049289	0	0.22080E-07	543678.9	3757251.6	325.2	0.00	1.70	0.76	YES
L0049290	0	0.22080E-07	543678.8	3757255.3	325.2	0.00	1.70	0.76	YES
L0049291	0	0.22080E-07	543678.8	3757259.0	325.3	0.00	1.70	0.76	YES
L0049292	0	0.22080E-07	543678.8	3757262.6	325.4	0.00	1.70	0.76	YES
L0049293	0	0.41410E-07	543676.1	3753932.2	262.4	0.00	1.70	0.76	YES
L0049294	0	0.41410E-07	543679.7	3753932.2	262.4	0.00	1.70	0.76	YES
L0049295	0	0.41410E-07	543683.4	3753932.2	262.4	0.00	1.70	0.76	YES
L0049296	0	0.41410E-07	543687.0	3753932.2	262.4	0.00	1.70	0.76	YES
L0049297	0	0.41410E-07	543690.7	3753932.3	262.4	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049298	0	0.41410E-07	543694.3	3753932.3	262.4	0.00	1.70	0.76	YES	
L0049299	0	0.41410E-07	543698.0	3753932.3	262.4	0.00	1.70	0.76	YES	
L0049300	0	0.41410E-07	543701.7	3753932.3	262.4	0.00	1.70	0.76	YES	
L0049301	0	0.41410E-07	543705.3	3753932.3	262.4	0.00	1.70	0.76	YES	
L0049302	0	0.41410E-07	543709.0	3753932.3	262.4	0.00	1.70	0.76	YES	
L0049303	0	0.41410E-07	543712.6	3753932.3	262.3	0.00	1.70	0.76	YES	
L0049304	0	0.41410E-07	543716.3	3753932.3	262.3	0.00	1.70	0.76	YES	
L0049305	0	0.41410E-07	543719.9	3753932.3	262.3	0.00	1.70	0.76	YES	
L0049306	0	0.41410E-07	543723.6	3753932.4	262.3	0.00	1.70	0.76	YES	
L0049307	0	0.41410E-07	543727.3	3753932.4	262.3	0.00	1.70	0.76	YES	
L0049308	0	0.41410E-07	543730.9	3753932.4	262.3	0.00	1.70	0.76	YES	
L0049309	0	0.41410E-07	543734.6	3753932.4	262.3	0.00	1.70	0.76	YES	
L0049310	0	0.41410E-07	543738.2	3753932.4	262.3	0.00	1.70	0.76	YES	
L0049311	0	0.41410E-07	543741.9	3753932.4	262.3	0.00	1.70	0.76	YES	

L0049312	0	0.41410E-07	543745.5	3753932.4	262.2	0.00	1.70	0.76	YES	
L0049313	0	0.41410E-07	543749.2	3753932.4	262.2	0.00	1.70	0.76	YES	
L0049314	0	0.41410E-07	543752.9	3753932.4	262.2	0.00	1.70	0.76	YES	
L0049315	0	0.41410E-07	543756.5	3753932.5	262.2	0.00	1.70	0.76	YES	
L0049316	0	0.41410E-07	543760.2	3753932.5	262.2	0.00	1.70	0.76	YES	
L0049317	0	0.41410E-07	543763.8	3753932.5	262.2	0.00	1.70	0.76	YES	
L0049318	0	0.41410E-07	543767.5	3753932.5	262.2	0.00	1.70	0.76	YES	
L0049319	0	0.41410E-07	543771.2	3753932.5	262.2	0.00	1.70	0.76	YES	
L0049320	0	0.41410E-07	543774.8	3753932.5	262.2	0.00	1.70	0.76	YES	
L0049321	0	0.41410E-07	543778.5	3753932.5	262.2	0.00	1.70	0.76	YES	
L0049322	0	0.41410E-07	543782.1	3753932.5	262.2	0.00	1.70	0.76	YES	
L0049323	0	0.41410E-07	543785.8	3753932.5	262.1	0.00	1.70	0.76	YES	
L0049324	0	0.41410E-07	543789.4	3753932.5	262.1	0.00	1.70	0.76	YES	
L0049325	0	0.41410E-07	543793.1	3753932.6	262.1	0.00	1.70	0.76	YES	
L0049326	0	0.41410E-07	543796.8	3753932.6	262.1	0.00	1.70	0.76	YES	
L0049327	0	0.41410E-07	543800.4	3753932.6	262.1	0.00	1.70	0.76	YES	
L0049328	0	0.41410E-07	543804.1	3753932.6	262.1	0.00	1.70	0.76	YES	
L0049329	0	0.41410E-07	543807.7	3753932.6	262.0	0.00	1.70	0.76	YES	
L0049330	0	0.41410E-07	543811.4	3753932.6	262.0	0.00	1.70	0.76	YES	
L0049331	0	0.41410E-07	543815.0	3753932.6	262.0	0.00	1.70	0.76	YES	
L0049332	0	0.41410E-07	543818.7	3753932.6	262.0	0.00	1.70	0.76	YES	
L0049333	0	0.41410E-07	543822.4	3753932.6	262.0	0.00	1.70	0.76	YES	
L0049334	0	0.41410E-07	543826.0	3753932.7	262.0	0.00	1.70	0.76	YES	
L0049335	0	0.41410E-07	543829.7	3753932.7	262.0	0.00	1.70	0.76	YES	
L0049336	0	0.41410E-07	543833.3	3753932.7	261.9	0.00	1.70	0.76	YES	
L0049337	0	0.41410E-07	543837.0	3753932.7	261.9	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049338	0	0.41410E-07	543840.6	3753932.7	261.9	0.00	1.70	0.76	YES	
L0049339	0	0.41410E-07	543844.3	3753932.7	261.9	0.00	1.70	0.76	YES	
L0049340	0	0.41410E-07	543848.0	3753932.7	261.9	0.00	1.70	0.76	YES	
L0049341	0	0.41410E-07	543851.6	3753932.7	261.9	0.00	1.70	0.76	YES	
L0049342	0	0.41410E-07	543855.3	3753932.7	261.9	0.00	1.70	0.76	YES	
L0049343	0	0.41410E-07	543858.9	3753932.8	261.8	0.00	1.70	0.76	YES	
L0049344	0	0.41410E-07	543862.6	3753932.8	261.8	0.00	1.70	0.76	YES	
L0049345	0	0.41410E-07	543866.2	3753932.8	261.8	0.00	1.70	0.76	YES	
L0049346	0	0.41410E-07	543869.9	3753932.8	261.8	0.00	1.70	0.76	YES	
L0049347	0	0.41410E-07	543873.6	3753932.8	261.7	0.00	1.70	0.76	YES	
L0049348	0	0.41410E-07	543877.2	3753932.8	261.7	0.00	1.70	0.76	YES	

L0049349	0	0.41410E-07	543880.9	3753932.8	261.7	0.00	1.70	0.76	YES	
L0049350	0	0.41410E-07	543884.5	3753932.8	261.7	0.00	1.70	0.76	YES	
L0049351	0	0.41410E-07	543888.2	3753932.8	261.6	0.00	1.70	0.76	YES	
L0049352	0	0.41410E-07	543891.9	3753932.9	261.6	0.00	1.70	0.76	YES	
L0049353	0	0.41410E-07	543895.5	3753932.9	261.6	0.00	1.70	0.76	YES	
L0049354	0	0.41410E-07	543899.2	3753932.9	261.6	0.00	1.70	0.76	YES	
L0049355	0	0.41410E-07	543902.8	3753932.9	261.5	0.00	1.70	0.76	YES	
L0049356	0	0.41410E-07	543906.5	3753932.9	261.5	0.00	1.70	0.76	YES	
L0049357	0	0.41410E-07	543910.1	3753932.9	261.5	0.00	1.70	0.76	YES	
L0049358	0	0.41410E-07	543913.8	3753932.9	261.4	0.00	1.70	0.76	YES	
L0049359	0	0.41410E-07	543917.5	3753932.9	261.4	0.00	1.70	0.76	YES	
L0049360	0	0.41410E-07	543921.1	3753932.9	261.4	0.00	1.70	0.76	YES	
L0049361	0	0.41410E-07	543924.8	3753932.9	261.4	0.00	1.70	0.76	YES	
L0049362	0	0.41410E-07	543928.4	3753933.0	261.4	0.00	1.70	0.76	YES	
L0049363	0	0.41410E-07	543932.1	3753933.0	261.4	0.00	1.70	0.76	YES	
L0049364	0	0.41410E-07	543935.7	3753933.0	261.3	0.00	1.70	0.76	YES	
L0049365	0	0.41410E-07	543939.4	3753933.0	261.3	0.00	1.70	0.76	YES	
L0049366	0	0.41410E-07	543943.1	3753933.0	261.3	0.00	1.70	0.76	YES	
L0049367	0	0.41410E-07	543946.7	3753933.0	261.3	0.00	1.70	0.76	YES	
L0049368	0	0.41410E-07	543950.4	3753933.0	261.2	0.00	1.70	0.76	YES	
L0049369	0	0.41410E-07	543954.0	3753933.0	261.2	0.00	1.70	0.76	YES	
L0049370	0	0.41410E-07	543957.7	3753933.0	261.2	0.00	1.70	0.76	YES	
L0049371	0	0.41410E-07	543961.3	3753933.1	261.1	0.00	1.70	0.76	YES	
L0049372	0	0.41410E-07	543965.0	3753933.1	261.1	0.00	1.70	0.76	YES	
L0049373	0	0.41410E-07	543968.7	3753933.1	261.1	0.00	1.70	0.76	YES	
L0049374	0	0.41410E-07	543972.3	3753933.1	261.0	0.00	1.70	0.76	YES	
L0049375	0	0.41410E-07	543976.0	3753933.1	261.0	0.00	1.70	0.76	YES	
L0049376	0	0.41410E-07	543979.6	3753933.1	261.0	0.00	1.70	0.76	YES	
L0049377	0	0.41410E-07	543983.3	3753933.1	261.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049378	0	0.41410E-07	543986.9	3753933.1	261.0	0.00	1.70	0.76	YES	
L0049379	0	0.41410E-07	543990.6	3753933.1	261.0	0.00	1.70	0.76	YES	
L0049380	0	0.41410E-07	543994.3	3753933.2	261.0	0.00	1.70	0.76	YES	
L0049381	0	0.41410E-07	543997.9	3753933.2	261.0	0.00	1.70	0.76	YES	
L0049382	0	0.41410E-07	544001.6	3753933.2	261.0	0.00	1.70	0.76	YES	
L0049383	0	0.41410E-07	544005.2	3753933.2	260.9	0.00	1.70	0.76	YES	
L0049384	0	0.41410E-07	544008.9	3753933.2	260.9	0.00	1.70	0.76	YES	
L0049385	0	0.41410E-07	544012.6	3753933.2	260.9	0.00	1.70	0.76	YES	

L0049386	0	0.41410E-07	544016.2	3753933.2	260.8	0.00	1.70	0.76	YES
L0049387	0	0.41410E-07	544019.9	3753933.2	260.8	0.00	1.70	0.76	YES
L0049388	0	0.41410E-07	544023.5	3753933.2	260.8	0.00	1.70	0.76	YES
L0049389	0	0.41410E-07	544027.2	3753933.3	260.8	0.00	1.70	0.76	YES
L0049390	0	0.41410E-07	544030.8	3753933.3	260.8	0.00	1.70	0.76	YES
L0049391	0	0.41410E-07	544034.5	3753933.3	260.7	0.00	1.70	0.76	YES
L0049392	0	0.41410E-07	544038.2	3753933.3	260.7	0.00	1.70	0.76	YES
L0049393	0	0.41410E-07	544041.8	3753933.3	260.7	0.00	1.70	0.76	YES
L0049394	0	0.41410E-07	544045.5	3753933.3	260.7	0.00	1.70	0.76	YES
L0049395	0	0.41410E-07	544049.1	3753933.3	260.7	0.00	1.70	0.76	YES
L0049396	0	0.41410E-07	544052.8	3753933.3	260.7	0.00	1.70	0.76	YES
L0049397	0	0.41410E-07	544056.4	3753933.3	260.7	0.00	1.70	0.76	YES
L0049398	0	0.41410E-07	544060.1	3753933.3	260.7	0.00	1.70	0.76	YES
L0049399	0	0.41410E-07	544063.8	3753933.4	260.7	0.00	1.70	0.76	YES
L0049400	0	0.41410E-07	544067.4	3753933.4	260.7	0.00	1.70	0.76	YES
L0049401	0	0.41410E-07	544071.1	3753933.4	260.7	0.00	1.70	0.76	YES
L0049402	0	0.41410E-07	544074.7	3753933.4	260.7	0.00	1.70	0.76	YES
L0049403	0	0.41410E-07	544078.4	3753933.4	260.7	0.00	1.70	0.76	YES
L0049404	0	0.41410E-07	544082.0	3753933.4	260.7	0.00	1.70	0.76	YES
L0049405	0	0.41410E-07	544085.7	3753933.4	260.7	0.00	1.70	0.76	YES
L0049406	0	0.41410E-07	544089.4	3753933.4	260.7	0.00	1.70	0.76	YES
L0049407	0	0.41410E-07	544093.0	3753933.4	260.7	0.00	1.70	0.76	YES
L0049408	0	0.41410E-07	544096.7	3753933.5	260.7	0.00	1.70	0.76	YES
L0049409	0	0.41410E-07	544100.3	3753933.5	260.6	0.00	1.70	0.76	YES
L0049410	0	0.41410E-07	544104.0	3753933.5	260.6	0.00	1.70	0.76	YES
L0049411	0	0.41410E-07	544107.6	3753933.5	260.6	0.00	1.70	0.76	YES
L0049412	0	0.41410E-07	544111.3	3753933.5	260.5	0.00	1.70	0.76	YES
L0049413	0	0.41410E-07	544115.0	3753933.5	260.5	0.00	1.70	0.76	YES
L0049414	0	0.41410E-07	544118.6	3753933.5	260.5	0.00	1.70	0.76	YES
L0049415	0	0.41410E-07	544122.3	3753933.5	260.4	0.00	1.70	0.76	YES
L0049416	0	0.41410E-07	544125.9	3753933.5	260.5	0.00	1.70	0.76	YES
L0049417	0	0.41410E-07	544129.6	3753933.6	260.5	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049418	0	0.41410E-07	544133.3	3753933.6	260.5	0.00	1.70	0.76	YES	
L0049419	0	0.41410E-07	544136.9	3753933.6	260.5	0.00	1.70	0.76	YES	
L0049420	0	0.41410E-07	544140.6	3753933.6	260.5	0.00	1.70	0.76	YES	
L0049421	0	0.41410E-07	544144.2	3753933.6	260.5	0.00	1.70	0.76	YES	
L0049422	0	0.41410E-07	544147.9	3753933.6	260.5	0.00	1.70	0.76	YES	

L0049423	0	0.41410E-07	544151.5	3753933.6	260.5	0.00	1.70	0.76	YES	
L0049424	0	0.41410E-07	544155.2	3753933.6	260.5	0.00	1.70	0.76	YES	
L0049425	0	0.41410E-07	544158.9	3753933.6	260.4	0.00	1.70	0.76	YES	
L0049426	0	0.41410E-07	544162.5	3753933.7	260.4	0.00	1.70	0.76	YES	
L0049427	0	0.41410E-07	544166.2	3753933.7	260.4	0.00	1.70	0.76	YES	
L0049428	0	0.41410E-07	544169.8	3753933.7	260.4	0.00	1.70	0.76	YES	
L0049429	0	0.41410E-07	544173.5	3753933.7	260.4	0.00	1.70	0.76	YES	
L0049430	0	0.41410E-07	544177.1	3753933.7	260.4	0.00	1.70	0.76	YES	
L0049431	0	0.41410E-07	544180.8	3753933.7	260.4	0.00	1.70	0.76	YES	
L0049432	0	0.41410E-07	544184.5	3753933.7	260.4	0.00	1.70	0.76	YES	
L0049433	0	0.41410E-07	544188.1	3753933.7	260.3	0.00	1.70	0.76	YES	
L0049434	0	0.41410E-07	544191.8	3753933.7	260.3	0.00	1.70	0.76	YES	
L0049435	0	0.41410E-07	544195.4	3753933.8	260.3	0.00	1.70	0.76	YES	
L0049436	0	0.41410E-07	544199.1	3753933.8	260.3	0.00	1.70	0.76	YES	
L0049437	0	0.41410E-07	544202.7	3753933.8	260.3	0.00	1.70	0.76	YES	
L0049438	0	0.41410E-07	544206.4	3753933.8	260.3	0.00	1.70	0.76	YES	
L0049439	0	0.41410E-07	544210.1	3753933.8	260.3	0.00	1.70	0.76	YES	
L0049440	0	0.41410E-07	544213.7	3753933.8	260.3	0.00	1.70	0.76	YES	
L0049441	0	0.41410E-07	544217.4	3753933.8	260.3	0.00	1.70	0.76	YES	
L0049442	0	0.41410E-07	544221.0	3753933.8	260.3	0.00	1.70	0.76	YES	
L0049443	0	0.41410E-07	544224.7	3753933.8	260.3	0.00	1.70	0.76	YES	
L0049444	0	0.41410E-07	544228.3	3753933.8	260.3	0.00	1.70	0.76	YES	
L0049445	0	0.41410E-07	544232.0	3753933.9	260.3	0.00	1.70	0.76	YES	
L0049446	0	0.41410E-07	544235.7	3753933.9	260.3	0.00	1.70	0.76	YES	
L0049447	0	0.41410E-07	544239.3	3753933.9	260.3	0.00	1.70	0.76	YES	
L0049448	0	0.41410E-07	544243.0	3753933.9	260.2	0.00	1.70	0.76	YES	
L0049449	0	0.41410E-07	544246.6	3753933.9	260.2	0.00	1.70	0.76	YES	
L0049450	0	0.41410E-07	544250.3	3753933.9	260.2	0.00	1.70	0.76	YES	
L0049451	0	0.41410E-07	544254.0	3753933.9	260.2	0.00	1.70	0.76	YES	
L0049452	0	0.41410E-07	544257.6	3753933.9	260.2	0.00	1.70	0.76	YES	
L0049453	0	0.41410E-07	544261.3	3753933.9	260.2	0.00	1.70	0.76	YES	
L0049454	0	0.41410E-07	544264.9	3753934.0	260.2	0.00	1.70	0.76	YES	
L0049455	0	0.41410E-07	544268.6	3753934.0	260.2	0.00	1.70	0.76	YES	
L0049456	0	0.41410E-07	544272.2	3753934.0	260.2	0.00	1.70	0.76	YES	
L0049457	0	0.41410E-07	544275.9	3753934.0	260.1	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049458	0	0.41410E-07	544279.6	3753934.0	260.1	0.00	1.70	0.76	YES	
L0049459	0	0.41410E-07	544283.2	3753934.0	260.1	0.00	1.70	0.76	YES	

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L0049460         0   0.41410E-07  544286.9 3753934.0   260.1     0.00     1.70     0.76     YES
L0049461         0   0.41410E-07  544290.5 3753934.0   260.1     0.00     1.70     0.76     YES
L0049462         0   0.41410E-07  544294.2 3753934.0   260.1     0.00     1.70     0.76     YES
L0049463         0   0.41410E-07  544297.8 3753934.1   260.0     0.00     1.70     0.76     YES
L0049464         0   0.41410E-07  544301.5 3753934.1   260.0     0.00     1.70     0.76     YES
L0049465         0   0.41410E-07  544305.2 3753934.1   260.0     0.00     1.70     0.76     YES
L0049466         0   0.41410E-07  544308.8 3753934.1   260.0     0.00     1.70     0.76     YES
L0049467         0   0.41410E-07  544312.5 3753934.1   260.0     0.00     1.70     0.76     YES
L0049468         0   0.41410E-07  544316.1 3753934.1   259.9     0.00     1.70     0.76     YES
L0049469         0   0.41410E-07  544319.8 3753934.1   259.9     0.00     1.70     0.76     YES
L0049470         0   0.41410E-07  544323.4 3753934.1   259.9     0.00     1.70     0.76     YES
L0049471         0   0.41410E-07  544327.1 3753934.1   259.9     0.00     1.70     0.76     YES
L0049472         0   0.41410E-07  544330.8 3753934.2   259.9     0.00     1.70     0.76     YES
L0049473         0   0.41410E-07  544334.4 3753934.2   259.9     0.00     1.70     0.76     YES
L0049474         0   0.41410E-07  544338.1 3753934.2   259.8     0.00     1.70     0.76     YES
L0049475         0   0.41410E-07  544341.7 3753934.2   259.8     0.00     1.70     0.76     YES
L0049476         0   0.41410E-07  544345.4 3753934.2   259.8     0.00     1.70     0.76     YES
L0049477         0   0.41410E-07  544349.0 3753934.2   259.8     0.00     1.70     0.76     YES
L0049478         0   0.41410E-07  544352.7 3753934.2   259.8     0.00     1.70     0.76     YES
L0049479         0   0.41410E-07  544356.4 3753934.2   259.8     0.00     1.70     0.76     YES
L0049480         0   0.41410E-07  544360.0 3753934.2   259.8     0.00     1.70     0.76     YES
L0049481         0   0.41410E-07  544363.7 3753934.2   259.8     0.00     1.70     0.76     YES
L0049482         0   0.41410E-07  544367.3 3753934.3   259.8     0.00     1.70     0.76     YES
L0049483         0   0.41410E-07  544371.0 3753934.3   259.7     0.00     1.70     0.76     YES
L0049484         0   0.41410E-07  544374.7 3753934.3   259.7     0.00     1.70     0.76     YES
L0049485         0   0.41410E-07  544378.3 3753934.3   259.7     0.00     1.70     0.76     YES
L0049486         0   0.41410E-07  544382.0 3753934.3   259.7     0.00     1.70     0.76     YES
L0049487         0   0.41410E-07  544385.6 3753934.3   259.7     0.00     1.70     0.76     YES
L0049488         0   0.41410E-07  544389.3 3753934.3   259.7     0.00     1.70     0.76     YES
L0049489         0   0.41410E-07  544392.9 3753934.3   259.6     0.00     1.70     0.76     YES
L0049490         0   0.41410E-07  544396.6 3753934.3   259.6     0.00     1.70     0.76     YES
L0049491         0   0.41410E-07  544400.3 3753934.4   259.6     0.00     1.70     0.76     YES
L0049492         0   0.41410E-07  544403.9 3753934.4   259.6     0.00     1.70     0.76     YES
L0049493         0   0.41410E-07  544407.6 3753934.4   259.6     0.00     1.70     0.76     YES
L0049494         0   0.41410E-07  544411.2 3753934.4   259.5     0.00     1.70     0.76     YES
L0049495         0   0.41410E-07  544414.9 3753934.4   259.5     0.00     1.70     0.76     YES
L0049496         0   0.41410E-07  544418.5 3753934.4   259.5     0.00     1.70     0.76     YES
L0049497         0   0.41410E-07  544422.2 3753934.4   259.5     0.00     1.70     0.76     YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY

L0049498	0	0.41410E-07	544425.9	3753934.4	259.5	0.00	1.70	0.76	YES
L0049499	0	0.41410E-07	544429.5	3753934.4	259.4	0.00	1.70	0.76	YES
L0049500	0	0.41410E-07	544433.2	3753934.5	259.4	0.00	1.70	0.76	YES
L0049501	0	0.41410E-07	544436.8	3753934.5	259.4	0.00	1.70	0.76	YES
L0049502	0	0.41410E-07	544440.5	3753934.5	259.4	0.00	1.70	0.76	YES
L0049503	0	0.41410E-07	544444.1	3753934.5	259.4	0.00	1.70	0.76	YES
L0049504	0	0.41410E-07	544447.8	3753934.5	259.4	0.00	1.70	0.76	YES
L0049505	0	0.41410E-07	544451.5	3753934.5	259.4	0.00	1.70	0.76	YES
L0049506	0	0.41410E-07	544455.1	3753934.5	259.4	0.00	1.70	0.76	YES
L0049507	0	0.41410E-07	544458.8	3753934.5	259.4	0.00	1.70	0.76	YES
L0049508	0	0.41410E-07	544462.4	3753934.5	259.3	0.00	1.70	0.76	YES
L0049509	0	0.41410E-07	544466.1	3753934.6	259.3	0.00	1.70	0.76	YES
L0049510	0	0.41410E-07	544469.7	3753934.6	259.3	0.00	1.70	0.76	YES
L0049511	0	0.41410E-07	544473.4	3753934.6	259.3	0.00	1.70	0.76	YES
L0049512	0	0.41410E-07	544477.1	3753934.6	259.3	0.00	1.70	0.76	YES
L0049513	0	0.41410E-07	544480.7	3753934.6	259.2	0.00	1.70	0.76	YES
L0049514	0	0.41410E-07	544484.4	3753934.6	259.2	0.00	1.70	0.76	YES
L0049515	0	0.41410E-07	544488.0	3753934.6	259.2	0.00	1.70	0.76	YES
L0049516	0	0.41410E-07	544491.7	3753934.6	259.2	0.00	1.70	0.76	YES
L0049517	0	0.41410E-07	544495.4	3753934.6	259.2	0.00	1.70	0.76	YES
L0049518	0	0.41410E-07	544499.0	3753934.6	259.2	0.00	1.70	0.76	YES
L0049519	0	0.41410E-07	544502.7	3753934.7	259.2	0.00	1.70	0.76	YES
L0049520	0	0.41410E-07	544506.3	3753934.7	259.1	0.00	1.70	0.76	YES
L0049521	0	0.41410E-07	544510.0	3753934.7	259.1	0.00	1.70	0.76	YES
L0049522	0	0.41410E-07	544513.6	3753934.7	259.1	0.00	1.70	0.76	YES
L0049523	0	0.41410E-07	544517.3	3753934.7	259.1	0.00	1.70	0.76	YES
L0049524	0	0.41410E-07	544521.0	3753934.7	259.1	0.00	1.70	0.76	YES
L0049525	0	0.41410E-07	544524.6	3753934.7	259.0	0.00	1.70	0.76	YES
L0049526	0	0.41410E-07	544528.3	3753934.7	259.0	0.00	1.70	0.76	YES
L0049527	0	0.41410E-07	544531.9	3753934.7	259.0	0.00	1.70	0.76	YES
L0049528	0	0.41410E-07	544535.6	3753934.8	259.0	0.00	1.70	0.76	YES
L0049529	0	0.41410E-07	544539.2	3753934.8	259.0	0.00	1.70	0.76	YES
L0049530	0	0.41410E-07	544542.9	3753934.8	258.9	0.00	1.70	0.76	YES
L0049531	0	0.41410E-07	544546.6	3753934.8	258.9	0.00	1.70	0.76	YES
L0049532	0	0.41410E-07	544550.2	3753934.8	258.9	0.00	1.70	0.76	YES
L0049533	0	0.41410E-07	544553.9	3753934.8	258.9	0.00	1.70	0.76	YES
L0049534	0	0.41410E-07	544557.5	3753934.8	258.9	0.00	1.70	0.76	YES
L0049535	0	0.41410E-07	544561.2	3753934.8	258.9	0.00	1.70	0.76	YES
L0049536	0	0.41410E-07	544564.8	3753934.8	258.8	0.00	1.70	0.76	YES
L0049537	0	0.41410E-07	544568.5	3753934.9	258.8	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER	EMISSION RATE	BASE	RELEASE	INIT.	INIT.	URBAN	EMISSION RATE

SOURCE ID	PART. CATS.	(GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE	SCALAR VARY BY
L0049538	0	0.41410E-07	544572.2	3753934.9	258.8	0.00	1.70	0.76	YES	
L0049539	0	0.41410E-07	544575.8	3753934.9	258.8	0.00	1.70	0.76	YES	
L0049540	0	0.41410E-07	544579.5	3753934.9	258.8	0.00	1.70	0.76	YES	
L0049541	0	0.41410E-07	544583.1	3753934.9	258.7	0.00	1.70	0.76	YES	
L0049542	0	0.41410E-07	544586.8	3753934.9	258.7	0.00	1.70	0.76	YES	
L0049543	0	0.41410E-07	544590.4	3753934.9	258.7	0.00	1.70	0.76	YES	
L0049544	0	0.41410E-07	544594.1	3753934.9	258.7	0.00	1.70	0.76	YES	
L0049545	0	0.41410E-07	544597.8	3753934.9	258.7	0.00	1.70	0.76	YES	
L0049546	0	0.41410E-07	544601.4	3753935.0	258.7	0.00	1.70	0.76	YES	
L0049547	0	0.41410E-07	544605.1	3753935.0	258.7	0.00	1.70	0.76	YES	
L0049548	0	0.41410E-07	544608.7	3753935.0	258.7	0.00	1.70	0.76	YES	
L0049549	0	0.41410E-07	544612.4	3753935.0	258.6	0.00	1.70	0.76	YES	
L0049550	0	0.41410E-07	544616.1	3753935.0	258.6	0.00	1.70	0.76	YES	
L0049551	0	0.41410E-07	544619.7	3753935.0	258.6	0.00	1.70	0.76	YES	
L0049552	0	0.41410E-07	544623.4	3753935.0	258.6	0.00	1.70	0.76	YES	
L0049553	0	0.41410E-07	544627.0	3753935.0	258.6	0.00	1.70	0.76	YES	
L0049554	0	0.41410E-07	544630.7	3753935.0	258.6	0.00	1.70	0.76	YES	
L0049555	0	0.41410E-07	544634.3	3753935.1	258.5	0.00	1.70	0.76	YES	
L0049556	0	0.41410E-07	544638.0	3753935.1	258.5	0.00	1.70	0.76	YES	
L0049557	0	0.41410E-07	544641.7	3753935.1	258.5	0.00	1.70	0.76	YES	
L0049558	0	0.41410E-07	544645.3	3753935.1	258.5	0.00	1.70	0.76	YES	
L0049559	0	0.41410E-07	544649.0	3753935.1	258.5	0.00	1.70	0.76	YES	
L0049560	0	0.41410E-07	544652.6	3753935.1	258.5	0.00	1.70	0.76	YES	
L0049561	0	0.41410E-07	544656.3	3753935.1	258.5	0.00	1.70	0.76	YES	
L0049562	0	0.41410E-07	544659.9	3753935.1	258.5	0.00	1.70	0.76	YES	
L0049563	0	0.41410E-07	544663.6	3753935.1	258.4	0.00	1.70	0.76	YES	
L0049564	0	0.41410E-07	544667.3	3753935.1	258.4	0.00	1.70	0.76	YES	
L0049565	0	0.41410E-07	544670.9	3753935.2	258.4	0.00	1.70	0.76	YES	
L0049566	0	0.41410E-07	544674.6	3753935.2	258.4	0.00	1.70	0.76	YES	
L0049567	0	0.41410E-07	544678.2	3753935.2	258.4	0.00	1.70	0.76	YES	
L0049568	0	0.41410E-07	544681.9	3753935.2	258.4	0.00	1.70	0.76	YES	
L0049569	0	0.41410E-07	544685.5	3753935.2	258.4	0.00	1.70	0.76	YES	
L0049570	0	0.41410E-07	544689.2	3753935.2	258.3	0.00	1.70	0.76	YES	
L0049571	0	0.41410E-07	544692.9	3753935.2	258.3	0.00	1.70	0.76	YES	
L0049572	0	0.41410E-07	544696.5	3753935.2	258.3	0.00	1.70	0.76	YES	
L0049573	0	0.41410E-07	544700.2	3753935.2	258.3	0.00	1.70	0.76	YES	
L0049574	0	0.41410E-07	544703.8	3753935.3	258.3	0.00	1.70	0.76	YES	
L0049575	0	0.41410E-07	544707.5	3753935.3	258.3	0.00	1.70	0.76	YES	
L0049576	0	0.41410E-07	544711.1	3753935.3	258.3	0.00	1.70	0.76	YES	
L0049577	0	0.41410E-07	544714.8	3753935.3	258.2	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049578	0	0.41410E-07	544718.5	3753935.3	258.2	0.00	1.70	0.76	YES	
L0049579	0	0.41410E-07	544722.1	3753935.3	258.2	0.00	1.70	0.76	YES	
L0049580	0	0.41410E-07	544725.8	3753935.3	258.2	0.00	1.70	0.76	YES	
L0049581	0	0.41410E-07	544729.4	3753935.3	258.2	0.00	1.70	0.76	YES	
L0049582	0	0.41410E-07	544733.1	3753935.3	258.2	0.00	1.70	0.76	YES	
L0049583	0	0.41410E-07	544736.8	3753935.4	258.2	0.00	1.70	0.76	YES	
L0049584	0	0.41410E-07	544740.4	3753935.4	258.2	0.00	1.70	0.76	YES	
L0049585	0	0.41410E-07	544744.1	3753935.4	258.2	0.00	1.70	0.76	YES	
L0049586	0	0.41410E-07	544747.7	3753935.4	258.2	0.00	1.70	0.76	YES	
L0049587	0	0.41410E-07	544751.4	3753935.4	258.1	0.00	1.70	0.76	YES	
L0049588	0	0.41410E-07	544755.0	3753935.4	258.1	0.00	1.70	0.76	YES	
L0049589	0	0.41410E-07	544758.7	3753935.4	258.1	0.00	1.70	0.76	YES	
L0049590	0	0.41410E-07	544762.4	3753935.4	258.1	0.00	1.70	0.76	YES	
L0049591	0	0.41410E-07	544766.0	3753935.4	258.1	0.00	1.70	0.76	YES	
L0049592	0	0.41410E-07	544769.7	3753935.5	258.1	0.00	1.70	0.76	YES	
L0049593	0	0.41410E-07	544773.3	3753935.5	258.1	0.00	1.70	0.76	YES	
L0049594	0	0.41410E-07	544777.0	3753935.5	258.1	0.00	1.70	0.76	YES	
L0049595	0	0.41410E-07	544780.6	3753935.5	258.1	0.00	1.70	0.76	YES	
L0049596	0	0.41410E-07	544784.3	3753935.5	258.1	0.00	1.70	0.76	YES	
L0049597	0	0.41410E-07	544788.0	3753935.5	258.1	0.00	1.70	0.76	YES	
L0049598	0	0.41410E-07	544791.6	3753935.5	258.1	0.00	1.70	0.76	YES	
L0049599	0	0.41410E-07	544795.3	3753935.5	258.0	0.00	1.70	0.76	YES	
L0049600	0	0.41410E-07	544798.9	3753935.5	258.0	0.00	1.70	0.76	YES	
L0049601	0	0.41410E-07	544802.6	3753935.5	258.0	0.00	1.70	0.76	YES	
L0049602	0	0.41410E-07	544806.2	3753935.6	258.0	0.00	1.70	0.76	YES	
L0049603	0	0.41410E-07	544809.9	3753935.6	258.0	0.00	1.70	0.76	YES	
L0049604	0	0.41410E-07	544813.6	3753935.6	258.0	0.00	1.70	0.76	YES	
L0049605	0	0.41410E-07	544817.2	3753935.6	258.0	0.00	1.70	0.76	YES	
L0049606	0	0.41410E-07	544820.9	3753935.6	258.0	0.00	1.70	0.76	YES	
L0049607	0	0.41410E-07	544824.5	3753935.6	258.0	0.00	1.70	0.76	YES	
L0049608	0	0.41410E-07	544828.2	3753935.6	258.0	0.00	1.70	0.76	YES	
L0049609	0	0.41410E-07	544831.8	3753935.6	258.0	0.00	1.70	0.76	YES	
L0049610	0	0.41410E-07	544835.5	3753935.6	258.0	0.00	1.70	0.76	YES	
L0049611	0	0.41410E-07	544839.2	3753935.7	257.9	0.00	1.70	0.76	YES	
L0049612	0	0.41410E-07	544842.8	3753935.7	257.9	0.00	1.70	0.76	YES	
L0049613	0	0.41410E-07	544846.5	3753935.7	257.9	0.00	1.70	0.76	YES	
L0049614	0	0.41410E-07	544850.1	3753935.7	257.9	0.00	1.70	0.76	YES	
L0049615	0	0.41410E-07	544853.8	3753935.7	257.9	0.00	1.70	0.76	YES	
L0049616	0	0.41410E-07	544857.5	3753935.7	257.9	0.00	1.70	0.76	YES	
L0049617	0	0.41410E-07	544861.1	3753935.7	257.9	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049618	0	0.41410E-07	544864.8	3753935.7	257.9	0.00	1.70	0.76	YES	
L0049619	0	0.41410E-07	544868.4	3753935.7	257.9	0.00	1.70	0.76	YES	
L0049620	0	0.41410E-07	544872.1	3753935.8	257.9	0.00	1.70	0.76	YES	
L0049621	0	0.41410E-07	544875.7	3753935.8	257.9	0.00	1.70	0.76	YES	
L0049622	0	0.41410E-07	544879.4	3753935.8	257.9	0.00	1.70	0.76	YES	
L0049623	0	0.41410E-07	544883.1	3753935.8	257.9	0.00	1.70	0.76	YES	
L0049624	0	0.41410E-07	544886.7	3753935.8	257.9	0.00	1.70	0.76	YES	
L0049625	0	0.41410E-07	544890.4	3753935.8	257.9	0.00	1.70	0.76	YES	
L0049626	0	0.41410E-07	544894.0	3753935.8	257.9	0.00	1.70	0.76	YES	
L0049627	0	0.41410E-07	544897.7	3753935.8	257.9	0.00	1.70	0.76	YES	
L0049628	0	0.41410E-07	544901.3	3753935.8	257.8	0.00	1.70	0.76	YES	
L0049629	0	0.41410E-07	544905.0	3753935.9	257.8	0.00	1.70	0.76	YES	
L0049630	0	0.41410E-07	544908.7	3753935.9	257.8	0.00	1.70	0.76	YES	
L0049631	0	0.41410E-07	544912.3	3753935.9	257.8	0.00	1.70	0.76	YES	
L0049632	0	0.41410E-07	544916.0	3753935.9	257.8	0.00	1.70	0.76	YES	
L0049633	0	0.41410E-07	544919.6	3753935.9	257.8	0.00	1.70	0.76	YES	
L0049634	0	0.41410E-07	544923.3	3753935.9	257.8	0.00	1.70	0.76	YES	
L0049635	0	0.41410E-07	544926.9	3753935.9	257.8	0.00	1.70	0.76	YES	
L0049636	0	0.41410E-07	544930.6	3753935.9	257.8	0.00	1.70	0.76	YES	
L0049637	0	0.41410E-07	544934.3	3753935.9	257.8	0.00	1.70	0.76	YES	
L0049638	0	0.41410E-07	544937.9	3753935.9	257.8	0.00	1.70	0.76	YES	
L0049639	0	0.41410E-07	544941.6	3753936.0	257.8	0.00	1.70	0.76	YES	
L0049640	0	0.41410E-07	544945.2	3753936.0	257.8	0.00	1.70	0.76	YES	
L0049641	0	0.41410E-07	544948.9	3753936.0	257.8	0.00	1.70	0.76	YES	
L0049642	0	0.41410E-07	544952.6	3753936.0	257.8	0.00	1.70	0.76	YES	
L0049643	0	0.41410E-07	544956.2	3753936.0	257.7	0.00	1.70	0.76	YES	
L0049644	0	0.41410E-07	544959.9	3753936.0	257.7	0.00	1.70	0.76	YES	
L0049645	0	0.41410E-07	544963.5	3753936.0	257.7	0.00	1.70	0.76	YES	
L0049646	0	0.41410E-07	544967.2	3753936.0	257.7	0.00	1.70	0.76	YES	
L0049647	0	0.41410E-07	544970.8	3753936.0	257.7	0.00	1.70	0.76	YES	
L0049648	0	0.41410E-07	544974.5	3753936.1	257.7	0.00	1.70	0.76	YES	
L0049649	0	0.41410E-07	544978.2	3753936.1	257.7	0.00	1.70	0.76	YES	
L0049650	0	0.41410E-07	544981.8	3753936.1	257.7	0.00	1.70	0.76	YES	
L0049651	0	0.41410E-07	544985.5	3753936.1	257.7	0.00	1.70	0.76	YES	
L0049652	0	0.41410E-07	544989.1	3753936.1	257.7	0.00	1.70	0.76	YES	
L0049653	0	0.41410E-07	544992.8	3753936.1	257.7	0.00	1.70	0.76	YES	
L0049654	0	0.41410E-07	544996.4	3753936.1	257.7	0.00	1.70	0.76	YES	
L0049655	0	0.41410E-07	545000.1	3753936.1	257.7	0.00	1.70	0.76	YES	
L0049656	0	0.41410E-07	545003.8	3753936.1	257.7	0.00	1.70	0.76	YES	
L0049657	0	0.41410E-07	545007.4	3753936.2	257.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049658	0	0.41410E-07	545011.1	3753936.2	257.7	0.00	1.70	0.76	YES	
L0049659	0	0.41410E-07	545014.7	3753936.2	257.7	0.00	1.70	0.76	YES	
L0049660	0	0.41410E-07	545018.4	3753936.2	257.7	0.00	1.70	0.76	YES	
L0049661	0	0.41410E-07	545022.0	3753936.2	257.7	0.00	1.70	0.76	YES	
L0049662	0	0.41410E-07	545025.7	3753936.2	257.7	0.00	1.70	0.76	YES	
L0049663	0	0.41410E-07	545029.4	3753936.2	257.7	0.00	1.70	0.76	YES	
L0049664	0	0.41410E-07	545033.0	3753936.2	257.7	0.00	1.70	0.76	YES	
L0049665	0	0.41410E-07	545036.7	3753936.2	257.6	0.00	1.70	0.76	YES	
L0049666	0	0.41410E-07	545040.3	3753936.3	257.6	0.00	1.70	0.76	YES	
L0049667	0	0.41410E-07	545044.0	3753936.3	257.6	0.00	1.70	0.76	YES	
L0049668	0	0.41410E-07	545047.6	3753936.3	257.6	0.00	1.70	0.76	YES	
L0049669	0	0.41410E-07	545051.3	3753936.3	257.6	0.00	1.70	0.76	YES	
L0049670	0	0.41410E-07	545055.0	3753936.3	257.6	0.00	1.70	0.76	YES	
L0049671	0	0.41410E-07	545058.6	3753936.3	257.6	0.00	1.70	0.76	YES	
L0049672	0	0.41410E-07	545062.3	3753936.3	257.6	0.00	1.70	0.76	YES	
L0049673	0	0.41410E-07	545065.9	3753936.3	257.6	0.00	1.70	0.76	YES	
L0049674	0	0.41410E-07	545069.6	3753936.3	257.6	0.00	1.70	0.76	YES	
L0049675	0	0.41410E-07	545073.2	3753936.3	257.6	0.00	1.70	0.76	YES	
L0049676	0	0.41410E-07	545076.9	3753936.4	257.6	0.00	1.70	0.76	YES	
L0049677	0	0.41410E-07	545080.6	3753936.4	257.6	0.00	1.70	0.76	YES	
L0049678	0	0.41410E-07	545084.2	3753936.4	257.6	0.00	1.70	0.76	YES	
L0049679	0	0.41410E-07	545087.9	3753936.4	257.6	0.00	1.70	0.76	YES	
L0049680	0	0.41410E-07	545091.5	3753936.4	257.5	0.00	1.70	0.76	YES	
L0049681	0	0.41410E-07	545095.2	3753936.4	257.5	0.00	1.70	0.76	YES	
L0049682	0	0.41410E-07	545098.9	3753936.4	257.5	0.00	1.70	0.76	YES	
L0049683	0	0.41410E-07	545102.5	3753936.4	257.5	0.00	1.70	0.76	YES	
L0049684	0	0.41410E-07	545106.2	3753936.4	257.5	0.00	1.70	0.76	YES	
L0049685	0	0.41410E-07	545109.8	3753936.5	257.5	0.00	1.70	0.76	YES	
L0049686	0	0.41410E-07	545113.5	3753936.5	257.5	0.00	1.70	0.76	YES	
L0049687	0	0.41410E-07	545117.1	3753936.5	257.5	0.00	1.70	0.76	YES	
L0049688	0	0.41410E-07	545120.8	3753936.5	257.5	0.00	1.70	0.76	YES	
L0049689	0	0.41410E-07	545124.5	3753936.5	257.5	0.00	1.70	0.76	YES	
L0049690	0	0.41410E-07	545128.1	3753936.5	257.5	0.00	1.70	0.76	YES	
L0049691	0	0.41410E-07	545131.8	3753936.5	257.5	0.00	1.70	0.76	YES	
L0049692	0	0.41410E-07	545135.4	3753936.5	257.4	0.00	1.70	0.76	YES	
L0049693	0	0.41410E-07	545139.1	3753936.5	257.4	0.00	1.70	0.76	YES	
L0049694	0	0.41410E-07	545142.7	3753936.6	257.4	0.00	1.70	0.76	YES	
L0049695	0	0.41410E-07	545146.4	3753936.6	257.4	0.00	1.70	0.76	YES	

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L0049696         0   0.41410E-07  545150.1 3753936.6   257.4     0.00     1.70     0.76     YES
L0049697         0   0.41410E-07  545153.7 3753936.6   257.4     0.00     1.70     0.76     YES

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 1st 14 yr                      ***        05/24/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 1st 14 yr                             ***        20:34:00
                                                                                                                  PAGE  93
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

             NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.   URBAN  EMISSION RATE
  SOURCE      PART.  (GRAMS/SEC)     X         Y      ELEV.   HEIGHT      SY       SZ     SOURCE  SCALAR VARY
    ID        CATS.                (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)             BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

L0049698         0   0.41410E-07  545157.4 3753936.6   257.4     0.00     1.70     0.76     YES
L0049699         0   0.41410E-07  545161.0 3753936.6   257.4     0.00     1.70     0.76     YES
L0049700         0   0.41410E-07  545164.7 3753936.6   257.3     0.00     1.70     0.76     YES
L0049701         0   0.41410E-07  545168.3 3753936.6   257.3     0.00     1.70     0.76     YES
L0049702         0   0.41410E-07  545172.0 3753936.6   257.3     0.00     1.70     0.76     YES
L0049703         0   0.41410E-07  545175.7 3753936.7   257.3     0.00     1.70     0.76     YES
L0049704         0   0.41410E-07  545179.3 3753936.7   257.3     0.00     1.70     0.76     YES
L0049705         0   0.41410E-07  545183.0 3753936.7   257.2     0.00     1.70     0.76     YES
L0049706         0   0.41410E-07  545186.6 3753936.7   257.2     0.00     1.70     0.76     YES
L0049707         0   0.41410E-07  545190.3 3753936.7   257.2     0.00     1.70     0.76     YES
L0049708         0   0.41410E-07  545194.0 3753936.7   257.2     0.00     1.70     0.76     YES
L0049709         0   0.41410E-07  545197.6 3753936.7   257.2     0.00     1.70     0.76     YES
L0049710         0   0.41410E-07  545201.3 3753936.7   257.2     0.00     1.70     0.76     YES
L0049711         0   0.41410E-07  545204.9 3753936.7   257.1     0.00     1.70     0.76     YES
L0049712         0   0.41410E-07  545208.6 3753936.8   257.1     0.00     1.70     0.76     YES
L0049713         0   0.41410E-07  545212.2 3753936.8   257.0     0.00     1.70     0.76     YES
L0049714         0   0.41410E-07  545215.9 3753936.8   257.0     0.00     1.70     0.76     YES
L0049715         0   0.41410E-07  545219.6 3753936.8   257.0     0.00     1.70     0.76     YES
L0049716         0   0.41410E-07  545223.2 3753936.8   256.9     0.00     1.70     0.76     YES
L0049717         0   0.41410E-07  545226.9 3753936.8   256.9     0.00     1.70     0.76     YES
L0049718         0   0.41410E-07  545230.5 3753936.8   256.9     0.00     1.70     0.76     YES
L0049719         0   0.41410E-07  545234.2 3753936.8   256.8     0.00     1.70     0.76     YES
L0049720         0   0.41410E-07  545237.8 3753936.8   256.8     0.00     1.70     0.76     YES
L0049721         0   0.41410E-07  545241.5 3753936.8   256.7     0.00     1.70     0.76     YES
L0049722         0   0.41410E-07  545245.2 3753936.9   256.7     0.00     1.70     0.76     YES
L0049723         0   0.41410E-07  545248.8 3753936.9   256.6     0.00     1.70     0.76     YES
L0049724         0   0.41410E-07  545252.5 3753936.9   256.6     0.00     1.70     0.76     YES
L0049725         0   0.41410E-07  545256.1 3753936.9   256.6     0.00     1.70     0.76     YES
L0049726         0   0.41410E-07  545259.8 3753936.9   256.5     0.00     1.70     0.76     YES
L0049727         0   0.41410E-07  545263.4 3753936.9   256.5     0.00     1.70     0.76     YES
L0049728         0   0.41410E-07  545267.1 3753936.9   256.4     0.00     1.70     0.76     YES
L0049729         0   0.41410E-07  545270.8 3753936.9   256.4     0.00     1.70     0.76     YES
L0049730         0   0.41410E-07  545274.4 3753936.9   256.4     0.00     1.70     0.76     YES
L0049731         0   0.41410E-07  545278.1 3753937.0   256.3     0.00     1.70     0.76     YES
L0049732         0   0.41410E-07  545281.7 3753937.0   256.3     0.00     1.70     0.76     YES
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L0049733	0	0.41410E-07	545285.4	3753937.0	256.2	0.00	1.70	0.76	YES	
L0049734	0	0.41410E-07	545289.0	3753937.0	256.2	0.00	1.70	0.76	YES	
L0049735	0	0.41410E-07	545292.7	3753937.0	256.2	0.00	1.70	0.76	YES	
L0049736	0	0.41410E-07	545296.4	3753937.0	256.1	0.00	1.70	0.76	YES	
L0049737	0	0.41410E-07	545300.0	3753937.0	256.1	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049738	0	0.41410E-07	545303.7	3753937.0	256.1	0.00	1.70	0.76	YES	
L0049739	0	0.41410E-07	545307.3	3753937.0	256.0	0.00	1.70	0.76	YES	
L0049740	0	0.41410E-07	545311.0	3753937.1	256.0	0.00	1.70	0.76	YES	
L0049741	0	0.41410E-07	545314.7	3753937.1	256.0	0.00	1.70	0.76	YES	
L0049742	0	0.41410E-07	545318.3	3753937.1	255.9	0.00	1.70	0.76	YES	
L0049743	0	0.41410E-07	545322.0	3753937.1	255.9	0.00	1.70	0.76	YES	
L0049744	0	0.41410E-07	545325.6	3753937.1	255.9	0.00	1.70	0.76	YES	
L0049745	0	0.41410E-07	545329.3	3753937.1	255.8	0.00	1.70	0.76	YES	
L0049746	0	0.41410E-07	545332.9	3753937.1	255.8	0.00	1.70	0.76	YES	
L0049747	0	0.41410E-07	545336.6	3753937.1	255.8	0.00	1.70	0.76	YES	
L0049748	0	0.41410E-07	545340.3	3753937.1	255.8	0.00	1.70	0.76	YES	
L0049749	0	0.41410E-07	545343.9	3753937.2	255.8	0.00	1.70	0.76	YES	
L0049750	0	0.41410E-07	545347.6	3753937.2	255.8	0.00	1.70	0.76	YES	
L0049751	0	0.41410E-07	545351.2	3753937.2	255.8	0.00	1.70	0.76	YES	
L0049752	0	0.41410E-07	545354.9	3753937.2	255.8	0.00	1.70	0.76	YES	
L0049753	0	0.41410E-07	545358.5	3753937.2	255.8	0.00	1.70	0.76	YES	
L0049754	0	0.41410E-07	545362.2	3753937.2	255.8	0.00	1.70	0.76	YES	
L0049755	0	0.41410E-07	545365.9	3753937.2	255.8	0.00	1.70	0.76	YES	
L0049756	0	0.41410E-07	545369.5	3753937.2	255.8	0.00	1.70	0.76	YES	
L0049757	0	0.41410E-07	545373.2	3753937.2	255.8	0.00	1.70	0.76	YES	
L0049758	0	0.41410E-07	545376.8	3753937.2	255.8	0.00	1.70	0.76	YES	
L0049759	0	0.41410E-07	545380.5	3753937.3	255.8	0.00	1.70	0.76	YES	
L0049760	0	0.41410E-07	545384.1	3753937.3	255.8	0.00	1.70	0.76	YES	
L0049761	0	0.41410E-07	545387.8	3753937.3	255.8	0.00	1.70	0.76	YES	
L0049762	0	0.41410E-07	545391.5	3753937.3	255.8	0.00	1.70	0.76	YES	
L0049763	0	0.41410E-07	545395.1	3753937.3	255.8	0.00	1.70	0.76	YES	
L0049764	0	0.41410E-07	545398.8	3753937.3	255.8	0.00	1.70	0.76	YES	
L0049765	0	0.41410E-07	545402.4	3753937.3	255.8	0.00	1.70	0.76	YES	
L0049766	0	0.41410E-07	545406.1	3753937.3	255.8	0.00	1.70	0.76	YES	
L0049767	0	0.41410E-07	545409.7	3753937.3	255.8	0.00	1.70	0.76	YES	
L0049768	0	0.41410E-07	545413.4	3753937.4	255.7	0.00	1.70	0.76	YES	
L0049769	0	0.41410E-07	545417.1	3753937.4	255.7	0.00	1.70	0.76	YES	

L0049770	0	0.41410E-07	545420.7	3753937.4	255.7	0.00	1.70	0.76	YES	
L0049771	0	0.41410E-07	545424.4	3753937.4	255.7	0.00	1.70	0.76	YES	
L0049772	0	0.41410E-07	545428.0	3753937.4	255.7	0.00	1.70	0.76	YES	
L0049773	0	0.41410E-07	545431.7	3753937.4	255.7	0.00	1.70	0.76	YES	
L0049774	0	0.41410E-07	545435.4	3753937.4	255.7	0.00	1.70	0.76	YES	
L0049775	0	0.41410E-07	545439.0	3753937.4	255.7	0.00	1.70	0.76	YES	
L0049776	0	0.41410E-07	545442.7	3753937.4	255.7	0.00	1.70	0.76	YES	
L0049777	0	0.41410E-07	545446.3	3753937.5	255.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049778	0	0.41410E-07	545450.0	3753937.5	255.7	0.00	1.70	0.76	YES	
L0049779	0	0.41410E-07	545453.6	3753937.5	255.7	0.00	1.70	0.76	YES	
L0049780	0	0.41410E-07	545457.3	3753937.5	255.7	0.00	1.70	0.76	YES	
L0049781	0	0.41410E-07	545461.0	3753937.5	255.7	0.00	1.70	0.76	YES	
L0049782	0	0.41410E-07	545464.6	3753937.5	255.6	0.00	1.70	0.76	YES	
L0049783	0	0.41410E-07	545468.3	3753937.5	255.6	0.00	1.70	0.76	YES	
L0049784	0	0.41410E-07	545471.9	3753937.5	255.6	0.00	1.70	0.76	YES	
L0049785	0	0.41410E-07	545475.6	3753937.5	255.6	0.00	1.70	0.76	YES	
L0049786	0	0.41410E-07	545479.2	3753937.6	255.6	0.00	1.70	0.76	YES	
L0049787	0	0.41410E-07	545482.9	3753937.6	255.6	0.00	1.70	0.76	YES	
L0049788	0	0.41410E-07	545486.6	3753937.6	255.6	0.00	1.70	0.76	YES	
L0049789	0	0.41410E-07	545490.2	3753937.6	255.6	0.00	1.70	0.76	YES	
L0049790	0	0.41410E-07	545493.9	3753937.6	255.6	0.00	1.70	0.76	YES	
L0049791	0	0.41410E-07	545497.5	3753937.6	255.6	0.00	1.70	0.76	YES	
L0049792	0	0.41410E-07	545501.2	3753937.6	255.5	0.00	1.70	0.76	YES	
L0049793	0	0.41410E-07	545504.8	3753937.6	255.5	0.00	1.70	0.76	YES	
L0049794	0	0.41410E-07	545508.5	3753937.6	255.5	0.00	1.70	0.76	YES	
L0049795	0	0.41410E-07	545512.2	3753937.6	255.5	0.00	1.70	0.76	YES	
L0049796	0	0.41410E-07	545515.8	3753937.7	255.5	0.00	1.70	0.76	YES	
L0049797	0	0.41410E-07	545519.5	3753937.7	255.5	0.00	1.70	0.76	YES	
L0049798	0	0.41410E-07	545523.1	3753937.7	255.5	0.00	1.70	0.76	YES	
L0049799	0	0.41410E-07	545526.8	3753937.7	255.4	0.00	1.70	0.76	YES	
L0049800	0	0.41410E-07	545530.4	3753937.7	255.4	0.00	1.70	0.76	YES	
L0049801	0	0.41410E-07	545534.1	3753937.7	255.4	0.00	1.70	0.76	YES	
L0049802	0	0.41410E-07	545537.8	3753937.7	255.4	0.00	1.70	0.76	YES	
L0049803	0	0.41410E-07	545541.4	3753937.7	255.4	0.00	1.70	0.76	YES	
L0049804	0	0.41410E-07	545545.1	3753937.7	255.4	0.00	1.70	0.76	YES	
L0049805	0	0.41410E-07	545548.7	3753937.8	255.4	0.00	1.70	0.76	YES	
L0049806	0	0.41410E-07	545552.4	3753937.8	255.4	0.00	1.70	0.76	YES	

L0049807	0	0.41410E-07	545556.1	3753937.8	255.3	0.00	1.70	0.76	YES
L0049808	0	0.41410E-07	545559.7	3753937.8	255.3	0.00	1.70	0.76	YES
L0049809	0	0.41410E-07	545563.4	3753937.8	255.3	0.00	1.70	0.76	YES
L0049810	0	0.41410E-07	545567.0	3753937.8	255.3	0.00	1.70	0.76	YES
L0049811	0	0.41410E-07	545570.7	3753937.8	255.3	0.00	1.70	0.76	YES
L0049812	0	0.41410E-07	545574.3	3753937.8	255.3	0.00	1.70	0.76	YES
L0049813	0	0.41410E-07	545578.0	3753937.8	255.2	0.00	1.70	0.76	YES
L0049814	0	0.41410E-07	545581.7	3753937.9	255.2	0.00	1.70	0.76	YES
L0049815	0	0.41410E-07	545585.3	3753937.9	255.2	0.00	1.70	0.76	YES
L0049816	0	0.41410E-07	545589.0	3753937.9	255.2	0.00	1.70	0.76	YES
L0049817	0	0.41410E-07	545592.6	3753937.9	255.2	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049818	0	0.41410E-07	545596.3	3753937.9	255.2	0.00	1.70	0.76	YES	
L0049819	0	0.41410E-07	545599.9	3753937.9	255.2	0.00	1.70	0.76	YES	
L0049820	0	0.41410E-07	545603.6	3753937.9	255.2	0.00	1.70	0.76	YES	
L0049821	0	0.41410E-07	545607.3	3753937.9	255.1	0.00	1.70	0.76	YES	
L0049822	0	0.41410E-07	545610.9	3753937.9	255.1	0.00	1.70	0.76	YES	
L0049823	0	0.41410E-07	545614.6	3753938.0	255.1	0.00	1.70	0.76	YES	
L0049824	0	0.41410E-07	545618.2	3753938.0	255.1	0.00	1.70	0.76	YES	
L0049825	0	0.41410E-07	545621.9	3753938.0	255.1	0.00	1.70	0.76	YES	
L0049826	0	0.41410E-07	545625.5	3753938.0	255.1	0.00	1.70	0.76	YES	
L0049827	0	0.41410E-07	545629.2	3753938.0	255.1	0.00	1.70	0.76	YES	
L0049828	0	0.41410E-07	545632.9	3753938.0	255.0	0.00	1.70	0.76	YES	
L0049829	0	0.41410E-07	545636.5	3753938.0	255.0	0.00	1.70	0.76	YES	
L0049830	0	0.41410E-07	545640.2	3753938.0	255.0	0.00	1.70	0.76	YES	
L0049831	0	0.41410E-07	545643.8	3753938.0	255.0	0.00	1.70	0.76	YES	
L0049832	0	0.41410E-07	545647.5	3753938.1	254.9	0.00	1.70	0.76	YES	
L0049833	0	0.41410E-07	545651.1	3753938.1	254.9	0.00	1.70	0.76	YES	
L0049834	0	0.41410E-07	545654.8	3753938.1	254.9	0.00	1.70	0.76	YES	
L0049835	0	0.41410E-07	545658.5	3753938.1	254.9	0.00	1.70	0.76	YES	
L0049836	0	0.41410E-07	545662.1	3753938.1	254.8	0.00	1.70	0.76	YES	
L0049837	0	0.41410E-07	545665.8	3753938.1	254.8	0.00	1.70	0.76	YES	
L0049838	0	0.41410E-07	545669.4	3753938.1	254.8	0.00	1.70	0.76	YES	
L0049839	0	0.41410E-07	545673.1	3753938.1	254.8	0.00	1.70	0.76	YES	
L0049840	0	0.41410E-07	545676.8	3753938.1	254.7	0.00	1.70	0.76	YES	
L0049841	0	0.41410E-07	545680.4	3753938.1	254.7	0.00	1.70	0.76	YES	
L0049842	0	0.41410E-07	545684.1	3753938.2	254.7	0.00	1.70	0.76	YES	
L0049843	0	0.41410E-07	545687.7	3753938.2	254.7	0.00	1.70	0.76	YES	

L0049844	0	0.41410E-07	545691.4	3753938.2	254.6	0.00	1.70	0.76	YES
L0049845	0	0.41410E-07	545695.0	3753938.2	254.6	0.00	1.70	0.76	YES
L0049846	0	0.41410E-07	545698.7	3753938.2	254.6	0.00	1.70	0.76	YES
L0049847	0	0.41410E-07	545702.4	3753938.2	254.6	0.00	1.70	0.76	YES
L0049848	0	0.41410E-07	545706.0	3753938.2	254.5	0.00	1.70	0.76	YES
L0049849	0	0.41410E-07	545709.7	3753938.2	254.5	0.00	1.70	0.76	YES
L0049850	0	0.41410E-07	545713.3	3753938.2	254.5	0.00	1.70	0.76	YES
L0049851	0	0.41410E-07	545717.0	3753938.3	254.5	0.00	1.70	0.76	YES
L0049852	0	0.41410E-07	545720.6	3753938.3	254.5	0.00	1.70	0.76	YES
L0049853	0	0.41410E-07	545724.3	3753938.3	254.4	0.00	1.70	0.76	YES
L0049854	0	0.41410E-07	545728.0	3753938.3	254.4	0.00	1.70	0.76	YES
L0049855	0	0.41410E-07	545731.6	3753938.3	254.4	0.00	1.70	0.76	YES
L0049856	0	0.41410E-07	545735.3	3753938.3	254.4	0.00	1.70	0.76	YES
L0049857	0	0.41410E-07	545738.9	3753938.3	254.3	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049858	0	0.41410E-07	545742.6	3753938.3	254.3	0.00	1.70	0.76	YES	
L0049859	0	0.41410E-07	545746.2	3753938.3	254.3	0.00	1.70	0.76	YES	
L0049860	0	0.41410E-07	545749.9	3753938.4	254.2	0.00	1.70	0.76	YES	
L0049861	0	0.41410E-07	545753.6	3753938.4	254.2	0.00	1.70	0.76	YES	
L0049862	0	0.41410E-07	545757.2	3753938.4	254.2	0.00	1.70	0.76	YES	
L0049863	0	0.41410E-07	545760.9	3753938.4	254.2	0.00	1.70	0.76	YES	
L0049864	0	0.41410E-07	545764.5	3753938.4	254.1	0.00	1.70	0.76	YES	
L0049865	0	0.41410E-07	545768.2	3753938.4	254.1	0.00	1.70	0.76	YES	
L0049866	0	0.41410E-07	545771.8	3753938.4	254.1	0.00	1.70	0.76	YES	
L0049867	0	0.41410E-07	545775.5	3753938.4	254.0	0.00	1.70	0.76	YES	
L0049868	0	0.41410E-07	545779.2	3753938.4	254.0	0.00	1.70	0.76	YES	
L0049869	0	0.41410E-07	545782.8	3753938.5	254.0	0.00	1.70	0.76	YES	
L0049870	0	0.41410E-07	545786.5	3753938.5	254.0	0.00	1.70	0.76	YES	
L0049871	0	0.41410E-07	545790.1	3753938.5	253.9	0.00	1.70	0.76	YES	
L0049872	0	0.41410E-07	545793.8	3753938.5	253.9	0.00	1.70	0.76	YES	
L0049873	0	0.41410E-07	545797.5	3753938.5	253.9	0.00	1.70	0.76	YES	
L0049874	0	0.41410E-07	545801.1	3753938.5	253.8	0.00	1.70	0.76	YES	
L0049875	0	0.41410E-07	545804.8	3753938.5	253.8	0.00	1.70	0.76	YES	
L0049876	0	0.41410E-07	545808.4	3753938.5	253.8	0.00	1.70	0.76	YES	
L0049877	0	0.41410E-07	545812.1	3753938.5	253.7	0.00	1.70	0.76	YES	
L0049878	0	0.41410E-07	545815.7	3753938.5	253.7	0.00	1.70	0.76	YES	
L0049879	0	0.41410E-07	545819.4	3753938.6	253.6	0.00	1.70	0.76	YES	
L0049880	0	0.41410E-07	545823.1	3753938.6	253.6	0.00	1.70	0.76	YES	

L0049881	0	0.41410E-07	545826.7	3753938.6	253.5	0.00	1.70	0.76	YES	
L0049882	0	0.41410E-07	545830.4	3753938.6	253.5	0.00	1.70	0.76	YES	
L0049883	0	0.41410E-07	545834.0	3753938.6	253.4	0.00	1.70	0.76	YES	
L0049884	0	0.41410E-07	545837.7	3753938.6	253.4	0.00	1.70	0.76	YES	
L0049885	0	0.41410E-07	545841.3	3753938.6	253.3	0.00	1.70	0.76	YES	
L0049886	0	0.41410E-07	545845.0	3753938.6	253.3	0.00	1.70	0.76	YES	
L0049887	0	0.41410E-07	545848.7	3753938.6	253.3	0.00	1.70	0.76	YES	
L0049888	0	0.41410E-07	545852.3	3753938.7	253.3	0.00	1.70	0.76	YES	
L0049889	0	0.41410E-07	545856.0	3753938.7	253.3	0.00	1.70	0.76	YES	
L0049890	0	0.41410E-07	545859.6	3753938.7	253.3	0.00	1.70	0.76	YES	
L0049891	0	0.41410E-07	545863.3	3753938.7	253.3	0.00	1.70	0.76	YES	
L0049892	0	0.41410E-07	545866.9	3753938.7	253.2	0.00	1.70	0.76	YES	
L0049893	0	0.41410E-07	545870.6	3753938.7	253.2	0.00	1.70	0.76	YES	
L0049894	0	0.41410E-07	545874.3	3753938.7	253.2	0.00	1.70	0.76	YES	
L0049895	0	0.41410E-07	545877.9	3753938.7	253.2	0.00	1.70	0.76	YES	
L0049896	0	0.41410E-07	545881.6	3753938.7	253.2	0.00	1.70	0.76	YES	
L0049897	0	0.41410E-07	545885.2	3753938.8	253.2	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049898	0	0.41410E-07	545888.9	3753938.8	253.1	0.00	1.70	0.76	YES	
L0049899	0	0.41410E-07	545892.5	3753938.8	253.1	0.00	1.70	0.76	YES	
L0049900	0	0.41410E-07	545896.2	3753938.8	253.1	0.00	1.70	0.76	YES	
L0049901	0	0.41410E-07	545899.9	3753938.8	253.0	0.00	1.70	0.76	YES	
L0049902	0	0.41410E-07	545903.5	3753938.8	253.0	0.00	1.70	0.76	YES	
L0049903	0	0.41410E-07	545907.2	3753938.8	252.9	0.00	1.70	0.76	YES	
L0049904	0	0.41410E-07	545910.8	3753938.8	252.9	0.00	1.70	0.76	YES	
L0049905	0	0.41410E-07	545914.5	3753938.8	252.8	0.00	1.70	0.76	YES	
L0049906	0	0.41410E-07	545918.2	3753938.9	252.8	0.00	1.70	0.76	YES	
L0049907	0	0.41410E-07	545921.8	3753938.9	252.7	0.00	1.70	0.76	YES	
L0049908	0	0.41410E-07	545925.5	3753938.9	252.7	0.00	1.70	0.76	YES	
L0049909	0	0.41410E-07	545929.1	3753938.9	252.7	0.00	1.70	0.76	YES	
L0049910	0	0.41410E-07	545932.8	3753938.9	252.6	0.00	1.70	0.76	YES	
L0049911	0	0.41410E-07	545936.4	3753938.9	252.6	0.00	1.70	0.76	YES	
L0049912	0	0.41410E-07	545940.1	3753938.9	252.6	0.00	1.70	0.76	YES	
L0049913	0	0.41410E-07	545943.8	3753938.9	252.5	0.00	1.70	0.76	YES	
L0049914	0	0.41410E-07	545947.4	3753938.9	252.5	0.00	1.70	0.76	YES	
L0049915	0	0.41410E-07	545951.1	3753938.9	252.5	0.00	1.70	0.76	YES	
L0049916	0	0.41410E-07	545954.7	3753939.0	252.4	0.00	1.70	0.76	YES	
L0049917	0	0.41410E-07	545958.4	3753939.0	252.4	0.00	1.70	0.76	YES	

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L0049918         0   0.41410E-07  545962.0 3753939.0   252.4     0.00     1.70     0.76     YES
L0049919         0   0.41410E-07  545965.7 3753939.0   252.4     0.00     1.70     0.76     YES
L0049920         0   0.41410E-07  545969.4 3753939.0   252.4     0.00     1.70     0.76     YES
L0049921         0   0.41410E-07  545973.0 3753939.0   252.3     0.00     1.70     0.76     YES
L0049922         0   0.41410E-07  545976.7 3753939.0   252.3     0.00     1.70     0.76     YES
L0049923         0   0.41410E-07  545980.3 3753939.0   252.2     0.00     1.70     0.76     YES
L0049924         0   0.41410E-07  545984.0 3753939.0   252.2     0.00     1.70     0.76     YES
L0049925         0   0.41410E-07  545987.6 3753939.1   252.2     0.00     1.70     0.76     YES
L0049926         0   0.41410E-07  545991.3 3753939.1   252.1     0.00     1.70     0.76     YES
L0049927         0   0.41410E-07  545995.0 3753939.1   252.1     0.00     1.70     0.76     YES
L0049928         0   0.41410E-07  545998.6 3753939.1   252.1     0.00     1.70     0.76     YES
L0049929         0   0.41410E-07  546002.3 3753939.1   252.1     0.00     1.70     0.76     YES
L0049930         0   0.41410E-07  546005.9 3753939.1   252.0     0.00     1.70     0.76     YES
L0049931         0   0.41410E-07  546009.6 3753939.1   252.0     0.00     1.70     0.76     YES
L0049932         0   0.41410E-07  546013.2 3753939.1   252.0     0.00     1.70     0.76     YES
L0049933         0   0.41410E-07  546016.9 3753939.1   252.0     0.00     1.70     0.76     YES
L0049934         0   0.41410E-07  546020.6 3753939.2   252.0     0.00     1.70     0.76     YES
L0049935         0   0.41410E-07  546024.2 3753939.2   252.0     0.00     1.70     0.76     YES
L0049936         0   0.41410E-07  546027.9 3753939.2   252.0     0.00     1.70     0.76     YES
L0049937         0   0.41410E-07  546031.5 3753939.2   252.0     0.00     1.70     0.76     YES

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 1st 14 yr                    ***        05/24/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 1st 14 yr                           ***        20:34:00
                                                                                                                PAGE  99
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** VOLUME SOURCE DATA ***

             NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.   URBAN  EMISSION RATE
  SOURCE      PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ     SOURCE  SCALAR VARY
    ID        CATS.              (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)             BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

L0049938         0   0.41410E-07  546035.2 3753939.2   251.9     0.00     1.70     0.76     YES
L0049939         0   0.41410E-07  546038.9 3753939.2   251.9     0.00     1.70     0.76     YES
L0049940         0   0.41410E-07  546042.5 3753939.2   251.9     0.00     1.70     0.76     YES
L0049941         0   0.41410E-07  546046.2 3753939.2   251.9     0.00     1.70     0.76     YES
L0049942         0   0.41410E-07  546049.8 3753939.2   251.9     0.00     1.70     0.76     YES
L0049943         0   0.41410E-07  546053.5 3753939.3   251.9     0.00     1.70     0.76     YES
L0049944         0   0.41410E-07  546057.1 3753939.3   251.9     0.00     1.70     0.76     YES

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 1st 14 yr                    ***        05/24/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 1st 14 yr                           ***        20:34:00
                                                                                                                PAGE 100
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                    *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID                                          SOURCE IDs
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 ALL        L0046098    , L0046099    , L0046100    , L0046101    , L0046102    , L0046103    , L0046104    , L0046105    ,
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID

SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID — SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0047718 , L0047719 , L0047720 , L0047721 , L0047722 , L0047723 , L0047724 , L0047725 ,
	L0047726 , L0047727 , L0047728 , L0047729 , L0047730 , L0047731 , L0047732 , L0047733 ,
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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           L0046494    , L0046495    , L0046496    , L0046497    , L0046498    , L0046499    , L0046500    , L0046501    ,
           L0046502    , L0046503    , L0046504    , L0046505    , L0046506    , L0046507    , L0046508    , L0046509    ,
           L0046510    , L0046511    , L0046512    , L0046513    , L0046514    , L0046515    , L0046516    , L0046517    ,
           L0046518    , L0046519    , L0046520    , L0046521    , L0046522    , L0046523    , L0046524    , L0046525    ,
           L0046526    , L0046527    , L0046528    , L0046529    , L0046530    , L0046531    , L0046532    , L0046533    ,
           L0046534    , L0046535    , L0046536    , L0046537    , L0046538    , L0046539    , L0046540    , L0046541    ,
           L0046542    , L0046543    , L0046544    , L0046545    , L0046546    , L0046547    , L0046548    , L0046549    ,
           L0046550    , L0046551    , L0046552    , L0046553    , L0046554    , L0046555    , L0046556    , L0046557    ,
           L0046558    , L0046559    , L0046560    , L0046561    , L0046562    , L0046563    , L0046564    , L0046565    ,
           L0046566    , L0046567    , L0046568    , L0046569    , L0046570    , L0046571    , L0046572    , L0046573    ,
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0046574 , L0046575 , L0046576 , L0046577 , L0046578 , L0046579 , L0046580 , L0046581 ,
L0046582 , L0046583 , L0046584 , L0046585 , L0046586 , L0046587 , L0046588 , L0046589 ,
L0046590 , L0046591 , L0046592 , L0046593 , L0046594 , L0046595 , L0046596 , L0046597 ,
L0046598 , L0046599 , L0046600 , L0046601 , L0046602 , L0046603 , L0046604 , L0046605 ,
L0046606 , L0046607 , L0046608 , L0046609 , L0046610 , L0046611 , L0046612 , L0046613 ,
L0046614 , L0046615 , L0046616 , L0046617 , L0046618 , L0046619 , L0046620 , L0046621 ,
L0046622 , L0046623 , L0046624 , L0046625 , L0046626 , L0046627 , L0046628 , L0046629 ,
L0046630 , L0046631 , L0046632 , L0046633 , L0046634 , L0046635 , L0046636 , L0046637 ,
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L0046646 , L0046647 , L0046648 , L0046649 , L0046650 , L0046651 , L0046652 , L0046653 ,
L0046654 , L0046655 , L0046656 , L0046657 , L0046658 , L0046659 , L0046660 , L0046661 ,
L0046662 , L0046663 , L0046664 , L0046665 , L0046666 , L0046667 , L0046668 , L0046669 ,
L0046670 , L0046671 , L0046672 , L0046673 , L0046674 , L0046675 , L0046676 , L0046677 ,
L0046678 , L0046679 , L0046680 , L0046681 , L0046682 , L0046683 , L0046684 , L0046685 ,
L0046686 , L0046687 , L0046688 , L0046689 , L0046690 , L0046691 , L0046692 , L0046693 ,
L0046694 , L0046695 , L0046696 , L0046697 , L0046698 , L0046699 , L0046700 , L0046701 ,
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L0046710 , L0046711 , L0046712 , L0046713 , L0046714 , L0046715 , L0046716 , L0046717 ,
L0046718 , L0046719 , L0046720 , L0046721 , L0046722 , L0046723 , L0046724 , L0046725 ,
L0046726 , L0046727 , L0046728 , L0046729 , L0046730 , L0046731 , L0046732 , L0046733 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID URBAN POP SOURCE IDs

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L0046734 , L0046735 , L0046736 , L0046737 , L0046738 , L0046739 , L0046740 , L0046741 ,
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L0046750 , L0046751 , L0046752 , L0046753 , L0046754 , L0046755 , L0046756 , L0046757 ,
L0046758 , L0046759 , L0046760 , L0046761 , L0046762 , L0046763 , L0046764 , L0046765 ,
L0046766 , L0046767 , L0046768 , L0046769 , L0046770 , L0046771 , L0046772 , L0046773 ,
L0046774 , L0046775 , L0046776 , L0046777 , L0046778 , L0046779 , L0046780 , L0046781 ,
L0046782 , L0046783 , L0046784 , L0046785 , L0046786 , L0046787 , L0046788 , L0046789 ,
L0046790 , L0046791 , L0046792 , L0046793 , L0046794 , L0046795 , L0046796 , L0046797 ,
L0046798 , L0046799 , L0046800 , L0046801 , L0046802 , L0046803 , L0046804 , L0046805 ,
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L0046814 , L0046815 , L0046816 , L0046817 , L0046818 , L0046819 , L0046820 , L0046821 ,
L0046822 , L0046823 , L0046824 , L0046825 , L0046826 , L0046827 , L0046828 , L0046829 ,
L0046830 , L0046831 , L0046832 , L0046833 , L0046834 , L0046835 , L0046836 , L0046837 ,
L0046838 , L0046839 , L0046840 , L0046841 , L0046842 , L0046843 , L0046844 , L0046845 ,
L0046846 , L0046847 , L0046848 , L0046849 , L0046850 , L0046851 , L0046852 , L0046853 ,
L0046854 , L0046855 , L0046856 , L0046857 , L0046858 , L0046859 , L0046860 , L0046861 ,
L0046862 , L0046863 , L0046864 , L0046865 , L0046866 , L0046867 , L0046868 , L0046869 ,
L0046870 , L0046871 , L0046872 , L0046873 , L0046874 , L0046875 , L0046876 , L0046877 ,
L0046878 , L0046879 , L0046880 , L0046881 , L0046882 , L0046883 , L0046884 , L0046885 ,
L0046886 , L0046887 , L0046888 , L0046889 , L0046890 , L0046891 , L0046892 , L0046893 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID   URBAN POP   SOURCE IDs
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L0046894 , L0046895 , L0046896 , L0046897 , L0046898 , L0046899 , L0046900 , L0046901 ,
L0046902 , L0046903 , L0046904 , L0046905 , L0046906 , L0046907 , L0046908 , L0046909 ,
L0046910 , L0046911 , L0046912 , L0046913 , L0046914 , L0046915 , L0046916 , L0046917 ,
L0046918 , L0046919 , L0046920 , L0046921 , L0046922 , L0046923 , L0046924 , L0046925 ,
L0046926 , L0046927 , L0046928 , L0046929 , L0046930 , L0046931 , L0046932 , L0046933 ,
L0046934 , L0046935 , L0046936 , L0046937 , L0046938 , L0046939 , L0046940 , L0046941 ,
L0046942 , L0046943 , L0046944 , L0046945 , L0046946 , L0046947 , L0046948 , L0046949 ,
L0046950 , L0046951 , L0046952 , L0046953 , L0046954 , L0046955 , L0046956 , L0046957 ,
L0046958 , L0046959 , L0046960 , L0046961 , L0046962 , L0046963 , L0046964 , L0046965 ,
L0046966 , L0046967 , L0046968 , L0046969 , L0046970 , L0046971 , L0046972 , L0046973 ,
L0046974 , L0046975 , L0046976 , L0046977 , L0046978 , L0046979 , L0046980 , L0046981 ,
L0046982 , L0046983 , L0046984 , L0046985 , L0046986 , L0046987 , L0046988 , L0046989 ,
L0046990 , L0046991 , L0046992 , L0046993 , L0046994 , L0046995 , L0046996 , L0046997 ,
L0046998 , L0046999 , L0047000 , L0047001 , L0047002 , L0047003 , L0047004 , L0047005 ,
L0047006 , L0047007 , L0047008 , L0047009 , L0047010 , L0047011 , L0047012 , L0047013 ,
L0047014 , L0047015 , L0047016 , L0047017 , L0047018 , L0047019 , L0047020 , L0047021 ,
L0047022 , L0047023 , L0047024 , L0047025 , L0047026 , L0047027 , L0047028 , L0047029 ,
L0047030 , L0047031 , L0047032 , L0047033 , L0047034 , L0047035 , L0047036 , L0047037 ,
L0047038 , L0047039 , L0047040 , L0047041 , L0047042 , L0047043 , L0047044 , L0047045 ,
L0047046 , L0047047 , L0047048 , L0047049 , L0047050 , L0047051 , L0047052 , L0047053 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0047054 , L0047055 , L0047056 , L0047057 , L0047058 , L0047059 , L0047060 , L0047061 ,
L0047062 , L0047063 , L0047064 , L0047065 , L0047066 , L0047067 , L0047068 , L0047069 ,
L0047070 , L0047071 , L0047072 , L0047073 , L0047074 , L0047075 , L0047076 , L0047077 ,
L0047078 , L0047079 , L0047080 , L0047081 , L0047082 , L0047083 , L0047084 , L0047085 ,
L0047086 , L0047087 , L0047088 , L0047089 , L0047090 , L0047091 , L0047092 , L0047093 ,
L0047094 , L0047095 , L0047096 , L0047097 , L0047098 , L0047099 , L0047100 , L0047101 ,
L0047102 , L0047103 , L0047104 , L0047105 , L0047106 , L0047107 , L0047108 , L0047109 ,
L0047110 , L0047111 , L0047112 , L0047113 , L0047114 , L0047115 , L0047116 , L0047117 ,
L0047118 , L0047119 , L0047120 , L0047121 , L0047122 , L0047123 , L0047124 , L0047125 ,
L0047126 , L0047127 , L0047128 , L0047129 , L0047130 , L0047131 , L0047132 , L0047133 ,
L0047134 , L0047135 , L0047136 , L0047137 , L0047138 , L0047139 , L0047140 , L0047141 ,
L0047142 , L0047143 , L0047144 , L0047145 , L0047146 , L0047147 , L0047148 , L0047149 ,
L0047150 , L0047151 , L0047152 , L0047153 , L0047154 , L0047155 , L0047156 , L0047157 ,
L0047158 , L0047159 , L0047160 , L0047161 , L0047162 , L0047163 , L0047164 , L0047165 ,
L0047166 , L0047167 , L0047168 , L0047169 , L0047170 , L0047171 , L0047172 , L0047173 ,
L0047174 , L0047175 , L0047176 , L0047177 , L0047178 , L0047179 , L0047180 , L0047181 ,
L0047182 , L0047183 , L0047184 , L0047185 , L0047186 , L0047187 , L0047188 , L0047189 ,
L0047190 , L0047191 , L0047192 , L0047193 , L0047194 , L0047195 , L0047196 , L0047197 ,
L0047198 , L0047199 , L0047200 , L0047201 , L0047202 , L0047203 , L0047204 , L0047205 ,
L0047206 , L0047207 , L0047208 , L0047209 , L0047210 , L0047211 , L0047212 , L0047213 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
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		L0047222 , L0047223 , L0047224 , L0047225 , L0047226 , L0047227 , L0047228 , L0047229 ,
		L0047230 , L0047231 , L0047232 , L0047233 , L0047234 , L0047235 , L0047236 , L0047237 ,
		L0047238 , L0047239 , L0047240 , L0047241 , L0047242 , L0047243 , L0047244 , L0047245 ,
		L0047246 , L0047247 , L0047248 , L0047249 , L0047250 , L0047251 , L0047252 , L0047253 ,
		L0047254 , L0047255 , L0047256 , L0047257 , L0047258 , L0047259 , L0047260 , L0047261 ,
		L0047262 , L0047263 , L0047264 , L0047265 , L0047266 , L0047267 , L0047268 , L0047269 ,
		L0047270 , L0047271 , L0047272 , L0047273 , L0047274 , L0047275 , L0047276 , L0047277 ,
		L0047278 , L0047279 , L0047280 , L0047281 , L0047282 , L0047283 , L0047284 , L0047285 ,
		L0047286 , L0047287 , L0047288 , L0047289 , L0047290 , L0047291 , L0047292 , L0047293 ,
		L0047294 , L0047295 , L0047296 , L0047297 , L0047298 , L0047299 , L0047300 , L0047301 ,
		L0047302 , L0047303 , L0047304 , L0047305 , L0047306 , L0047307 , L0047308 , L0047309 ,
		L0047310 , L0047311 , L0047312 , L0047313 , L0047314 , L0047315 , L0047316 , L0047317 ,
		L0047318 , L0047319 , L0047320 , L0047321 , L0047322 , L0047323 , L0047324 , L0047325 ,
		L0047326 , L0047327 , L0047328 , L0047329 , L0047330 , L0047331 , L0047332 , L0047333 ,
		L0047334 , L0047335 , L0047336 , L0047337 , L0047338 , L0047339 , L0047340 , L0047341 ,
		L0047342 , L0047343 , L0047344 , L0047345 , L0047346 , L0047347 , L0047348 , L0047349 ,
		L0047350 , L0047351 , L0047352 , L0047353 , L0047354 , L0047355 , L0047356 , L0047357 ,
		L0047358 , L0047359 , L0047360 , L0047361 , L0047362 , L0047363 , L0047364 , L0047365 ,
		L0047366 , L0047367 , L0047368 , L0047369 , L0047370 , L0047371 , L0047372 , L0047373 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0047374 , L0047375 , L0047376 , L0047377 , L0047378 , L0047379 , L0047380 , L0047381 ,
		L0047382 , L0047383 , L0047384 , L0047385 , L0047386 , L0047387 , L0047388 , L0047389 ,
		L0047390 , L0047391 , L0047392 , L0047393 , L0047394 , L0047395 , L0047396 , L0047397 ,
		L0047398 , L0047399 , L0047400 , L0047401 , L0047402 , L0047403 , L0047404 , L0047405 ,
		L0047406 , L0047407 , L0047408 , L0047409 , L0047410 , L0047411 , L0047412 , L0047413 ,
		L0047414 , L0047415 , L0047416 , L0047417 , L0047418 , L0047419 , L0047420 , L0047421 ,
		L0047422 , L0047423 , L0047424 , L0047425 , L0047426 , L0047427 , L0047428 , L0047429 ,
		L0047430 , L0047431 , L0047432 , L0047433 , L0047434 , L0047435 , L0047436 , L0047437 ,
		L0047438 , L0047439 , L0047440 , L0047441 , L0047442 , L0047443 , L0047444 , L0047445 ,
		L0047446 , L0047447 , L0047448 , L0047449 , L0047450 , L0047451 , L0047452 , L0047453 ,
		L0047454 , L0047455 , L0047456 , L0047457 , L0047458 , L0047459 , L0047460 , L0047461 ,
		L0047462 , L0047463 , L0047464 , L0047465 , L0047466 , L0047467 , L0047468 , L0047469 ,
		L0047470 , L0047471 , L0047472 , L0047473 , L0047474 , L0047475 , L0047476 , L0047477 ,
		L0047478 , L0047479 , L0047480 , L0047481 , L0047482 , L0047483 , L0047484 , L0047485 ,
		L0047486 , L0047487 , L0047488 , L0047489 , L0047490 , L0047491 , L0047492 , L0047493 ,
		L0047494 , L0047495 , L0047496 , L0047497 , L0047498 , L0047499 , L0047500 , L0047501 ,
		L0047502 , L0047503 , L0047504 , L0047505 , L0047506 , L0047507 , L0047508 , L0047509 ,
		L0047510 , L0047511 , L0047512 , L0047513 , L0047514 , L0047515 , L0047516 , L0047517 ,
		L0047518 , L0047519 , L0047520 , L0047521 , L0047522 , L0047523 , L0047524 , L0047525 ,
		L0047526 , L0047527 , L0047528 , L0047529 , L0047530 , L0047531 , L0047532 , L0047533 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0047534 , L0047535 , L0047536 , L0047537 , L0047538 , L0047539 , L0047540 , L0047541 ,
		L0047542 , L0047543 , L0047544 , L0047545 , L0047546 , L0047547 , L0047548 , L0047549 ,
		L0047550 , L0047551 , L0047552 , L0047553 , L0047554 , L0047555 , L0047556 , L0047557 ,
		L0047558 , L0047559 , L0047560 , L0047561 , L0047562 , L0047563 , L0047564 , L0047565 ,
		L0047566 , L0047567 , L0047568 , L0047569 , L0047570 , L0047571 , L0047572 , L0047573 ,
		L0047574 , L0047575 , L0047576 , L0047577 , L0047578 , L0047579 , L0047580 , L0047581 ,
		L0047582 , L0047583 , L0047584 , L0047585 , L0047586 , L0047587 , L0047588 , L0047589 ,
		L0047590 , L0047591 , L0047592 , L0047593 , L0047594 , L0047595 , L0047596 , L0047597 ,
		L0047598 , L0047599 , L0047600 , L0047601 , L0047602 , L0047603 , L0047604 , L0047605 ,
		L0047606 , L0047607 , L0047608 , L0047609 , L0047610 , L0047611 , L0047612 , L0047613 ,
		L0047614 , L0047615 , L0047616 , L0047617 , L0047618 , L0047619 , L0047620 , L0047621 ,
		L0047622 , L0047623 , L0047624 , L0047625 , L0047626 , L0047627 , L0047628 , L0047629 ,
		L0047630 , L0047631 , L0047632 , L0047633 , L0047634 , L0047635 , L0047636 , L0047637 ,
		L0047638 , L0047639 , L0047640 , L0047641 , L0047642 , L0047643 , L0047644 , L0047645 ,
		L0047646 , L0047647 , L0047648 , L0047649 , L0047650 , L0047651 , L0047652 , L0047653 ,
		L0047654 , L0047655 , L0047656 , L0047657 , L0047658 , L0047659 , L0047660 , L0047661 ,
		L0047662 , L0047663 , L0047664 , L0047665 , L0047666 , L0047667 , L0047668 , L0047669 ,
		L0047670 , L0047671 , L0047672 , L0047673 , L0047674 , L0047675 , L0047676 , L0047677 ,
		L0047678 , L0047679 , L0047680 , L0047681 , L0047682 , L0047683 , L0047684 , L0047685 ,
		L0047686 , L0047687 , L0047688 , L0047689 , L0047690 , L0047691 , L0047692 , L0047693 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0047694 , L0047695 , L0047696 , L0047697 , L0047698 , L0047699 , L0047700 , L0047701 ,
		L0047702 , L0047703 , L0047704 , L0047705 , L0047706 , L0047707 , L0047708 , L0047709 ,
		L0047710 , L0047711 , L0047712 , L0047713 , L0047714 , L0047715 , L0047716 , L0047717 ,
		L0047718 , L0047719 , L0047720 , L0047721 , L0047722 , L0047723 , L0047724 , L0047725 ,
		L0047726 , L0047727 , L0047728 , L0047729 , L0047730 , L0047731 , L0047732 , L0047733 ,
		L0047734 , L0047735 , L0047736 , L0047737 , L0047738 , L0047739 , L0047740 , L0047741 ,
		L0047742 , L0047743 , L0047744 , L0047745 , L0047746 , L0047747 , L0047748 , L0047749 ,
		L0047750 , L0047751 , L0047752 , L0047753 , L0047754 , L0047755 , L0047756 , L0047757 ,
		L0047758 , L0047759 , L0047760 , L0047761 , L0047762 , L0047763 , L0047764 , L0047765 ,
		L0047766 , L0047767 , L0047768 , L0047769 , L0047770 , L0047771 , L0047772 , L0047773 ,
		L0047774 , L0047775 , L0047776 , L0047777 , L0047778 , L0047779 , L0047780 , L0047781 ,
		L0047782 , L0047783 , L0047784 , L0047785 , L0047786 , L0047787 , L0047788 , L0047789 ,
		L0047790 , L0047791 , L0047792 , L0047793 , L0047794 , L0047795 , L0047796 , L0047797 ,
		L0047798 , L0047799 , L0047800 , L0047801 , L0047802 , L0047803 , L0047804 , L0047805 ,
		L0047806 , L0047807 , L0047808 , L0047809 , L0047810 , L0047811 , L0047812 , L0047813 ,
		L0047814 , L0047815 , L0047816 , L0047817 , L0047818 , L0047819 , L0047820 , L0047821 ,
		L0047822 , L0047823 , L0047824 , L0047825 , L0047826 , L0047827 , L0047828 , L0047829 ,
		L0047830 , L0047831 , L0047832 , L0047833 , L0047834 , L0047835 , L0047836 , L0047837 ,
		L0047838 , L0047839 , L0047840 , L0047841 , L0047842 , L0047843 , L0047844 , L0047845 ,
		L0047846 , L0047847 , L0047848 , L0047849 , L0047850 , L0047851 , L0047852 , L0047853 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0047854 , L0047855 , L0047856 , L0047857 , L0047858 , L0047859 , L0047860 , L0047861 ,
		L0047862 , L0047863 , L0047864 , L0047865 , L0047866 , L0047867 , L0047868 , L0047869 ,
		L0047870 , L0047871 , L0047872 , L0047873 , L0047874 , L0047875 , L0047876 , L0047877 ,
		L0047878 , L0047879 , L0047880 , L0047881 , L0047882 , L0047883 , L0047884 , L0047885 ,
		L0047886 , L0047887 , L0047888 , L0047889 , STCK5 , STCK6 , STCK7 , STCK8 ,
		STCK9 , STCK10 , STCK11 , STCK12 , STCK13 , STCK14 , STCK15 , STCK16 ,
		STCK18 , STCK19 , STCK20 , STCK21 , STCK22 , STCK23 , STCK24 , STCK25 ,
		STCK26 , STCK27 , STCK28 , STCK29 , STCK30 , STCK31 , STCK32 , STCK33 ,
		STCK34 , L0047890 , L0047891 , L0047892 , L0047893 , L0047894 , L0047895 , L0047896 ,
		L0047897 , L0047898 , L0047899 , L0047900 , L0047901 , L0047902 , L0047903 , L0047904 ,
		L0047905 , L0047906 , L0047907 , L0047908 , L0047909 , L0047910 , L0047911 , L0047912 ,
		L0047913 , L0047914 , L0047915 , L0047916 , L0047917 , L0047918 , L0047919 , L0047920 ,
		L0047921 , L0047922 , L0047923 , L0047924 , L0047925 , L0047926 , L0047927 , L0047928 ,
		L0047929 , L0047930 , L0047931 , L0047932 , L0047933 , L0047934 , L0047935 , L0047936 ,
		L0047937 , L0047938 , L0047939 , L0047940 , L0047941 , L0047942 , L0047943 , L0047944 ,
		L0047945 , L0047946 , L0047947 , L0047948 , L0047949 , L0047950 , L0047951 , L0047952 ,
		L0047953 , L0047954 , L0047955 , L0047956 , L0047957 , L0047958 , L0047959 , L0047960 ,
		L0047961 , L0047962 , L0047963 , L0047964 , L0047965 , L0047966 , L0047967 , L0047968 ,
		L0047969 , L0047970 , L0047971 , L0047972 , L0047973 , L0047974 , L0047975 , L0047976 ,
		L0047977 , L0047978 , L0047979 , L0047980 , L0047981 , L0047982 , L0047983 , L0047984 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0047985 , L0047986 , L0047987 , L0047988 , L0047989 , L0047990 , L0047991 , L0047992 ,
		L0047993 , L0047994 , L0047995 , L0047996 , L0047997 , L0047998 , L0047999 , L0048000 ,
		L0048001 , L0048002 , L0048003 , L0048004 , L0048005 , L0048006 , L0048007 , L0048008 ,
		L0048009 , L0048010 , L0048011 , L0048012 , L0048013 , L0048014 , L0048015 , L0048016 ,
		L0048017 , L0048018 , L0048019 , L0048020 , L0048021 , L0048022 , L0048023 , L0048024 ,
		L0048025 , L0048026 , L0048027 , L0048028 , L0048029 , L0048030 , L0048031 , L0048032 ,
		L0048033 , L0048034 , L0048035 , L0048036 , L0048037 , L0048038 , L0048039 , L0048040 ,
		L0048041 , L0048042 , L0048043 , L0048044 , L0048045 , L0048046 , L0048047 , L0048048 ,
		L0048049 , L0048050 , L0048051 , L0048052 , L0048053 , L0048054 , L0048055 , L0048056 ,
		L0048057 , L0048058 , L0048059 , L0048060 , L0048061 , L0048062 , L0048063 , L0048064 ,
		L0048065 , L0048066 , L0048067 , L0048068 , L0048069 , L0048070 , L0048071 , L0048072 ,
		L0048073 , L0048074 , L0048075 , L0048076 , L0048077 , L0048078 , L0048079 , L0048080 ,
		L0048081 , L0048082 , L0048083 , L0048084 , L0048085 , L0048086 , L0048087 , L0048088 ,
		L0048089 , L0048090 , L0048091 , L0048092 , L0048093 , L0048094 , L0048095 , L0048096 ,
		L0048097 , L0048098 , L0048099 , L0048100 , L0048101 , L0048102 , L0048103 , L0048104 ,
		L0048105 , L0048106 , L0048107 , L0048108 , L0048109 , L0048110 , L0048111 , L0048112 ,
		L0048113 , L0048114 , L0048115 , L0048116 , L0048117 , L0048118 , L0048119 , L0048120 ,
		L0048121 , L0048122 , L0048123 , L0048124 , L0048125 , L0048126 , L0048127 , L0048128 ,
		L0048129 , L0048130 , L0048131 , L0048132 , L0048133 , L0048134 , L0048135 , L0048136 ,
		L0048137 , L0048138 , L0048139 , L0048140 , L0048141 , L0048142 , L0048143 , L0048144 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0048145 , L0048146 , L0048147 , L0048148 , L0048149 , L0048150 , L0048151 , L0048152 ,
		L0048153 , L0048154 , L0048155 , L0048156 , L0048157 , L0048158 , L0048159 , L0048160 ,
		L0048161 , L0048162 , L0048163 , L0048164 , L0048165 , L0048166 , L0048167 , L0048168 ,
		L0048169 , L0048170 , L0048171 , L0048172 , L0048173 , L0048174 , L0048175 , L0048176 ,
		L0048177 , L0048178 , L0048179 , L0048180 , L0048181 , L0048182 , L0048183 , L0048184 ,
		L0048185 , L0048186 , L0048187 , L0048188 , L0048189 , L0048190 , L0048191 , L0048192 ,
		L0048193 , L0048194 , L0048195 , L0048196 , L0048197 , L0048198 , L0048199 , L0048200 ,
		L0048201 , L0048202 , L0048203 , L0048204 , L0048205 , L0048206 , L0048207 , L0048208 ,
		L0048209 , L0048210 , L0048211 , L0048212 , L0048213 , L0048214 , L0048215 , L0048216 ,
		L0048217 , L0048218 , L0048219 , L0048220 , L0048221 , L0048222 , L0048223 , L0048224 ,
		L0048225 , L0048226 , L0048227 , L0048228 , L0048229 , L0048230 , L0048231 , L0048232 ,
		L0048233 , L0048234 , L0048235 , L0048236 , L0048237 , L0048238 , L0048239 , L0048240 ,
		L0048241 , L0048242 , L0048243 , L0048244 , L0048245 , L0048246 , L0048247 , L0048248 ,
		L0048249 , L0048250 , L0048251 , L0048252 , L0048253 , L0048254 , L0048255 , L0048256 ,
		L0048257 , L0048258 , L0048259 , L0048260 , L0048261 , L0048262 , L0048263 , L0048264 ,
		L0048265 , L0048266 , L0048267 , L0048268 , L0048269 , L0048270 , L0048271 , L0048272 ,
		L0048273 , L0048274 , L0048275 , L0048276 , L0048277 , L0048278 , L0048279 , L0048280 ,
		L0048281 , L0048282 , L0048283 , L0048284 , L0048285 , L0048286 , L0048287 , L0048288 ,
		L0048289 , L0048290 , L0048291 , L0048292 , L0048293 , L0048294 , L0048295 , L0048296 ,
		L0048297 , L0048298 , L0048299 , L0048300 , L0048301 , L0048302 , L0048303 , L0048304 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0048305 , L0048306 , L0048307 , L0048308 , L0048309 , L0048310 , L0048311 , L0048312 ,
		L0048313 , L0048314 , L0048315 , L0048316 , L0048317 , L0048318 , L0048319 , L0048320 ,
		L0048321 , L0048322 , L0048323 , L0048324 , L0048325 , L0048326 , L0048327 , L0048328 ,
		L0048329 , L0048330 , L0048331 , L0048332 , L0048333 , L0048334 , L0048335 , L0048336 ,
		L0048337 , L0048338 , L0048339 , L0048340 , L0048341 , L0048342 , L0048343 , L0048344 ,
		L0048345 , L0048346 , L0048347 , L0048348 , L0048349 , L0048350 , L0048351 , L0048352 ,
		L0048353 , L0048354 , L0048355 , L0048356 , L0048357 , L0048358 , L0048359 , L0048360 ,
		L0048361 , L0048362 , L0048363 , L0048364 , L0048365 , L0048366 , L0048367 , L0048368 ,
		L0048369 , L0048370 , L0048371 , L0048372 , L0048373 , L0048374 , L0048375 , L0048376 ,
		L0048377 , L0048378 , L0048379 , L0048380 , L0048381 , L0048382 , L0048383 , L0048384 ,
		L0048385 , L0048386 , L0048387 , L0048388 , L0048389 , L0048390 , L0048391 , L0048392 ,
		L0048393 , L0048394 , L0048395 , L0048396 , L0048397 , L0048398 , L0048399 , L0048400 ,
		L0048401 , L0048402 , L0048403 , L0048404 , L0048405 , L0048406 , L0048407 , L0048408 ,
		L0048409 , L0048410 , L0048411 , L0048412 , L0048413 , L0048414 , L0048415 , L0048416 ,
		L0048417 , L0048418 , L0048419 , L0048420 , L0048421 , L0048422 , L0048423 , L0048424 ,
		L0048425 , L0048426 , L0048427 , L0048428 , L0048429 , L0048430 , L0048431 , L0048432 ,
		L0048433 , L0048434 , L0048435 , L0048436 , L0048437 , L0048438 , L0048439 , L0048440 ,
		L0048441 , L0048442 , L0048443 , L0048444 , L0048445 , L0048446 , L0048447 , L0048448 ,
		L0048449 , L0048450 , L0048451 , L0048452 , L0048453 , L0048454 , L0048455 , L0048456 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0048457 , L0048458 , L0048459 , L0048460 , L0048461 , L0048462 , L0048463 , L0048464 ,

L0048465 , L0048466 , L0048467 , L0048468 , L0048469 , L0048470 , L0048471 , L0048472 ,

L0048473 , L0048474 , L0048475 , L0048476 , L0048477 , L0048478 , L0048479 , L0048480 ,

L0048481 , L0048482 , L0048483 , L0048484 , L0048485 , L0048486 , L0048487 , L0048488 ,

L0048489 , L0048490 , L0048491 , L0048492 , L0048493 , L0048494 , L0048495 , L0048496 ,

L0048497 , L0048498 , L0048499 , L0048500 , L0048501 , L0048502 , L0048503 , L0048504 ,

L0048505 , L0048506 , L0048507 , L0048508 , L0048509 , L0048510 , L0048511 , L0048512 ,

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L0048537 , L0048538 , L0048539 , L0048540 , L0048541 , L0048542 , L0048543 , L0048544 ,

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L0048577 , L0048578 , L0048579 , L0048580 , L0048581 , L0048582 , L0048583 , L0048584 ,

L0048585 , L0048586 , L0048587 , L0048588 , L0048589 , L0048590 , L0048591 , L0048592 ,

L0048593 , L0048594 , L0048595 , L0048596 , L0048597 , L0048598 , L0048599 , L0048600 ,

L0048601 , L0048602 , L0048603 , L0048604 , L0048605 , L0048606 , L0048607 , L0048608 ,

L0048609 , L0048610 , L0048611 , L0048612 , L0048613 , L0048614 , L0048615 , L0048616 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0048625 , L0048626 , L0048627 , L0048628 , L0048629 , L0048630 , L0048631 , L0048632 ,

L0048633 , L0048634 , L0048635 , L0048636 , L0048637 , L0048638 , L0048639 , L0048640 ,

L0048641 , L0048642 , L0048643 , L0048644 , L0048645 , L0048646 , L0048647 , L0048648 ,

L0048649 , L0048650 , L0048651 , L0048652 , L0048653 , L0048654 , L0048655 , L0048656 ,

L0048657 , L0048658 , L0048659 , L0048660 , L0048661 , L0048662 , L0048663 , L0048664 ,

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L0048673 , L0048674 , L0048675 , L0048676 , L0048677 , L0048678 , L0048679 , L0048680 ,

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L0048689 , L0048690 , L0048691 , L0048692 , L0048693 , L0048694 , L0048695 , L0048696 ,

L0048697 , L0048698 , L0048699 , L0048700 , L0048701 , L0048702 , L0048703 , L0048704 ,

L0048705 , L0048706 , L0048707 , L0048708 , L0048709 , L0048710 , L0048711 , L0048712 ,

L0048713 , L0048714 , L0048715 , L0048716 , L0048717 , L0048718 , L0048719 , L0048720 ,

L0048721 , L0048722 , L0048723 , L0048724 , L0048725 , L0048726 , L0048727 , L0048728 ,

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L0048737 , L0048738 , L0048739 , L0048740 , L0048741 , L0048742 , L0048743 , L0048744 ,

L0048745 , L0048746 , L0048747 , L0048748 , L0048749 , L0048750 , L0048751 , L0048752 ,

L0048753 , L0048754 , L0048755 , L0048756 , L0048757 , L0048758 , L0048759 , L0048760 ,

L0048761 , L0048762 , L0048763 , L0048764 , L0048765 , L0048766 , L0048767 , L0048768 ,

L0048769 , L0048770 , L0048771 , L0048772 , L0048773 , L0048774 , L0048775 , L0048776 ,

L0048777 , L0048778 , L0048779 , L0048780 , L0048781 , L0048782 , L0048783 , L0048784 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0048785 , L0048786 , L0048787 , L0048788 , L0048789 , L0048790 , L0048791 , L0048792 ,

L0048793 , L0048794 , L0048795 , L0048796 , L0048797 , L0048798 , L0048799 , L0048800 ,

L0048801 , L0048802 , L0048803 , L0048804 , L0048805 , L0048806 , L0048807 , L0048808 ,

L0048809 , L0048810 , L0048811 , L0048812 , L0048813 , L0048814 , L0048815 , L0048816 ,

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L0048825 , L0048826 , L0048827 , L0048828 , L0048829 , L0048830 , L0048831 , L0048832 ,

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L0048881 , L0048882 , L0048883 , L0048884 , L0048885 , L0048886 , L0048887 , L0048888 ,

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L0048905 , L0048906 , L0048907 , L0048908 , L0048909 , L0048910 , L0048911 , L0048912 ,

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L0048937 , L0048938 , L0048939 , L0048940 , L0048941 , L0048942 , L0048943 , L0048944 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0048945 , L0048946 , L0048947 , L0048948 , L0048949 , L0048950 , L0048951 , L0048952 ,

L0048953 , L0048954 , L0048955 , L0048956 , L0048957 , L0048958 , L0048959 , L0048960 ,

L0048961 , L0048962 , L0048963 , L0048964 , L0048965 , L0048966 , L0048967 , L0048968 ,

L0048969 , L0048970 , L0048971 , L0048972 , L0048973 , L0048974 , L0048975 , L0048976 ,

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L0048993 , L0048994 , L0048995 , L0048996 , L0048997 , L0048998 , L0048999 , L0049000 ,

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L0049025 , L0049026 , L0049027 , L0049028 , L0049029 , L0049030 , L0049031 , L0049032 ,

L0049033 , L0049034 , L0049035 , L0049036 , L0049037 , L0049038 , L0049039 , L0049040 ,

L0049041 , L0049042 , L0049043 , L0049044 , L0049045 , L0049046 , L0049047 , L0049048 ,

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L0049097 , L0049098 , L0049099 , L0049100 , L0049101 , L0049102 , L0049103 , L0049104 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0049105 , L0049106 , L0049107 , L0049108 , L0049109 , L0049110 , L0049111 , L0049112 ,

L0049113 , L0049114 , L0049115 , L0049116 , L0049117 , L0049118 , L0049119 , L0049120 ,

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L0049129 , L0049130 , L0049131 , L0049132 , L0049133 , L0049134 , L0049135 , L0049136 ,

L0049137 , L0049138 , L0049139 , L0049140 , L0049141 , L0049142 , L0049143 , L0049144 ,

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L0049153 , L0049154 , L0049155 , L0049156 , L0049157 , L0049158 , L0049159 , L0049160 ,

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L0049257 , L0049258 , L0049259 , L0049260 , L0049261 , L0049262 , L0049263 , L0049264 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0049265 , L0049266 , L0049267 , L0049268 , L0049269 , L0049270 , L0049271 , L0049272 ,

L0049273 , L0049274 , L0049275 , L0049276 , L0049277 , L0049278 , L0049279 , L0049280 ,

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L0049305 , L0049306 , L0049307 , L0049308 , L0049309 , L0049310 , L0049311 , L0049312 ,

L0049313 , L0049314 , L0049315 , L0049316 , L0049317 , L0049318 , L0049319 , L0049320 ,

L0049321 , L0049322 , L0049323 , L0049324 , L0049325 , L0049326 , L0049327 , L0049328 ,

L0049329 , L0049330 , L0049331 , L0049332 , L0049333 , L0049334 , L0049335 , L0049336 ,

L0049337 , L0049338 , L0049339 , L0049340 , L0049341 , L0049342 , L0049343 , L0049344 ,

L0049345 , L0049346 , L0049347 , L0049348 , L0049349 , L0049350 , L0049351 , L0049352 ,

L0049353 , L0049354 , L0049355 , L0049356 , L0049357 , L0049358 , L0049359 , L0049360 ,

L0049361 , L0049362 , L0049363 , L0049364 , L0049365 , L0049366 , L0049367 , L0049368 ,

L0049369 , L0049370 , L0049371 , L0049372 , L0049373 , L0049374 , L0049375 , L0049376 ,

L0049377 , L0049378 , L0049379 , L0049380 , L0049381 , L0049382 , L0049383 , L0049384 ,

L0049385 , L0049386 , L0049387 , L0049388 , L0049389 , L0049390 , L0049391 , L0049392 ,

L0049393 , L0049394 , L0049395 , L0049396 , L0049397 , L0049398 , L0049399 , L0049400 ,

L0049401 , L0049402 , L0049403 , L0049404 , L0049405 , L0049406 , L0049407 , L0049408 ,

L0049409 , L0049410 , L0049411 , L0049412 , L0049413 , L0049414 , L0049415 , L0049416 ,

L0049417 , L0049418 , L0049419 , L0049420 , L0049421 , L0049422 , L0049423 , L0049424 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0049425 , L0049426 , L0049427 , L0049428 , L0049429 , L0049430 , L0049431 , L0049432 ,

L0049433 , L0049434 , L0049435 , L0049436 , L0049437 , L0049438 , L0049439 , L0049440 ,

L0049441 , L0049442 , L0049443 , L0049444 , L0049445 , L0049446 , L0049447 , L0049448 ,

L0049449 , L0049450 , L0049451 , L0049452 , L0049453 , L0049454 , L0049455 , L0049456 ,

L0049457 , L0049458 , L0049459 , L0049460 , L0049461 , L0049462 , L0049463 , L0049464 ,

L0049465 , L0049466 , L0049467 , L0049468 , L0049469 , L0049470 , L0049471 , L0049472 ,

L0049473 , L0049474 , L0049475 , L0049476 , L0049477 , L0049478 , L0049479 , L0049480 ,

L0049481 , L0049482 , L0049483 , L0049484 , L0049485 , L0049486 , L0049487 , L0049488 ,

L0049489 , L0049490 , L0049491 , L0049492 , L0049493 , L0049494 , L0049495 , L0049496 ,

L0049497 , L0049498 , L0049499 , L0049500 , L0049501 , L0049502 , L0049503 , L0049504 ,

L0049505 , L0049506 , L0049507 , L0049508 , L0049509 , L0049510 , L0049511 , L0049512 ,

L0049513 , L0049514 , L0049515 , L0049516 , L0049517 , L0049518 , L0049519 , L0049520 ,

L0049521 , L0049522 , L0049523 , L0049524 , L0049525 , L0049526 , L0049527 , L0049528 ,

L0049529 , L0049530 , L0049531 , L0049532 , L0049533 , L0049534 , L0049535 , L0049536 ,

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L0049545 , L0049546 , L0049547 , L0049548 , L0049549 , L0049550 , L0049551 , L0049552 ,

L0049553 , L0049554 , L0049555 , L0049556 , L0049557 , L0049558 , L0049559 , L0049560 ,

L0049561 , L0049562 , L0049563 , L0049564 , L0049565 , L0049566 , L0049567 , L0049568 ,

L0049569 , L0049570 , L0049571 , L0049572 , L0049573 , L0049574 , L0049575 , L0049576 ,

L0049577 , L0049578 , L0049579 , L0049580 , L0049581 , L0049582 , L0049583 , L0049584 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0049585 , L0049586 , L0049587 , L0049588 , L0049589 , L0049590 , L0049591 , L0049592 ,

L0049593 , L0049594 , L0049595 , L0049596 , L0049597 , L0049598 , L0049599 , L0049600 ,

L0049601 , L0049602 , L0049603 , L0049604 , L0049605 , L0049606 , L0049607 , L0049608 ,

L0049609 , L0049610 , L0049611 , L0049612 , L0049613 , L0049614 , L0049615 , L0049616 ,

L0049617 , L0049618 , L0049619 , L0049620 , L0049621 , L0049622 , L0049623 , L0049624 ,

L0049625 , L0049626 , L0049627 , L0049628 , L0049629 , L0049630 , L0049631 , L0049632 ,

L0049633 , L0049634 , L0049635 , L0049636 , L0049637 , L0049638 , L0049639 , L0049640 ,

L0049641 , L0049642 , L0049643 , L0049644 , L0049645 , L0049646 , L0049647 , L0049648 ,

L0049649 , L0049650 , L0049651 , L0049652 , L0049653 , L0049654 , L0049655 , L0049656 ,

L0049657 , L0049658 , L0049659 , L0049660 , L0049661 , L0049662 , L0049663 , L0049664 ,

L0049665 , L0049666 , L0049667 , L0049668 , L0049669 , L0049670 , L0049671 , L0049672 ,

L0049673 , L0049674 , L0049675 , L0049676 , L0049677 , L0049678 , L0049679 , L0049680 ,

L0049681 , L0049682 , L0049683 , L0049684 , L0049685 , L0049686 , L0049687 , L0049688 ,

L0049689 , L0049690 , L0049691 , L0049692 , L0049693 , L0049694 , L0049695 , L0049696 ,

L0049697 , L0049698 , L0049699 , L0049700 , L0049701 , L0049702 , L0049703 , L0049704 ,

L0049705 , L0049706 , L0049707 , L0049708 , L0049709 , L0049710 , L0049711 , L0049712 ,

L0049713 , L0049714 , L0049715 , L0049716 , L0049717 , L0049718 , L0049719 , L0049720 ,

L0049721 , L0049722 , L0049723 , L0049724 , L0049725 , L0049726 , L0049727 , L0049728 ,

L0049729 , L0049730 , L0049731 , L0049732 , L0049733 , L0049734 , L0049735 , L0049736 ,

L0049737 , L0049738 , L0049739 , L0049740 , L0049741 , L0049742 , L0049743 , L0049744 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0049745 , L0049746 , L0049747 , L0049748 , L0049749 , L0049750 , L0049751 , L0049752 ,

L0049753 , L0049754 , L0049755 , L0049756 , L0049757 , L0049758 , L0049759 , L0049760 ,

L0049761 , L0049762 , L0049763 , L0049764 , L0049765 , L0049766 , L0049767 , L0049768 ,

L0049769 , L0049770 , L0049771 , L0049772 , L0049773 , L0049774 , L0049775 , L0049776 ,

L0049777 , L0049778 , L0049779 , L0049780 , L0049781 , L0049782 , L0049783 , L0049784 ,

L0049785 , L0049786 , L0049787 , L0049788 , L0049789 , L0049790 , L0049791 , L0049792 ,

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L0049801 , L0049802 , L0049803 , L0049804 , L0049805 , L0049806 , L0049807 , L0049808 ,

L0049809 , L0049810 , L0049811 , L0049812 , L0049813 , L0049814 , L0049815 , L0049816 ,

L0049817 , L0049818 , L0049819 , L0049820 , L0049821 , L0049822 , L0049823 , L0049824 ,

L0049825 , L0049826 , L0049827 , L0049828 , L0049829 , L0049830 , L0049831 , L0049832 ,

L0049833 , L0049834 , L0049835 , L0049836 , L0049837 , L0049838 , L0049839 , L0049840 ,

L0049841 , L0049842 , L0049843 , L0049844 , L0049845 , L0049846 , L0049847 , L0049848 ,

L0049849 , L0049850 , L0049851 , L0049852 , L0049853 , L0049854 , L0049855 , L0049856 ,

L0049857 , L0049858 , L0049859 , L0049860 , L0049861 , L0049862 , L0049863 , L0049864 ,

L0049865 , L0049866 , L0049867 , L0049868 , L0049869 , L0049870 , L0049871 , L0049872 ,

L0049873 , L0049874 , L0049875 , L0049876 , L0049877 , L0049878 , L0049879 , L0049880 ,

L0049881 , L0049882 , L0049883 , L0049884 , L0049885 , L0049886 , L0049887 , L0049888 ,

L0049889 , L0049890 , L0049891 , L0049892 , L0049893 , L0049894 , L0049895 , L0049896 ,

L0049897 , L0049898 , L0049899 , L0049900 , L0049901 , L0049902 , L0049903 , L0049904 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0049905 , L0049906 , L0049907 , L0049908 , L0049909 , L0049910 , L0049911 , L0049912 ,

L0049913 , L0049914 , L0049915 , L0049916 , L0049917 , L0049918 , L0049919 , L0049920 ,

L0049921 , L0049922 , L0049923 , L0049924 , L0049925 , L0049926 , L0049927 , L0049928 ,

L0049929 , L0049930 , L0049931 , L0049932 , L0049933 , L0049934 , L0049935 , L0049936 ,

L0049937 , L0049938 , L0049939 , L0049940 , L0049941 , L0049942 , L0049943 , L0049944 ,

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK1

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	142.7,	83.5,	-3.6,	-26.8,	2	9.1,	146.8,	103.3,	-9.4,	-19.7,
3	9.1,	146.5,	119.9,	-15.0,	-11.9,	4	9.1,	141.6,	132.9,	-20.1,	-3.9,
5	9.1,	132.5,	141.9,	-24.6,	4.3,	6	9.1,	119.3,	146.5,	-28.3,	12.4,
7	9.1,	102.6,	146.7,	-31.2,	20.1,	8	9.1,	82.7,	142.5,	-33.1,	27.2,
9	9.1,	61.2,	134.3,	-34.1,	33.0,	10	9.1,	83.5,	142.7,	-44.6,	38.2,
11	9.1,	103.3,	146.8,	-53.8,	42.2,	12	9.1,	119.9,	146.5,	-61.3,	45.0,
13	9.1,	132.9,	141.6,	-67.0,	46.4,	14	9.1,	141.9,	132.5,	-70.6,	46.4,
15	9.1,	146.5,	119.3,	-72.1,	44.9,	16	9.1,	146.7,	102.6,	-71.4,	42.1,

17	9.1,	142.5,	82.7,	-68.5,	38.1,	18	9.1,	134.3,	61.2,	-63.6,	33.1,
19	9.1,	142.7,	83.5,	-79.9,	26.8,	20	9.1,	146.8,	103.3,	-93.9,	19.7,
21	9.1,	146.5,	119.9,	-104.9,	11.9,	22	9.1,	141.6,	132.9,	-112.8,	3.9,
23	9.1,	132.5,	141.9,	-117.3,	-4.3,	24	9.1,	119.3,	146.5,	-118.2,	-12.4,
25	9.1,	102.6,	146.7,	-115.5,	-20.1,	26	9.1,	82.7,	142.5,	-109.3,	-27.2,
27	9.1,	61.2,	134.3,	-100.2,	-33.0,	28	9.1,	83.5,	142.7,	-98.1,	-38.2,
29	9.1,	103.3,	146.8,	-93.1,	-42.2,	30	9.1,	119.9,	146.5,	-85.2,	-45.0,
31	9.1,	132.9,	141.6,	-74.7,	-46.4,	32	9.1,	141.9,	132.5,	-61.9,	-46.4,
33	9.1,	146.5,	119.3,	-47.3,	-44.9,	34	9.1,	146.7,	102.6,	-31.2,	-42.1,
35	9.1,	142.5,	82.7,	-14.2,	-38.1,	36	9.1,	134.3,	61.2,	2.4,	-33.1,

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	46.0,	67.3,	-32.5,	21.5,	2	9.1,	55.1,	71.0,	-38.2,	21.3,
3	9.1,	62.6,	72.5,	-42.7,	20.4,	4	9.1,	68.2,	71.8,	-45.9,	18.9,
5	9.1,	71.8,	68.9,	-47.8,	16.8,	6	9.1,	73.1,	63.9,	-48.1,	14.2,
7	9.1,	72.2,	57.0,	-47.0,	11.2,	8	9.1,	69.1,	48.3,	-44.5,	7.9,
9	9.1,	63.9,	38.2,	-40.6,	4.3,	10	9.1,	67.3,	46.0,	-44.5,	1.1,
11	9.1,	71.0,	55.1,	-48.8,	-2.7,	12	9.1,	72.5,	62.6,	-51.7,	-6.5,
13	9.1,	71.8,	68.2,	-53.0,	-10.1,	14	9.1,	68.9,	71.8,	-52.7,	-13.3,
15	9.1,	63.9,	73.1,	-50.8,	-16.2,	16	9.1,	57.0,	72.2,	-47.3,	-18.6,
17	9.1,	48.3,	69.1,	-42.4,	-20.4,	18	9.1,	38.2,	63.9,	-36.2,	-21.5,
19	9.1,	46.0,	67.3,	-34.8,	-21.5,	20	9.1,	55.1,	71.0,	-32.8,	-21.3,
21	9.1,	62.6,	72.5,	-29.8,	-20.4,	22	9.1,	68.2,	71.8,	-25.8,	-18.9,
23	9.1,	71.8,	68.9,	-21.1,	-16.8,	24	9.1,	73.1,	63.9,	-15.8,	-14.2,
25	9.1,	72.2,	57.0,	-9.9,	-11.2,	26	9.1,	69.1,	48.3,	-3.8,	-7.9,
27	9.1,	63.9,	38.2,	2.4,	-4.3,	28	9.1,	67.3,	46.0,	-1.5,	-1.1,
29	9.1,	71.0,	55.1,	-6.3,	2.7,	30	9.1,	72.5,	62.6,	-10.9,	6.5,
31	9.1,	71.8,	68.2,	-15.2,	10.1,	32	9.1,	68.9,	71.8,	-19.1,	13.3,
33	9.1,	63.9,	73.1,	-22.3,	16.2,	34	9.1,	57.0,	72.2,	-24.9,	18.6,
35	9.1,	48.3,	69.1,	-26.7,	20.4,	36	9.1,	38.2,	63.9,	-27.7,	21.5,

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	74.7,	54.0,	-53.7,	-6.4,	2	9.1,	78.7,	63.6,	-56.9,	-10.9,
3	9.1,	80.4,	71.2,	-58.4,	-15.1,	4	9.1,	150.5,	143.5,	10.8,	15.8,
5	9.1,	142.5,	151.6,	2.7,	29.8,	6	9.1,	130.2,	155.1,	-5.4,	42.8,
7	9.1,	113.9,	153.8,	-13.4,	54.6,	8	9.1,	53.6,	74.7,	-40.4,	-27.1,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	54.0,	74.7,	-30.9,	-26.7,
11	9.1,	63.6,	78.7,	-28.4,	-25.2,	12	9.1,	71.2,	80.4,	-25.1,	-22.9,
13	9.1,	76.7,	79.6,	-21.0,	-19.9,	14	9.1,	151.6,	142.5,	-101.0,	78.5,
15	9.1,	155.1,	130.2,	-107.9,	72.1,	16	9.1,	153.8,	113.9,	-111.6,	63.5,
17	9.1,	147.9,	94.2,	-111.8,	53.0,	18	9.1,	137.5,	72.4,	-109.5,	40.8,
19	9.1,	146.8,	94.8,	-126.9,	27.3,	20	9.1,	152.7,	114.7,	-140.4,	13.2,
21	9.1,	153.9,	131.1,	-149.6,	-1.3,	22	9.1,	150.5,	143.5,	-154.3,	-15.8,
23	9.1,	142.5,	151.6,	-154.3,	-29.8,	24	9.1,	130.2,	155.1,	-149.7,	-42.8,
25	9.1,	113.9,	153.8,	-140.4,	-54.6,	26	9.1,	53.6,	74.7,	-34.3,	27.1,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	54.0,	74.7,	-43.7,	26.7,
29	9.1,	63.6,	78.7,	-50.3,	25.2,	30	9.1,	71.2,	80.4,	-55.3,	22.9,

31	9.1,	76.7,	79.6,	-58.6,	19.9,	32	9.1,	151.6,	142.5,	-41.5,	-78.5,
33	9.1,	155.1,	130.2,	-22.3,	-72.1,	34	9.1,	153.8,	113.9,	-2.3,	-63.5,
35	9.1,	147.9,	94.2,	17.7,	-53.0,	36	9.1,	68.3,	42.8,	-48.8,	-1.7,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	146.8,	94.8,	16.8,	59.6,	2	9.1,	152.7,	114.7,	-4.5,	69.7,
3	9.1,	153.9,	131.1,	-25.6,	77.7,	4	9.1,	83.6,	79.5,	-59.4,	-19.5,
5	9.1,	80.2,	83.1,	-57.5,	-22.7,	6	9.1,	74.3,	84.1,	-53.8,	-25.1,
7	9.1,	66.1,	82.6,	-48.5,	-26.7,	8	9.1,	56.0,	78.6,	-41.8,	-27.6,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	55.1,	78.8,	-32.3,	-26.8,
11	9.1,	114.7,	152.7,	-146.0,	52.9,	12	9.1,	131.1,	153.9,	-154.7,	40.0,
13	9.1,	143.5,	150.5,	-158.6,	25.9,	14	9.1,	151.6,	142.5,	-157.7,	10.9,
15	9.1,	155.1,	130.2,	-152.1,	-4.3,	16	9.1,	153.8,	113.9,	-141.8,	-19.4,
17	9.1,	147.9,	94.2,	-127.2,	-33.9,	18	9.1,	137.5,	72.4,	-109.5,	-47.4,
19	9.1,	146.8,	94.8,	-111.5,	-59.6,	20	9.1,	152.7,	114.7,	-110.2,	-69.7,
21	9.1,	153.9,	131.1,	-105.5,	-77.7,	22	9.1,	83.6,	79.5,	-20.1,	19.5,
23	9.1,	80.2,	83.1,	-25.6,	22.7,	24	9.1,	74.3,	84.1,	-30.3,	25.1,
25	9.1,	66.1,	82.6,	-34.1,	26.7,	26	9.1,	56.0,	78.6,	-36.8,	27.6,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	55.1,	78.8,	-46.5,	26.8,
29	9.1,	114.7,	152.7,	-6.6,	-52.9,	30	9.1,	131.1,	153.9,	0.8,	-40.0,
31	9.1,	143.5,	150.5,	8.1,	-25.9,	32	9.1,	151.6,	142.5,	15.2,	-10.9,
33	9.1,	84.1,	74.3,	-62.2,	11.8,	34	9.1,	82.6,	66.1,	-59.8,	7.2,
35	9.1,	78.6,	56.0,	-55.6,	2.5,	36	9.1,	72.2,	44.1,	-49.6,	-2.3,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK5

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	142.7,	83.5,	-13.4,	31.6,	2	9.1,	146.8,	103.3,	-29.2,	36.2,
3	9.1,	146.5,	119.9,	-44.2,	39.6,	4	9.1,	141.6,	132.9,	-57.8,	41.8,
5	9.1,	132.5,	141.9,	-69.6,	42.8,	6	9.1,	119.3,	146.5,	-79.4,	42.4,
7	9.1,	102.6,	146.7,	-86.7,	40.8,	8	9.1,	82.7,	142.5,	-91.4,	37.9,
9	9.1,	61.2,	134.3,	-93.3,	33.5,	10	9.1,	83.5,	142.7,	-103.0,	28.4,
11	9.1,	103.3,	146.8,	-109.6,	22.4,	12	9.1,	119.9,	146.5,	-112.8,	15.8,
13	9.1,	132.9,	141.6,	-112.6,	8.7,	14	9.1,	141.9,	132.5,	-109.0,	1.3,
15	9.1,	146.5,	119.3,	-102.1,	-6.1,	16	9.1,	146.7,	102.6,	-92.1,	-13.4,
17	9.1,	142.5,	82.7,	-79.3,	-20.2,	18	9.1,	134.3,	61.2,	-64.0,	-26.2,
19	9.1,	142.7,	83.5,	-70.1,	-31.6,	20	9.1,	146.8,	103.3,	-74.1,	-36.2,
21	9.1,	146.5,	119.9,	-75.7,	-39.6,	22	9.1,	141.6,	132.9,	-75.1,	-41.8,
23	9.1,	132.5,	141.9,	-72.2,	-42.8,	24	9.1,	119.3,	146.5,	-67.1,	-42.4,
25	9.1,	102.6,	146.7,	-60.0,	-40.8,	26	9.1,	82.7,	142.5,	-51.1,	-37.9,
27	9.1,	61.2,	134.3,	-41.0,	-33.5,	28	9.1,	83.5,	142.7,	-39.7,	-28.4,

29	9.1,	103.3,	146.8,	-37.2,	-22.4,	30	9.1,	119.9,	146.5,	-33.6,	-15.8,
31	9.1,	132.9,	141.6,	-29.0,	-8.7,	32	9.1,	141.9,	132.5,	-23.5,	-1.3,
33	9.1,	146.5,	119.3,	-17.2,	6.1,	34	9.1,	146.7,	102.6,	-10.5,	13.4,
35	9.1,	142.5,	82.7,	-3.4,	20.2,	36	9.1,	134.3,	61.2,	2.9,	26.2,

SOURCE ID: STCK6

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	145.1,	85.7,	-3.0,	-22.9,	2	9.1,	149.4,	105.4,	-9.6,	-15.9,
3	9.1,	149.2,	121.9,	-15.9,	-8.3,	4	9.1,	144.5,	134.8,	-21.8,	-0.5,
5	9.1,	135.3,	143.5,	-26.9,	7.4,	6	9.1,	122.1,	147.9,	-31.3,	15.0,
7	9.1,	105.1,	147.8,	-34.7,	22.2,	8	9.1,	85.0,	143.2,	-37.1,	28.7,
9	9.1,	63.9,	136.4,	-38.8,	35.1,	10	9.1,	85.7,	145.1,	-49.6,	39.8,
11	9.1,	105.4,	149.4,	-58.9,	43.1,	12	9.1,	121.9,	149.2,	-66.3,	45.0,
13	9.1,	134.8,	144.5,	-71.8,	45.6,	14	9.1,	143.5,	135.3,	-75.1,	44.8,
15	9.1,	147.9,	122.1,	-76.1,	42.6,	16	9.1,	147.8,	105.1,	-74.8,	39.2,
17	9.1,	143.2,	85.0,	-71.2,	34.5,	18	9.1,	136.4,	63.9,	-67.0,	29.4,
19	9.1,	145.1,	85.7,	-82.7,	22.9,	20	9.1,	149.4,	105.4,	-95.8,	15.9,
21	9.1,	149.2,	121.9,	-106.0,	8.3,	22	9.1,	144.5,	134.8,	-113.0,	0.5,
23	9.1,	135.3,	143.5,	-116.6,	-7.4,	24	9.1,	122.1,	147.9,	-116.6,	-15.0,
25	9.1,	105.1,	147.8,	-113.1,	-22.2,	26	9.1,	85.0,	143.2,	-106.1,	-28.7,
27	9.1,	63.9,	136.4,	-97.5,	-35.1,	28	9.1,	85.7,	145.1,	-95.5,	-39.8,
29	9.1,	105.4,	149.4,	-90.6,	-43.1,	30	9.1,	121.9,	149.2,	-82.9,	-45.0,
31	9.1,	134.8,	144.5,	-72.7,	-45.6,	32	9.1,	143.5,	135.3,	-60.3,	-44.8,
33	9.1,	147.9,	122.1,	-46.0,	-42.6,	34	9.1,	147.8,	105.1,	-30.4,	-39.2,
35	9.1,	143.2,	85.0,	-13.8,	-34.5,	36	9.1,	136.4,	63.9,	3.2,	-29.4,

SOURCE ID: STCK7

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	145.1,	85.7,	-13.2,	36.7,	2	9.1,	149.4,	105.4,	-30.1,	41.1,
3	9.1,	149.2,	121.9,	-46.0,	44.3,	4	9.1,	144.5,	134.8,	-60.5,	46.1,
5	9.1,	135.3,	143.5,	-73.1,	46.5,	6	9.1,	122.1,	147.9,	-83.6,	45.5,
7	9.1,	105.1,	147.8,	-91.5,	43.1,	8	9.1,	85.0,	143.2,	-96.6,	39.4,
9	9.1,	63.9,	136.4,	-99.3,	35.4,	10	9.1,	85.7,	145.1,	-109.2,	29.6,
11	9.1,	105.4,	149.4,	-115.8,	22.7,	12	9.1,	121.9,	149.2,	-118.9,	15.0,
13	9.1,	134.8,	144.5,	-118.3,	6.9,	14	9.1,	143.5,	135.3,	-114.2,	-1.4,
15	9.1,	147.9,	122.1,	-106.6,	-9.6,	16	9.1,	147.8,	105.1,	-95.7,	-17.6,
17	9.1,	143.2,	85.0,	-81.9,	-25.0,	18	9.1,	136.4,	63.9,	-67.3,	-31.2,
19	9.1,	145.1,	85.7,	-72.4,	-36.7,	20	9.1,	149.4,	105.4,	-75.3,	-41.1,
21	9.1,	149.2,	121.9,	-76.0,	-44.3,	22	9.1,	144.5,	134.8,	-74.3,	-46.1,
23	9.1,	135.3,	143.5,	-70.4,	-46.5,	24	9.1,	122.1,	147.9,	-64.3,	-45.5,
25	9.1,	105.1,	147.8,	-56.3,	-43.1,	26	9.1,	85.0,	143.2,	-46.5,	-39.4,
27	9.1,	63.9,	136.4,	-37.0,	-35.4,	28	9.1,	85.7,	145.1,	-35.9,	-29.6,
29	9.1,	105.4,	149.4,	-33.6,	-22.7,	30	9.1,	121.9,	149.2,	-30.3,	-15.0,
31	9.1,	134.8,	144.5,	-26.2,	-6.9,	32	9.1,	143.5,	135.3,	-21.2,	1.4,
33	9.1,	147.9,	122.1,	-15.5,	9.6,	34	9.1,	147.8,	105.1,	-9.4,	17.6,
35	9.1,	143.2,	85.0,	-3.0,	25.0,	36	9.1,	136.4,	63.9,	3.4,	31.2,

SOURCE ID: STCK8

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	44.9,	68.0,	-36.7,	20.3,	2	9.1,	53.9,	70.9,	-41.7,	19.5,
3	9.1,	61.3,	71.8,	-45.4,	18.2,	4	9.1,	66.8,	70.4,	-47.7,	16.2,
5	9.1,	70.2,	66.9,	-48.6,	13.8,	6	9.1,	71.6,	61.4,	-48.0,	11.0,
7	9.1,	70.7,	54.0,	-45.9,	7.9,	8	9.1,	67.7,	45.0,	-42.5,	4.5,
9	9.1,	62.9,	34.6,	-37.7,	0.8,	10	9.1,	68.0,	44.9,	-42.7,	-2.7,
11	9.1,	70.9,	53.9,	-46.5,	-6.2,	12	9.1,	71.8,	61.3,	-48.8,	-9.5,
13	9.1,	70.4,	66.8,	-49.6,	-12.5,	14	9.1,	66.9,	70.2,	-49.0,	-15.1,
15	9.1,	61.4,	71.6,	-46.8,	-17.3,	16	9.1,	54.0,	70.7,	-43.2,	-18.9,
17	9.1,	45.0,	67.7,	-38.3,	-20.0,	18	9.1,	34.6,	62.9,	-32.3,	-20.4,
19	9.1,	44.9,	68.0,	-31.2,	-20.3,	20	9.1,	53.9,	70.9,	-29.2,	-19.5,
21	9.1,	61.3,	71.8,	-26.4,	-18.2,	22	9.1,	66.8,	70.4,	-22.7,	-16.2,
23	9.1,	70.2,	66.9,	-18.4,	-13.8,	24	9.1,	71.6,	61.4,	-13.4,	-11.0,
25	9.1,	70.7,	54.0,	-8.1,	-7.9,	26	9.1,	67.7,	45.0,	-2.5,	-4.5,
27	9.1,	62.9,	34.6,	3.1,	-0.8,	28	9.1,	68.0,	44.9,	-2.2,	2.7,
29	9.1,	70.9,	53.9,	-7.5,	6.2,	30	9.1,	71.8,	61.3,	-12.5,	9.5,
31	9.1,	70.4,	66.8,	-17.1,	12.5,	32	9.1,	66.9,	70.2,	-21.3,	15.1,
33	9.1,	61.4,	71.6,	-24.8,	17.3,	34	9.1,	54.0,	70.7,	-27.5,	18.9,
35	9.1,	45.0,	67.7,	-29.4,	20.0,	36	9.1,	34.6,	62.9,	-30.6,	20.4,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK9

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	145.4,	85.7,	-1.2,	-26.4,	2	9.1,	149.7,	105.7,	-7.3,	-18.7,
3	9.1,	149.6,	122.5,	-13.1,	-10.5,	4	9.1,	144.8,	135.6,	-18.6,	-2.0,
5	9.1,	135.7,	144.5,	-23.5,	6.6,	6	9.1,	122.4,	149.0,	-27.7,	15.0,
7	9.1,	105.4,	149.0,	-31.0,	22.9,	8	9.1,	85.3,	144.5,	-33.4,	30.2,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	85.7,	145.4,	-46.3,	41.7,
11	9.1,	105.7,	149.7,	-56.2,	45.6,	12	9.1,	122.5,	149.6,	-64.3,	48.1,
13	9.1,	135.6,	144.8,	-70.4,	49.2,	14	9.1,	144.5,	135.7,	-74.5,	48.8,
15	9.1,	149.0,	122.4,	-76.2,	46.9,	16	9.1,	149.0,	105.4,	-75.7,	43.5,
17	9.1,	144.5,	85.3,	-72.8,	38.9,	18	9.1,	136.6,	63.5,	-68.1,	33.2,
19	9.1,	145.4,	85.7,	-84.6,	26.4,	20	9.1,	149.7,	105.7,	-98.5,	18.7,
21	9.1,	149.6,	122.5,	-109.4,	10.5,	22	9.1,	144.8,	135.6,	-117.0,	2.0,
23	9.1,	135.7,	144.5,	-121.0,	-6.6,	24	9.1,	122.4,	149.0,	-121.4,	-15.0,
25	9.1,	105.4,	149.0,	-118.0,	-22.9,	26	9.1,	85.3,	144.5,	-111.1,	-30.2,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	85.7,	145.4,	-99.0,	-41.7,
29	9.1,	105.7,	149.7,	-93.6,	-45.6,	30	9.1,	122.5,	149.6,	-85.3,	-48.1,
31	9.1,	135.6,	144.8,	-74.4,	-49.2,	32	9.1,	144.5,	135.7,	-61.2,	-48.8,
33	9.1,	149.0,	122.4,	-46.2,	-46.9,	34	9.1,	149.0,	105.4,	-29.8,	-43.5,
35	9.1,	144.5,	85.3,	-12.5,	-38.9,	36	9.1,	136.6,	63.5,	4.6,	-33.2,

SOURCE ID: STCK10

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	145.4,	85.7,	-12.6,	29.9,	2	9.1,	149.7,	105.7,	-28.3,	34.7,
3	9.1,	149.6,	122.5,	-43.1,	38.5,	4	9.1,	144.8,	135.6,	-56.6,	41.0,
5	9.1,	135.7,	144.5,	-68.4,	42.4,	6	9.1,	122.4,	149.0,	-78.1,	42.4,
7	9.1,	105.4,	149.0,	-85.5,	41.2,	8	9.1,	85.3,	144.5,	-90.2,	38.7,
9	9.1,	63.5,	136.6,	-92.5,	34.8,	10	9.1,	85.7,	145.4,	-102.6,	30.2,
11	9.1,	105.7,	149.7,	-109.6,	24.5,	12	9.1,	122.5,	149.6,	-113.2,	18.1,
13	9.1,	135.6,	144.8,	-113.5,	11.1,	14	9.1,	144.5,	135.7,	-110.2,	3.8,
15	9.1,	149.0,	122.4,	-103.6,	-3.6,	16	9.1,	149.0,	105.4,	-93.9,	-11.0,
17	9.1,	144.5,	85.3,	-81.3,	-17.9,	18	9.1,	136.6,	63.5,	-66.6,	-24.2,
19	9.1,	145.4,	85.7,	-73.1,	-29.9,	20	9.1,	149.7,	105.7,	-77.4,	-34.7,
21	9.1,	149.6,	122.5,	-79.4,	-38.5,	22	9.1,	144.8,	135.6,	-78.9,	-41.0,
23	9.1,	135.7,	144.5,	-76.0,	-42.4,	24	9.1,	122.4,	149.0,	-70.9,	-42.4,
25	9.1,	105.4,	149.0,	-63.6,	-41.2,	26	9.1,	85.3,	144.5,	-54.3,	-38.7,
27	9.1,	63.5,	136.6,	-44.1,	-34.8,	28	9.1,	85.7,	145.4,	-42.8,	-30.2,
29	9.1,	105.7,	149.7,	-40.1,	-24.5,	30	9.1,	122.5,	149.6,	-36.3,	-18.1,
31	9.1,	135.6,	144.8,	-31.4,	-11.1,	32	9.1,	144.5,	135.7,	-25.5,	-3.8,
33	9.1,	149.0,	122.4,	-18.8,	3.6,	34	9.1,	149.0,	105.4,	-11.6,	11.0,
35	9.1,	144.5,	85.3,	-4.0,	17.9,	36	9.1,	136.6,	63.5,	3.1,	24.2,

SOURCE ID: STCK11

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	147.8,	86.1,	-0.5,	-27.9,	2	9.1,	151.9,	107.0,	-6.9,	-20.0,
3	9.1,	151.4,	124.8,	-13.0,	-11.4,	4	9.1,	146.2,	138.7,	-18.8,	-2.5,
5	9.1,	136.6,	148.4,	-24.0,	6.5,	6	9.1,	122.9,	153.6,	-28.4,	15.3,
7	9.1,	105.4,	154.1,	-32.0,	23.7,	8	9.1,	84.8,	150.0,	-34.7,	31.3,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	86.1,	147.8,	-46.0,	42.5,
11	9.1,	107.0,	151.9,	-56.0,	46.6,	12	9.1,	124.8,	151.4,	-64.3,	49.3,
13	9.1,	138.7,	146.2,	-70.6,	50.5,	14	9.1,	148.4,	136.6,	-74.8,	50.2,
15	9.1,	153.6,	122.9,	-76.8,	48.3,	16	9.1,	154.1,	105.4,	-76.4,	45.0,
17	9.1,	150.0,	84.8,	-73.6,	40.3,	18	9.1,	141.3,	63.2,	-68.7,	34.4,
19	9.1,	147.8,	86.1,	-85.5,	27.9,	20	9.1,	151.9,	107.0,	-100.1,	20.0,
21	9.1,	151.4,	124.8,	-111.7,	11.4,	22	9.1,	146.2,	138.7,	-119.9,	2.5,
23	9.1,	136.6,	148.4,	-124.4,	-6.5,	24	9.1,	122.9,	153.6,	-125.1,	-15.3,
25	9.1,	105.4,	154.1,	-122.1,	-23.7,	26	9.1,	84.8,	150.0,	-115.3,	-31.3,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	86.1,	147.8,	-101.9,	-42.5,
29	9.1,	107.0,	151.9,	-95.9,	-46.6,	30	9.1,	124.8,	151.4,	-87.1,	-49.3,
31	9.1,	138.7,	146.2,	-75.6,	-50.5,	32	9.1,	148.4,	136.6,	-61.8,	-50.2,
33	9.1,	153.6,	122.9,	-46.1,	-48.3,	34	9.1,	154.1,	105.4,	-29.1,	-45.0,
35	9.1,	150.0,	84.8,	-11.1,	-40.3,	36	9.1,	141.3,	63.2,	5.5,	-34.4,

SOURCE ID: STCK12

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	147.8,	86.1,	-12.8,	35.7,	2	9.1,	151.9,	107.0,	-30.1,	40.6,
3	9.1,	151.4,	124.8,	-46.4,	44.2,	4	9.1,	146.2,	138.7,	-61.3,	46.5,
5	9.1,	136.6,	148.4,	-74.3,	47.4,	6	9.1,	122.9,	153.6,	-85.1,	46.8,
7	9.1,	105.4,	154.1,	-93.3,	44.8,	8	9.1,	84.8,	150.0,	-98.7,	41.5,
9	9.1,	63.2,	141.3,	-101.1,	36.1,	10	9.1,	86.1,	147.8,	-109.6,	30.2,

11	9.1,	107.0,	151.9,	-116.5,	23.5,	12	9.1,	124.8,	151.4,	-119.9,	16.0,
13	9.1,	138.7,	146.2,	-119.6,	8.1,	14	9.1,	148.4,	136.6,	-115.7,	-0.1,
15	9.1,	153.6,	122.9,	-108.3,	-8.3,	16	9.1,	154.1,	105.4,	-97.6,	-16.3,
17	9.1,	150.0,	84.8,	-83.9,	-23.7,	18	9.1,	141.3,	63.2,	-67.6,	-30.4,
19	9.1,	147.8,	86.1,	-73.3,	-35.7,	20	9.1,	151.9,	107.0,	-77.0,	-40.6,
21	9.1,	151.4,	124.8,	-78.4,	-44.2,	22	9.1,	146.2,	138.7,	-77.4,	-46.5,
23	9.1,	136.6,	148.4,	-74.0,	-47.4,	24	9.1,	122.9,	153.6,	-68.5,	-46.8,
25	9.1,	105.4,	154.1,	-60.8,	-44.8,	26	9.1,	84.8,	150.0,	-51.3,	-41.5,
27	9.1,	63.2,	141.3,	-40.2,	-36.1,	28	9.1,	86.1,	147.8,	-38.2,	-30.2,
29	9.1,	107.0,	151.9,	-35.4,	-23.5,	30	9.1,	124.8,	151.4,	-31.5,	-16.0,
31	9.1,	138.7,	146.2,	-26.6,	-8.1,	32	9.1,	148.4,	136.6,	-20.9,	0.1,
33	9.1,	153.6,	122.9,	-14.6,	8.3,	34	9.1,	154.1,	105.4,	-7.9,	16.3,
35	9.1,	150.0,	84.8,	-0.9,	23.7,	36	9.1,	141.3,	63.2,	4.5,	30.4,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK13

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	86.3,	131.2,	-92.7,	-47.5,	2	9.1,	103.6,	136.9,	-87.0,	-51.6,
3	9.1,	117.9,	138.3,	-78.5,	-54.1,	4	9.1,	128.5,	135.6,	-67.7,	-55.0,
5	9.1,	135.3,	128.7,	-54.9,	-54.2,	6	9.1,	137.9,	118.0,	-40.3,	-51.8,
7	9.1,	136.4,	103.6,	-24.6,	-47.8,	8	9.1,	130.7,	86.1,	-8.1,	-42.3,
9	9.1,	121.9,	66.5,	8.7,	-35.0,	10	9.1,	131.2,	86.3,	4.4,	-27.1,
11	9.1,	136.9,	103.6,	-0.2,	-18.5,	12	9.1,	138.3,	117.9,	-4.8,	-9.4,
13	9.1,	135.6,	128.5,	-9.2,	0.1,	14	9.1,	128.7,	135.3,	-13.4,	9.5,
15	9.1,	118.0,	137.9,	-17.2,	18.7,	16	9.1,	103.6,	136.4,	-20.4,	27.2,
17	9.1,	86.1,	130.7,	-23.1,	35.0,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	86.3,	131.2,	-38.5,	47.5,	20	9.1,	103.6,	136.9,	-49.9,	51.6,
21	9.1,	117.9,	138.3,	-59.8,	54.1,	22	9.1,	128.5,	135.6,	-67.9,	55.0,
23	9.1,	135.3,	128.7,	-73.9,	54.2,	24	9.1,	137.9,	118.0,	-77.6,	51.8,
25	9.1,	136.4,	103.6,	-79.0,	47.8,	26	9.1,	130.7,	86.1,	-78.0,	42.3,
27	9.1,	121.9,	66.5,	-75.1,	35.0,	28	9.1,	131.2,	86.3,	-90.7,	27.1,
29	9.1,	136.9,	103.6,	-103.5,	18.5,	30	9.1,	138.3,	117.9,	-113.1,	9.4,
31	9.1,	135.6,	128.5,	-119.3,	-0.1,	32	9.1,	128.7,	135.3,	-121.9,	-9.5,
33	9.1,	118.0,	137.9,	-120.7,	-18.7,	34	9.1,	103.6,	136.4,	-115.9,	-27.2,
35	9.1,	86.1,	130.7,	-107.6,	-35.0,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK14

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	86.3,	131.2,	-29.3,	-34.6,	2	9.1,	103.6,	136.9,	-26.7,	-27.9,
3	9.1,	117.9,	138.3,	-23.4,	-20.3,	4	9.1,	128.5,	135.6,	-19.2,	-12.1,
5	9.1,	135.3,	128.7,	-14.6,	-3.6,	6	9.1,	137.9,	118.0,	-9.5,	5.1,
7	9.1,	136.4,	103.6,	-4.0,	13.6,	8	9.1,	130.7,	86.1,	1.5,	21.8,

9	9.1,	121.9,	66.5,	7.0,	29.7,	10	9.1,	131.2,	86.3,	-8.5,	36.3,
11	9.1,	136.9,	103.6,	-23.9,	41.7,	12	9.1,	138.3,	117.9,	-38.6,	45.8,
13	9.1,	135.6,	128.5,	-52.1,	48.5,	14	9.1,	128.7,	135.3,	-64.1,	49.8,
15	9.1,	118.0,	137.9,	-74.1,	49.5,	16	9.1,	103.6,	136.4,	-81.8,	47.8,
17	9.1,	86.1,	130.7,	-87.1,	44.5,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	86.3,	131.2,	-101.9,	34.6,	20	9.1,	103.6,	136.9,	-110.1,	27.9,
21	9.1,	117.9,	138.3,	-115.0,	20.3,	22	9.1,	128.5,	135.6,	-116.3,	12.1,
23	9.1,	135.3,	128.7,	-114.2,	3.6,	24	9.1,	137.9,	118.0,	-108.5,	-5.1,
25	9.1,	136.4,	103.6,	-99.6,	-13.6,	26	9.1,	130.7,	86.1,	-87.6,	-21.8,
27	9.1,	121.9,	66.5,	-73.5,	-29.7,	28	9.1,	131.2,	86.3,	-77.8,	-36.3,
29	9.1,	136.9,	103.6,	-79.7,	-41.7,	30	9.1,	138.3,	117.9,	-79.3,	-45.8,
31	9.1,	135.6,	128.5,	-76.4,	-48.5,	32	9.1,	128.7,	135.3,	-71.2,	-49.8,
33	9.1,	118.0,	137.9,	-63.8,	-49.5,	34	9.1,	103.6,	136.4,	-54.5,	-47.8,
35	9.1,	86.1,	130.7,	-43.6,	-44.5,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK15

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	144.3,	83.7,	-0.4,	-26.7,	2	9.1,	148.5,	104.0,	-6.6,	-19.1,
3	9.1,	148.2,	121.2,	-12.7,	-10.9,	4	9.1,	143.4,	134.7,	-18.4,	-2.4,
5	9.1,	134.3,	144.0,	-23.6,	6.1,	6	9.1,	121.1,	149.0,	-28.0,	14.5,
7	9.1,	104.2,	149.5,	-31.6,	22.4,	8	9.1,	84.1,	145.5,	-34.2,	29.7,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	83.7,	144.3,	-45.5,	41.5,
11	9.1,	104.0,	148.5,	-55.2,	45.4,	12	9.1,	121.2,	148.2,	-63.2,	47.9,
13	9.1,	134.7,	143.4,	-69.3,	48.9,	14	9.1,	144.0,	134.3,	-73.3,	48.5,
15	9.1,	149.0,	121.1,	-75.0,	46.5,	16	9.1,	149.5,	104.2,	-74.5,	43.2,
17	9.1,	145.5,	84.1,	-71.7,	38.6,	18	9.1,	137.0,	61.5,	-66.8,	32.8,
19	9.1,	144.3,	83.7,	-83.3,	26.7,	20	9.1,	148.5,	104.0,	-97.4,	19.1,
21	9.1,	148.2,	121.2,	-108.4,	10.9,	22	9.1,	143.4,	134.7,	-116.2,	2.4,
23	9.1,	134.3,	144.0,	-120.5,	-6.1,	24	9.1,	121.1,	149.0,	-121.1,	-14.5,
25	9.1,	104.2,	149.5,	-118.0,	-22.4,	26	9.1,	84.1,	145.5,	-111.3,	-29.7,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	83.7,	144.3,	-98.8,	-41.5,
29	9.1,	104.0,	148.5,	-93.3,	-45.4,	30	9.1,	121.2,	148.2,	-85.0,	-47.9,
31	9.1,	134.7,	143.4,	-74.2,	-48.9,	32	9.1,	144.0,	134.3,	-61.0,	-48.5,
33	9.1,	149.0,	121.1,	-46.1,	-46.5,	34	9.1,	149.5,	104.2,	-29.7,	-43.2,
35	9.1,	145.5,	84.1,	-12.4,	-38.6,	36	9.1,	137.0,	61.5,	5.3,	-32.8,

SOURCE ID: STCK16

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	144.3,	83.7,	-9.6,	35.7,	2	9.1,	148.5,	104.0,	-26.6,	40.7,
3	9.1,	148.2,	121.2,	-42.8,	44.5,	4	9.1,	143.4,	134.7,	-57.6,	46.9,
5	9.1,	134.3,	144.0,	-70.7,	47.9,	6	9.1,	121.1,	149.0,	-81.7,	47.5,
7	9.1,	104.2,	149.5,	-90.2,	45.6,	8	9.1,	84.1,	145.5,	-95.9,	42.3,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	83.7,	144.3,	-107.8,	32.2,
11	9.1,	104.0,	148.5,	-114.9,	25.4,	12	9.1,	121.2,	148.2,	-118.6,	17.8,
13	9.1,	134.7,	143.4,	-118.6,	9.7,	14	9.1,	144.0,	134.3,	-115.1,	1.3,
15	9.1,	149.0,	121.1,	-108.0,	-7.2,	16	9.1,	149.5,	104.2,	-97.6,	-15.4,
17	9.1,	145.5,	84.1,	-84.3,	-23.2,	18	9.1,	137.0,	61.5,	-68.5,	-30.2,
19	9.1,	144.3,	83.7,	-74.1,	-35.7,	20	9.1,	148.5,	104.0,	-77.4,	-40.7,
21	9.1,	148.2,	121.2,	-78.4,	-44.5,	22	9.1,	143.4,	134.7,	-77.0,	-46.9,

23	9.1,	134.3,	144.0,	-73.3,	-47.9,	24	9.1,	121.1,	149.0,	-67.3,	-47.5,
25	9.1,	104.2,	149.5,	-59.3,	-45.6,	26	9.1,	84.1,	145.5,	-49.5,	-42.3,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	83.7,	144.3,	-36.4,	-32.2,
29	9.1,	104.0,	148.5,	-33.5,	-25.4,	30	9.1,	121.2,	148.2,	-29.6,	-17.8,
31	9.1,	134.7,	143.4,	-24.8,	-9.7,	32	9.1,	144.0,	134.3,	-19.2,	-1.3,
33	9.1,	149.0,	121.1,	-13.1,	7.2,	34	9.1,	149.5,	104.2,	-6.5,	15.4,
35	9.1,	145.5,	84.1,	0.2,	23.2,	36	9.1,	137.0,	61.5,	7.0,	30.2,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK18

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	145.4,	85.4,	1.1,	-24.1,	2	9.1,	150.0,	105.4,	-5.4,	-16.2,
3	9.1,	150.0,	122.2,	-11.6,	-7.7,	4	9.1,	145.5,	135.3,	-17.5,	1.0,
5	9.1,	136.6,	144.3,	-22.9,	9.7,	6	9.1,	123.5,	148.9,	-27.6,	18.1,
7	9.1,	106.6,	149.0,	-31.4,	25.9,	8	9.1,	86.5,	144.5,	-34.3,	32.9,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	85.4,	145.4,	-48.6,	43.7,
11	9.1,	105.4,	150.0,	-58.8,	47.3,	12	9.1,	122.2,	150.0,	-67.3,	49.5,
13	9.1,	135.3,	145.5,	-73.8,	50.1,	14	9.1,	144.3,	136.6,	-78.0,	49.3,
15	9.1,	148.9,	123.5,	-79.8,	46.9,	16	9.1,	149.0,	106.6,	-79.2,	43.1,
17	9.1,	144.5,	86.5,	-76.2,	38.0,	18	9.1,	136.4,	63.8,	-70.9,	31.4,
19	9.1,	145.4,	85.4,	-86.4,	24.1,	20	9.1,	150.0,	105.4,	-100.0,	16.2,
21	9.1,	150.0,	122.2,	-110.6,	7.7,	22	9.1,	145.5,	135.3,	-117.8,	-1.0,
23	9.1,	136.6,	144.3,	-121.4,	-9.7,	24	9.1,	123.5,	148.9,	-121.3,	-18.1,
25	9.1,	106.6,	149.0,	-117.6,	-25.9,	26	9.1,	86.5,	144.5,	-110.2,	-32.9,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	85.4,	145.4,	-96.8,	-43.7,
29	9.1,	105.4,	150.0,	-91.1,	-47.3,	30	9.1,	122.2,	150.0,	-82.7,	-49.5,
31	9.1,	135.3,	145.5,	-71.7,	-50.1,	32	9.1,	144.3,	136.6,	-58.6,	-49.3,
33	9.1,	148.9,	123.5,	-43.7,	-46.9,	34	9.1,	149.0,	106.6,	-27.4,	-43.1,
35	9.1,	144.5,	86.5,	-10.4,	-38.0,	36	9.1,	136.4,	63.8,	7.0,	-31.4,

SOURCE ID: STCK19

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	145.4,	85.4,	-11.9,	39.3,	2	9.1,	150.0,	105.4,	-29.1,	44.1,
3	9.1,	150.0,	122.2,	-45.4,	47.5,	4	9.1,	145.5,	135.3,	-60.4,	49.5,
5	9.1,	136.6,	144.3,	-73.5,	50.0,	6	9.1,	123.5,	148.9,	-84.4,	48.9,
7	9.1,	106.6,	149.0,	-92.8,	46.4,	8	9.1,	86.5,	144.5,	-98.3,	42.5,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	85.4,	145.4,	-112.0,	30.8,
11	9.1,	105.4,	150.0,	-119.1,	23.6,	12	9.1,	122.2,	150.0,	-122.5,	15.7,
13	9.1,	135.3,	145.5,	-122.2,	7.2,	14	9.1,	144.3,	136.6,	-118.2,	-1.4,
15	9.1,	148.9,	123.5,	-110.7,	-10.0,	16	9.1,	149.0,	106.6,	-99.7,	-18.3,
17	9.1,	144.5,	86.5,	-85.7,	-26.0,	18	9.1,	136.4,	63.8,	-69.2,	-33.3,
19	9.1,	145.4,	85.4,	-73.5,	-39.3,	20	9.1,	150.0,	105.4,	-76.3,	-44.1,

21	9.1,	150.0,	122.2,	-76.8,	-47.5,	22	9.1,	145.5,	135.3,	-74.9,	-49.5,
23	9.1,	136.6,	144.3,	-70.7,	-50.0,	24	9.1,	123.5,	148.9,	-64.4,	-48.9,
25	9.1,	106.6,	149.0,	-56.2,	-46.4,	26	9.1,	86.5,	144.5,	-46.2,	-42.5,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	85.4,	145.4,	-33.4,	-30.8,
29	9.1,	105.4,	150.0,	-30.9,	-23.6,	30	9.1,	122.2,	150.0,	-27.5,	-15.7,
31	9.1,	135.3,	145.5,	-23.3,	-7.2,	32	9.1,	144.3,	136.6,	-18.3,	1.4,
33	9.1,	148.9,	123.5,	-12.8,	10.0,	34	9.1,	149.0,	106.6,	-6.9,	18.3,
35	9.1,	144.5,	86.5,	-0.8,	26.0,	36	9.1,	136.4,	63.8,	5.3,	33.3,

SOURCE ID: STCK20

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	147.0,	85.4,	-73.6,	-40.5,	2	9.1,	151.3,	106.0,	-76.3,	-45.1,
3	9.1,	150.9,	123.3,	-76.7,	-48.3,	4	9.1,	145.9,	137.0,	-74.8,	-50.1,
5	9.1,	136.6,	146.5,	-70.6,	-50.3,	6	9.1,	123.0,	151.5,	-64.2,	-49.0,
7	9.1,	105.8,	151.9,	-55.9,	-46.2,	8	9.1,	85.3,	147.7,	-45.9,	-42.1,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	85.4,	147.0,	-33.0,	-30.9,
11	9.1,	106.0,	151.3,	-30.5,	-23.4,	12	9.1,	123.3,	150.9,	-27.1,	-15.0,
13	9.1,	137.0,	145.9,	-22.9,	-6.3,	14	9.1,	146.5,	136.6,	-17.9,	2.7,
15	9.1,	151.5,	123.0,	-12.5,	11.5,	16	9.1,	151.9,	105.8,	-6.6,	20.1,
17	9.1,	147.7,	85.3,	-0.6,	28.0,	18	9.1,	139.0,	63.2,	5.5,	35.0,
19	9.1,	147.0,	85.4,	-11.8,	40.5,	20	9.1,	151.3,	106.0,	-29.6,	45.1,
21	9.1,	150.9,	123.3,	-46.6,	48.3,	22	9.1,	145.9,	137.0,	-62.2,	50.1,
23	9.1,	136.6,	146.5,	-75.9,	50.3,	24	9.1,	123.0,	151.5,	-87.3,	49.0,
25	9.1,	105.8,	151.9,	-96.0,	46.2,	26	9.1,	85.3,	147.7,	-101.8,	42.1,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	85.4,	147.0,	-114.0,	30.9,
29	9.1,	106.0,	151.3,	-120.7,	23.4,	30	9.1,	123.3,	150.9,	-123.8,	15.0,
31	9.1,	137.0,	145.9,	-123.1,	6.3,	32	9.1,	146.5,	136.6,	-118.6,	-2.7,
33	9.1,	151.5,	123.0,	-110.5,	-11.5,	34	9.1,	151.9,	105.8,	-99.1,	-20.1,
35	9.1,	147.7,	85.3,	-84.7,	-28.0,	36	9.1,	139.0,	63.2,	-68.7,	-35.0,

SOURCE ID: STCK21

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	147.0,	85.4,	-87.0,	30.6,	2	9.1,	151.3,	106.0,	-101.9,	22.6,
3	9.1,	150.9,	123.3,	-113.6,	13.9,	4	9.1,	145.9,	137.0,	-121.9,	4.8,
5	9.1,	136.6,	146.5,	-126.5,	-4.5,	6	9.1,	123.0,	151.5,	-127.3,	-13.6,
7	9.1,	105.8,	151.9,	-124.2,	-22.3,	8	9.1,	85.3,	147.7,	-117.3,	-30.3,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	85.4,	147.0,	-104.1,	-44.3,
11	9.1,	106.0,	151.3,	-98.2,	-48.9,	12	9.1,	123.3,	150.9,	-89.4,	-52.0,
13	9.1,	137.0,	145.9,	-77.8,	-53.4,	14	9.1,	146.5,	136.6,	-63.8,	-53.3,
15	9.1,	151.5,	123.0,	-47.9,	-51.6,	16	9.1,	151.9,	105.8,	-30.6,	-48.2,
17	9.1,	147.7,	85.3,	-12.3,	-43.5,	18	9.1,	139.0,	63.2,	6.3,	-37.3,
19	9.1,	147.0,	85.4,	1.7,	-30.6,	20	9.1,	151.3,	106.0,	-4.1,	-22.6,
21	9.1,	150.9,	123.3,	-9.7,	-13.9,	22	9.1,	145.9,	137.0,	-15.0,	-4.8,
23	9.1,	136.6,	146.5,	-19.9,	4.5,	24	9.1,	123.0,	151.5,	-24.2,	13.6,
25	9.1,	105.8,	151.9,	-27.7,	22.3,	26	9.1,	85.3,	147.7,	-30.4,	30.3,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	85.4,	147.0,	-42.9,	44.3,
29	9.1,	106.0,	151.3,	-53.0,	48.9,	30	9.1,	123.3,	150.9,	-61.5,	52.0,
31	9.1,	137.0,	145.9,	-68.2,	53.4,	32	9.1,	146.5,	136.6,	-72.7,	53.3,
33	9.1,	151.5,	123.0,	-75.1,	51.6,	34	9.1,	151.9,	105.8,	-75.2,	48.2,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK22

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	49.7,	70.3,	-44.7,	24.0,	2	9.1,	59.0,	73.7,	-50.3,	22.0,
3	9.1,	66.4,	74.8,	-54.4,	19.4,	4	9.1,	71.8,	73.8,	-56.9,	16.2,
5	9.1,	75.1,	70.4,	-57.6,	12.5,	6	9.1,	76.0,	64.9,	-56.6,	8.5,
7	9.1,	74.7,	57.5,	-53.8,	4.1,	8	9.1,	71.1,	48.3,	-49.4,	-0.3,
9	9.1,	65.6,	39.0,	-44.7,	-4.9,	10	9.1,	70.3,	49.8,	-48.8,	-9.5,
11	9.1,	73.7,	59.0,	-51.5,	-13.5,	12	9.1,	74.8,	66.4,	-52.6,	-17.0,
13	9.1,	73.8,	71.8,	-52.2,	-20.0,	14	9.1,	70.4,	75.1,	-50.1,	-22.4,
15	9.1,	64.9,	76.0,	-46.5,	-24.1,	16	9.1,	57.5,	74.7,	-41.5,	-25.1,
17	9.1,	48.3,	71.1,	-35.2,	-25.3,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	49.8,	70.3,	-25.6,	-24.0,	20	9.1,	59.0,	73.7,	-23.4,	-22.0,
21	9.1,	66.4,	74.8,	-20.4,	-19.4,	22	9.1,	71.8,	73.8,	-16.9,	-16.2,
23	9.1,	75.1,	70.4,	-12.8,	-12.5,	24	9.1,	76.0,	64.9,	-8.4,	-8.5,
25	9.1,	74.7,	57.5,	-3.6,	-4.1,	26	9.1,	71.1,	48.3,	1.2,	0.3,
27	9.1,	65.6,	39.0,	5.7,	4.9,	28	9.1,	70.3,	49.8,	-0.9,	9.5,
29	9.1,	73.7,	59.0,	-7.5,	13.5,	30	9.1,	74.8,	66.4,	-13.8,	17.0,
31	9.1,	73.8,	71.8,	-19.7,	20.0,	32	9.1,	70.4,	75.1,	-25.0,	22.4,
33	9.1,	64.9,	76.0,	-29.6,	24.1,	34	9.1,	57.5,	74.7,	-33.2,	25.1,
35	9.1,	48.3,	71.1,	-35.8,	25.3,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK23

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	44.6,	69.9,	-32.1,	-23.6,	2	9.1,	54.0,	72.6,	-29.5,	-22.7,
3	9.1,	61.8,	73.0,	-26.0,	-21.1,	4	9.1,	145.9,	137.0,	-131.2,	71.5,
5	9.1,	136.6,	146.5,	-147.2,	59.6,	6	9.1,	123.0,	151.5,	-158.8,	45.9,
7	9.1,	105.8,	151.9,	-165.6,	30.8,	8	9.1,	85.3,	147.7,	-167.3,	14.8,
9	9.1,	63.2,	139.0,	-163.9,	-2.2,	10	9.1,	85.4,	147.0,	-166.5,	-19.0,
11	9.1,	106.0,	151.3,	-164.1,	-34.8,	12	9.1,	123.3,	150.9,	-156.6,	-49.5,
13	9.1,	137.0,	145.9,	-144.5,	-62.7,	14	9.1,	146.5,	136.6,	-127.9,	-74.0,
15	9.1,	61.3,	73.1,	-23.6,	19.4,	16	9.1,	53.4,	72.5,	-27.0,	21.4,
17	9.1,	43.9,	69.7,	-29.5,	22.6,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	44.6,	69.9,	-37.8,	23.6,	20	9.1,	54.0,	72.6,	-43.1,	22.7,
21	9.1,	61.8,	73.0,	-47.0,	21.1,	22	9.1,	145.9,	137.0,	-5.8,	-71.5,
23	9.1,	136.6,	146.5,	0.8,	-59.6,	24	9.1,	123.0,	151.5,	7.3,	-45.9,
25	9.1,	105.8,	151.9,	13.7,	-30.8,	26	9.1,	69.7,	43.9,	-44.6,	5.3,
27	9.1,	65.2,	34.1,	-40.6,	1.2,	28	9.1,	69.9,	44.6,	-45.9,	-2.8,
29	9.1,	106.0,	151.3,	12.8,	34.8,	30	9.1,	123.3,	150.9,	5.8,	49.5,
31	9.1,	137.0,	145.9,	-1.5,	62.7,	32	9.1,	146.5,	136.6,	-8.7,	74.0,

33	9.1,	61.3,	73.1,	-49.4,	-19.4,	34	9.1,	53.4,	72.5,	-45.5,	-21.4,
35	9.1,	43.9,	69.7,	-40.2,	-22.6,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK24

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	92.2,	143.7,	-99.8,	-46.4,	2	9.1,	111.7,	148.7,	-93.6,	-50.5,
3	9.1,	127.9,	149.2,	-84.6,	-53.0,	4	9.1,	140.2,	145.2,	-73.0,	-53.9,
5	9.1,	148.2,	136.8,	-59.2,	-53.2,	6	9.1,	151.7,	124.2,	-43.6,	-50.9,
7	9.1,	150.6,	107.8,	-26.7,	-47.1,	8	9.1,	144.9,	88.2,	-9.0,	-41.8,
9	9.1,	135.1,	69.8,	6.0,	-35.3,	10	9.1,	143.7,	92.2,	0.3,	-27.9,
11	9.1,	148.7,	111.7,	-5.4,	-19.2,	12	9.1,	149.2,	127.9,	-10.9,	-10.0,
13	9.1,	145.2,	140.2,	-16.1,	-0.4,	14	9.1,	136.8,	148.2,	-20.8,	9.2,
15	9.1,	124.2,	151.7,	-24.9,	18.5,	16	9.1,	107.8,	150.6,	-28.2,	27.2,
17	9.1,	88.2,	144.9,	-30.7,	35.1,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	92.2,	143.7,	-43.9,	46.4,	20	9.1,	111.7,	148.7,	-55.1,	50.5,
21	9.1,	127.9,	149.2,	-64.6,	53.0,	22	9.1,	140.2,	145.2,	-72.2,	53.9,
23	9.1,	148.2,	136.8,	-77.6,	53.2,	24	9.1,	151.7,	124.2,	-80.6,	50.9,
25	9.1,	150.6,	107.8,	-81.1,	47.1,	26	9.1,	144.9,	88.2,	-79.2,	41.8,
27	9.1,	135.1,	69.8,	-75.8,	35.3,	28	9.1,	143.7,	92.2,	-92.5,	27.9,
29	9.1,	148.7,	111.7,	-106.3,	19.2,	30	9.1,	149.2,	127.9,	-117.0,	10.0,
31	9.1,	145.2,	140.2,	-124.0,	0.4,	32	9.1,	136.8,	148.2,	-127.3,	-9.2,
33	9.1,	124.2,	151.7,	-126.8,	-18.5,	34	9.1,	107.8,	150.6,	-122.4,	-27.2,
35	9.1,	88.2,	144.9,	-114.2,	-35.1,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK25

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	92.2,	143.7,	-28.4,	-34.6,	2	9.1,	111.7,	148.7,	-25.3,	-26.5,
3	9.1,	127.9,	149.2,	-21.5,	-17.6,	4	9.1,	140.2,	145.2,	-17.0,	-8.1,
5	9.1,	148.2,	136.8,	-12.0,	1.7,	6	9.1,	151.7,	124.2,	-6.7,	11.3,
7	9.1,	150.6,	107.8,	-1.1,	20.7,	8	9.1,	144.9,	88.2,	4.5,	29.4,
9	9.1,	135.1,	69.8,	6.8,	37.0,	10	9.1,	143.7,	92.2,	-11.5,	43.5,
11	9.1,	148.7,	111.7,	-29.4,	49.0,	12	9.1,	149.2,	127.9,	-46.4,	53.1,
13	9.1,	145.2,	140.2,	-62.0,	55.6,	14	9.1,	136.8,	148.2,	-75.7,	56.3,
15	9.1,	124.2,	151.7,	-87.2,	55.4,	16	9.1,	107.8,	150.6,	-96.0,	52.8,
17	9.1,	88.2,	144.9,	-101.8,	48.5,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	92.2,	143.7,	-115.3,	34.6,	20	9.1,	111.7,	148.7,	-123.4,	26.5,
21	9.1,	127.9,	149.2,	-127.7,	17.6,	22	9.1,	140.2,	145.2,	-128.2,	8.1,
23	9.1,	148.2,	136.8,	-124.7,	-1.7,	24	9.1,	151.7,	124.2,	-117.5,	-11.3,
25	9.1,	150.6,	107.8,	-106.7,	-20.7,	26	9.1,	144.9,	88.2,	-92.6,	-29.4,
27	9.1,	135.1,	69.8,	-76.6,	-37.0,	28	9.1,	143.7,	92.2,	-80.7,	-43.5,
29	9.1,	148.7,	111.7,	-82.4,	-49.0,	30	9.1,	149.2,	127.9,	-81.5,	-53.1,
31	9.1,	145.2,	140.2,	-78.2,	-55.6,	32	9.1,	136.8,	148.2,	-72.4,	-56.3,
33	9.1,	124.2,	151.7,	-64.5,	-55.4,	34	9.1,	107.8,	150.6,	-54.6,	-52.8,
35	9.1,	88.2,	144.9,	-43.1,	-48.5,	36	0.0,	0.0,	0.0,	0.0,	0.0,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK26

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	146.6,	97.9,	-1.7,	-20.8,	2	9.1,	153.0,	117.4,	-8.7,	-12.3,
3	9.1,	154.8,	133.4,	-15.4,	-3.5,	4	9.1,	151.8,	145.3,	-21.6,	5.5,
5	9.1,	144.3,	152.9,	-27.2,	14.2,	6	9.1,	132.4,	155.7,	-31.9,	22.6,
7	9.1,	116.4,	153.9,	-35.7,	30.2,	8	9.1,	96.9,	147.3,	-38.4,	36.9,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	97.9,	146.6,	-52.5,	47.2,
11	9.1,	117.4,	153.0,	-64.2,	50.0,	12	9.1,	133.4,	154.8,	-73.9,	51.3,
13	9.1,	145.3,	151.8,	-81.4,	51.1,	14	9.1,	152.9,	144.3,	-86.4,	49.3,
15	9.1,	155.7,	132.4,	-88.8,	45.9,	16	9.1,	153.9,	116.4,	-88.4,	41.2,
17	9.1,	147.3,	96.9,	-85.4,	35.3,	18	9.1,	136.3,	75.3,	-80.6,	28.3,
19	9.1,	146.6,	97.9,	-96.2,	20.8,	20	9.1,	153.0,	117.4,	-108.8,	12.3,
21	9.1,	154.8,	133.4,	-118.0,	3.5,	22	9.1,	151.8,	145.3,	-123.8,	-5.5,
23	9.1,	144.3,	152.9,	-125.7,	-14.2,	24	9.1,	132.4,	155.7,	-123.8,	-22.6,
25	9.1,	116.4,	153.9,	-118.2,	-30.2,	26	9.1,	96.9,	147.3,	-109.0,	-36.9,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	97.9,	146.6,	-94.0,	-47.2,
29	9.1,	117.4,	153.0,	-88.8,	-50.0,	30	9.1,	133.4,	154.8,	-80.9,	-51.3,
31	9.1,	145.3,	151.8,	-70.5,	-51.1,	32	9.1,	152.9,	144.3,	-57.9,	-49.3,
33	9.1,	155.7,	132.4,	-43.6,	-45.9,	34	9.1,	153.9,	116.4,	-28.0,	-41.2,
35	9.1,	147.3,	96.9,	-11.5,	-35.3,	36	9.1,	136.3,	75.3,	5.3,	-28.3,

SOURCE ID: STCK27

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	146.6,	97.9,	-10.3,	33.7,	2	9.1,	153.0,	117.4,	-26.6,	39.8,
3	9.1,	154.8,	133.4,	-42.0,	44.7,	4	9.1,	151.8,	145.3,	-56.2,	48.3,
5	9.1,	144.3,	152.9,	-68.7,	50.4,	6	9.1,	132.4,	155.7,	-79.1,	51.0,
7	9.1,	116.4,	153.9,	-87.1,	50.0,	8	9.1,	96.9,	147.3,	-92.5,	47.5,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	97.9,	146.6,	-107.0,	38.6,
11	9.1,	117.4,	153.0,	-116.3,	32.1,	12	9.1,	133.4,	154.8,	-122.1,	24.7,
13	9.1,	145.3,	151.8,	-124.2,	16.4,	14	9.1,	152.9,	144.3,	-122.6,	7.7,
15	9.1,	155.7,	132.4,	-117.2,	-1.3,	16	9.1,	153.9,	116.4,	-108.2,	-10.2,
17	9.1,	147.3,	96.9,	-96.0,	-18.8,	18	9.1,	136.3,	75.3,	-81.6,	-26.8,
19	9.1,	146.6,	97.9,	-87.6,	-33.7,	20	9.1,	153.0,	117.4,	-90.8,	-39.8,
21	9.1,	154.8,	133.4,	-91.4,	-44.7,	22	9.1,	151.8,	145.3,	-89.1,	-48.3,
23	9.1,	144.3,	152.9,	-84.1,	-50.4,	24	9.1,	132.4,	155.7,	-76.6,	-51.0,
25	9.1,	116.4,	153.9,	-66.7,	-50.0,	26	9.1,	96.9,	147.3,	-54.9,	-47.5,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	97.9,	146.6,	-39.6,	-38.6,
29	9.1,	117.4,	153.0,	-36.7,	-32.1,	30	9.1,	133.4,	154.8,	-32.6,	-24.7,
31	9.1,	145.3,	151.8,	-27.6,	-16.4,	32	9.1,	152.9,	144.3,	-21.7,	-7.7,
33	9.1,	155.7,	132.4,	-15.2,	1.3,	34	9.1,	153.9,	116.4,	-8.2,	10.2,
35	9.1,	147.3,	96.9,	-1.0,	18.8,	36	9.1,	136.3,	75.3,	6.3,	26.8,

SOURCE ID: STCK28

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ

1	9.1,	49.3,	82.2,	-36.8,	-22.8,	2	9.1,	60.6,	84.5,	-34.0,	-21.6,
3	9.1,	70.1,	84.2,	-30.3,	-19.8,	4	9.1,	151.8,	145.3,	-133.3,	77.8,
5	9.1,	144.3,	152.9,	-149.7,	66.1,	6	9.1,	132.4,	155.7,	-161.6,	52.3,
7	9.1,	116.4,	153.9,	-168.6,	37.0,	8	9.1,	96.9,	147.3,	-170.5,	20.6,
9	9.1,	75.3,	136.3,	-167.1,	3.9,	10	9.1,	97.9,	146.6,	-171.0,	-13.4,
11	9.1,	117.4,	153.0,	-170.4,	-30.2,	12	9.1,	133.4,	154.8,	-164.6,	-46.1,
13	9.1,	145.3,	151.8,	-153.7,	-60.6,	14	9.1,	152.9,	144.3,	-138.2,	-73.3,
15	9.1,	68.5,	84.9,	-31.3,	20.2,	16	9.1,	58.8,	84.8,	-35.0,	21.8,
17	9.1,	47.3,	82.1,	-37.6,	22.8,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	49.3,	82.2,	-45.4,	22.8,	20	9.1,	60.6,	84.5,	-50.4,	21.6,
21	9.1,	70.1,	84.2,	-53.9,	19.8,	22	9.1,	151.8,	145.3,	-12.0,	-77.8,
23	9.1,	144.3,	152.9,	-3.1,	-66.1,	24	9.1,	132.4,	155.7,	5.9,	-52.3,
25	9.1,	116.4,	153.9,	14.7,	-37.0,	26	9.1,	82.1,	47.3,	-46.4,	3.5,
27	9.1,	77.4,	36.5,	-41.5,	-0.3,	28	9.1,	82.2,	49.3,	-47.4,	-4.3,
29	9.1,	117.4,	153.0,	17.4,	30.2,	30	9.1,	133.4,	154.8,	9.8,	46.1,
31	9.1,	145.3,	151.8,	1.9,	60.6,	32	9.1,	152.9,	144.3,	-6.1,	73.3,
33	9.1,	68.5,	84.9,	-53.5,	-20.2,	34	9.1,	58.8,	84.8,	-49.8,	-21.8,
35	9.1,	47.3,	82.1,	-44.5,	-22.8,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK29

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	93.5,	159.3,	-108.7,	-51.0,	2	9.1,	115.9,	163.6,	-101.5,	-55.1,
3	9.1,	134.7,	163.0,	-91.3,	-57.6,	4	9.1,	149.5,	157.3,	-78.2,	-58.3,
5	9.1,	159.8,	146.9,	-62.9,	-57.3,	6	9.1,	165.2,	132.1,	-45.6,	-54.5,
7	9.1,	165.6,	113.2,	-26.9,	-50.1,	8	9.1,	160.9,	90.9,	-7.4,	-44.1,
9	9.1,	77.4,	36.5,	-80.2,	40.4,	10	9.1,	82.2,	49.3,	-92.7,	29.0,
11	9.1,	84.5,	60.6,	-102.4,	16.8,	12	9.1,	84.2,	70.1,	-109.0,	4.0,
13	9.1,	81.4,	77.4,	-112.3,	-8.9,	14	9.1,	76.1,	82.4,	-112.1,	-21.6,
15	9.1,	68.5,	84.9,	-108.6,	-33.5,	16	9.1,	113.2,	165.6,	-32.7,	29.7,
17	9.1,	90.9,	160.9,	-36.3,	38.1,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	93.5,	159.3,	-50.6,	51.0,	20	9.1,	115.9,	163.6,	-62.1,	55.1,
21	9.1,	134.7,	163.0,	-71.7,	57.6,	22	9.1,	149.5,	157.3,	-79.1,	58.3,
23	9.1,	159.8,	146.9,	-84.1,	57.3,	24	9.1,	165.2,	132.1,	-86.5,	54.5,
25	9.1,	165.6,	113.2,	-86.3,	50.1,	26	9.1,	160.9,	90.9,	-83.5,	44.1,
27	9.1,	151.4,	68.2,	-79.4,	36.8,	28	9.1,	159.3,	93.5,	-97.7,	29.0,
29	9.1,	163.6,	115.9,	-113.0,	19.7,	30	9.1,	163.0,	134.7,	-125.0,	9.8,
31	9.1,	157.3,	149.5,	-133.1,	-0.4,	32	9.1,	146.9,	159.8,	-137.2,	-10.6,
33	9.1,	132.1,	165.2,	-137.1,	-20.5,	34	9.1,	113.2,	165.6,	-132.9,	-29.7,
35	9.1,	90.9,	160.9,	-124.6,	-38.1,	36	0.0,	0.0,	0.0,	0.0,	0.0,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK30

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	93.5,	159.3,	-44.0,	-39.4,	2	9.1,	115.9,	163.6,	-39.9,	-32.5,
3	9.1,	134.7,	163.0,	-34.5,	-24.6,	4	9.1,	149.5,	157.3,	-28.1,	-16.0,
5	9.1,	159.8,	146.9,	-20.8,	-6.9,	6	9.1,	165.2,	132.1,	-12.9,	2.4,
7	9.1,	165.6,	113.2,	-4.6,	11.7,	8	9.1,	160.9,	90.9,	3.8,	20.6,
9	9.1,	151.4,	68.2,	11.0,	28.8,	10	9.1,	159.3,	93.5,	-7.3,	35.6,
11	9.1,	163.6,	115.9,	-25.4,	41.9,	12	9.1,	163.0,	134.7,	-42.8,	47.0,
13	9.1,	157.3,	149.5,	-58.8,	50.6,	14	9.1,	146.9,	159.8,	-73.0,	52.7,
15	9.1,	132.1,	165.2,	-85.0,	53.1,	16	9.1,	113.2,	165.6,	-94.5,	52.0,
17	9.1,	90.9,	160.9,	-101.0,	49.3,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	93.5,	159.3,	-115.3,	39.4,	20	9.1,	115.9,	163.6,	-123.7,	32.5,
21	9.1,	134.7,	163.0,	-128.5,	24.6,	22	9.1,	149.5,	157.3,	-129.2,	16.0,
23	9.1,	159.8,	146.9,	-126.1,	6.9,	24	9.1,	165.2,	132.1,	-119.2,	-2.4,
25	9.1,	165.6,	113.2,	-108.6,	-11.7,	26	9.1,	160.9,	90.9,	-94.7,	-20.6,
27	9.1,	151.4,	68.2,	-79.2,	-28.8,	28	9.1,	159.3,	93.5,	-86.1,	-35.6,
29	9.1,	163.6,	115.9,	-90.4,	-41.9,	30	9.1,	163.0,	134.7,	-92.0,	-47.0,
31	9.1,	157.3,	149.5,	-90.8,	-50.6,	32	9.1,	146.9,	159.8,	-86.8,	-52.7,
33	9.1,	132.1,	165.2,	-80.1,	-53.1,	34	9.1,	113.2,	165.6,	-71.1,	-52.0,
35	9.1,	90.9,	160.9,	-59.9,	-49.3,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK31

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	49.2,	81.9,	-43.7,	-25.6,	2	9.1,	60.6,	84.2,	-40.4,	-25.6,
3	9.1,	153.9,	131.1,	-120.9,	79.1,	4	9.1,	150.5,	143.5,	-140.0,	68.2,
5	9.1,	142.5,	151.6,	-154.9,	55.2,	6	9.1,	130.2,	155.1,	-165.0,	40.5,
7	9.1,	113.9,	153.8,	-170.2,	24.6,	8	9.1,	94.2,	147.9,	-170.2,	8.0,
9	9.1,	72.4,	137.5,	-165.0,	-8.5,	10	9.1,	94.8,	146.8,	-166.8,	-24.9,
11	9.1,	114.7,	152.7,	-163.9,	-40.7,	12	9.1,	131.1,	153.9,	-156.1,	-55.3,
13	9.1,	143.5,	150.5,	-143.4,	-68.2,	14	9.1,	151.6,	142.5,	-126.5,	-79.1,
15	9.1,	68.3,	85.4,	-24.2,	17.6,	16	9.1,	58.6,	85.5,	-27.6,	20.5,
17	9.1,	47.2,	82.9,	-30.2,	22.8,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	49.2,	81.9,	-38.2,	25.6,	20	9.1,	60.6,	84.2,	-43.8,	25.6,
21	9.1,	153.9,	131.1,	-10.2,	-79.1,	22	9.1,	150.5,	143.5,	-3.5,	-68.2,
23	9.1,	142.5,	151.6,	3.3,	-55.2,	24	9.1,	130.2,	155.1,	10.0,	-40.5,
25	9.1,	113.9,	153.8,	16.4,	-24.6,	26	9.1,	82.9,	47.2,	-46.4,	11.3,
27	9.1,	77.8,	36.2,	-42.8,	7.1,	28	9.1,	81.9,	49.2,	-50.1,	2.7,
29	9.1,	114.7,	152.7,	11.3,	40.7,	30	9.1,	131.1,	153.9,	2.1,	55.3,
31	9.1,	143.5,	150.5,	-7.1,	68.2,	32	9.1,	151.6,	142.5,	-16.1,	79.1,
33	9.1,	68.3,	85.4,	-61.2,	-17.6,	34	9.1,	58.6,	85.5,	-57.8,	-20.5,
35	9.1,	47.2,	82.9,	-52.7,	-22.8,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK32

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	146.8,	94.8,	-86.2,	-36.4,	2	9.1,	152.7,	114.7,	-89.2,	-42.8,
3	9.1,	153.9,	131.1,	-89.5,	-47.8,	4	9.1,	150.5,	143.5,	-87.1,	-51.3,
5	9.1,	142.5,	151.6,	-82.0,	-53.3,	6	9.1,	130.2,	155.1,	-74.5,	-53.7,
7	9.1,	113.9,	153.8,	-64.6,	-52.4,	8	9.1,	94.2,	147.9,	-52.9,	-49.6,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	94.8,	146.8,	-36.9,	-38.8,
11	9.1,	114.7,	152.7,	-33.6,	-31.9,	12	9.1,	131.1,	153.9,	-29.2,	-24.0,

13	9.1,	143.5,	150.5,	-23.9,	-15.4,	14	9.1,	151.6,	142.5,	-18.0,	-6.2,
15	9.1,	155.1,	130.2,	-11.4,	3.1,	16	9.1,	153.8,	113.9,	-4.5,	12.3,
17	9.1,	147.9,	94.2,	2.5,	21.1,	18	9.1,	137.5,	72.4,	8.6,	29.3,
19	9.1,	146.8,	94.8,	-8.5,	36.4,	20	9.1,	152.7,	114.7,	-25.4,	42.8,
21	9.1,	153.9,	131.1,	-41.6,	47.8,	22	9.1,	150.5,	143.5,	-56.4,	51.3,
23	9.1,	142.5,	151.6,	-69.6,	53.3,	24	9.1,	130.2,	155.1,	-80.6,	53.7,
25	9.1,	113.9,	153.8,	-89.2,	52.4,	26	9.1,	94.2,	147.9,	-95.0,	49.6,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	94.8,	146.8,	-109.8,	38.8,
29	9.1,	114.7,	152.7,	-119.1,	31.9,	30	9.1,	131.1,	153.9,	-124.7,	24.0,
31	9.1,	143.5,	150.5,	-126.6,	15.4,	32	9.1,	151.6,	142.5,	-124.6,	6.2,
33	9.1,	155.1,	130.2,	-118.8,	-3.1,	34	9.1,	153.8,	113.9,	-109.4,	-12.3,
35	9.1,	147.9,	94.2,	-96.7,	-21.1,	36	9.1,	137.5,	72.4,	-81.0,	-29.3,

SOURCE ID: STCK33

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	146.8,	94.8,	-97.7,	32.1,	2	9.1,	152.7,	114.7,	-112.4,	22.8,
3	9.1,	153.9,	131.1,	-123.8,	12.8,	4	9.1,	150.5,	143.5,	-131.3,	2.3,
5	9.1,	142.5,	151.6,	-134.9,	-8.1,	6	9.1,	130.2,	155.1,	-134.4,	-18.4,
7	9.1,	113.9,	153.8,	-129.8,	-28.1,	8	9.1,	94.2,	147.9,	-121.2,	-36.9,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	94.8,	146.8,	-105.5,	-50.3,
11	9.1,	114.7,	152.7,	-99.1,	-55.1,	12	9.1,	131.1,	153.9,	-89.7,	-58.2,
13	9.1,	143.5,	150.5,	-77.6,	-59.6,	14	9.1,	151.6,	142.5,	-63.1,	-59.1,
15	9.1,	155.1,	130.2,	-46.7,	-56.8,	16	9.1,	153.8,	113.9,	-28.9,	-52.9,
17	9.1,	147.9,	94.2,	-10.2,	-47.3,	18	9.1,	137.5,	72.4,	8.0,	-40.2,
19	9.1,	146.8,	94.8,	2.9,	-32.1,	20	9.1,	152.7,	114.7,	-2.2,	-22.8,
21	9.1,	153.9,	131.1,	-7.3,	-12.8,	22	9.1,	150.5,	143.5,	-12.2,	-2.3,
23	9.1,	142.5,	151.6,	-16.7,	8.1,	24	9.1,	130.2,	155.1,	-20.7,	18.4,
25	9.1,	113.9,	153.8,	-24.1,	28.1,	26	9.1,	94.2,	147.9,	-26.7,	36.9,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	94.8,	146.8,	-41.2,	50.3,
29	9.1,	114.7,	152.7,	-53.5,	55.1,	30	9.1,	131.1,	153.9,	-64.2,	58.2,
31	9.1,	143.5,	150.5,	-72.9,	59.6,	32	9.1,	151.6,	142.5,	-79.4,	59.1,
33	9.1,	155.1,	130.2,	-83.5,	56.8,	34	9.1,	153.8,	113.9,	-85.0,	52.9,
35	9.1,	147.9,	94.2,	-84.0,	47.3,	36	9.1,	137.5,	72.4,	-80.4,	40.2,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK34

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	47.7,	51.1,	-54.0,	-7.5,	2	9.1,	53.4,	55.7,	-54.7,	-12.2,
3	9.1,	57.4,	58.6,	-53.7,	-16.7,	4	9.1,	83.6,	79.5,	-108.7,	37.4,
5	9.1,	80.2,	83.1,	-116.0,	24.8,	6	9.1,	74.3,	84.1,	-119.6,	11.5,
7	9.1,	66.1,	82.6,	-119.7,	-2.1,	8	9.1,	56.0,	78.6,	-116.1,	-15.7,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	51.1,	47.7,	-16.4,	-28.5,

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  11    9.1,   55.7,   53.4,  -14.5,  -26.9,     12    9.1,   58.6,   57.4,  -12.1,  -24.4,
  13    9.1,   59.7,   59.7,   -9.3,  -21.2,     14    9.1,   59.0,   60.2,   -6.3,  -17.4,
  15    9.1,   68.3,   85.4, -107.3,   35.0,     16    9.1,   58.6,   85.5, -112.4,   23.2,
  17    9.1,   47.2,   82.9, -114.1,   10.7,     18    9.1,   36.2,   77.8, -112.4,   -1.8,
  19    9.1,   49.2,   81.9, -113.0,  -14.5,     20    9.1,   60.6,   84.2, -110.5,  -26.8,
  21    9.1,   70.2,   84.0, -104.6,  -38.3,     22    9.1,   59.7,   59.7,   -8.6,   20.6,
  23    9.1,   60.2,   59.0,  -12.1,   23.8,     24    9.1,   58.9,   56.5,  -15.2,   26.4,
  25    9.1,   55.7,   52.3,  -17.9,   28.1,     26    9.1,   50.9,   46.5,  -20.0,   29.0,
  27    0.0,    0.0,    0.0,    0.0,    0.0,     28    9.1,   51.1,   47.7,  -31.4,   28.5,
  29    9.1,   55.7,   53.4,  -39.0,   26.9,     30    9.1,   58.6,   57.4,  -45.4,   24.4,
  31    9.1,   59.7,   59.7,  -50.4,   21.2,     32    9.1,   59.0,   60.2,  -53.9,   17.4,
  33    9.1,   56.5,   58.9,  -55.8,   13.0,     34    9.1,   52.3,   55.7,  -56.0,    8.3,
  35    9.1,   46.5,   50.9,  -54.5,    3.3,     36    9.1,   40.6,   44.9,  -51.7,   -2.5,


*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 1st 14 yr                    ***        05/24/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 1st 14 yr                           ***        20:34:00
                                                                                                                PAGE 159
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                    *** GRIDDED RECEPTOR NETWORK SUMMARY ***

                                 *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART ***

                                         *** X-COORDINATES OF GRID ***
                                                 (METERS)

     541890.5,  542097.6,  542304.7,  542511.8,  542718.9,  542926.0,  543133.1,  543340.2,  543547.3,  543754.4,
     543961.5,  544168.6,  544375.7,  544582.8,  544789.9,  544997.0,  545204.1,  545411.2,  545618.3,  545825.4,
     546032.5,

                                         *** Y-COORDINATES OF GRID ***
                                                 (METERS)

    3753173.3, 3753374.4, 3753575.4, 3753776.4, 3753977.5, 3754178.5, 3754379.5, 3754580.6, 3754781.6, 3754982.6,
    3755183.6, 3755384.7, 3755585.7, 3755786.7, 3755987.8, 3756188.8, 3756389.8, 3756590.9, 3756791.9, 3756992.9,
    3757193.9,

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 1st 14 yr                    ***        05/24/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 1st 14 yr                           ***        20:34:00
                                                                                                                PAGE 160
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                 *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART ***

                                       * ELEVATION HEIGHTS IN METERS *

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     541890.52    542097.62    542304.72    542511.82    542718.92    542926.02    543133.12    543340.22    543547.32
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

3757193.95	346.00	341.60	338.70	336.40	334.60	332.50	329.70	327.90	324.10
3756992.92	341.40	337.70	334.80	332.10	330.40	329.00	325.70	323.90	321.10
3756791.89	337.40	333.80	330.80	327.80	325.80	323.90	322.00	319.50	317.30
3756590.86	332.50	329.40	326.70	324.10	321.50	319.80	316.90	315.40	313.90
3756389.83	328.10	325.30	322.30	319.70	317.30	315.70	312.80	311.70	310.70
3756188.80	323.50	320.70	317.80	315.30	313.50	311.80	309.40	307.30	306.40
3755987.77	319.10	316.20	313.70	311.10	309.20	307.00	305.50	303.50	302.30
3755786.74	314.70	311.60	309.80	307.70	305.70	303.40	301.60	300.30	298.60
3755585.71	310.10	307.60	306.10	303.80	301.70	299.50	297.60	296.70	294.40
3755384.68	305.70	303.00	301.50	299.70	297.40	295.20	294.00	293.00	291.10
3755183.65	301.00	298.40	296.90	295.50	293.30	290.70	289.70	289.00	287.40
3754982.62	296.00	294.10	292.50	291.20	289.20	286.80	286.40	284.90	283.50
3754781.59	291.10	289.50	287.90	286.40	284.80	283.00	281.60	280.60	279.80
3754580.56	286.20	284.80	283.50	281.90	280.30	278.80	277.60	276.70	275.50
3754379.53	281.10	279.80	278.90	277.30	275.90	274.40	273.80	272.80	271.60
3754178.50	276.10	275.30	274.20	272.70	271.50	270.00	269.60	269.20	267.70
3753977.47	270.90	270.20	269.20	268.10	267.00	265.70	265.30	264.80	263.80
3753776.44	265.90	265.30	264.80	263.80	262.40	261.40	261.10	260.70	260.10
3753575.41	261.20	260.80	260.50	259.70	258.70	256.90	257.30	257.00	256.70
3753374.38	257.20	256.20	256.10	255.60	254.70	253.50	253.30	253.10	252.80
3753173.35	252.00	251.20	251.30	250.90	250.20	249.50	249.60	249.50	248.90

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 543754.42	543961.52	544168.62	544375.72	544582.82	544789.92	544997.02	545204.12	545411.22
3757193.95	323.90	320.00	318.60	317.60	314.80	311.80	311.80	309.60	307.50
3756992.92	318.70	317.20	315.00	313.60	312.30	308.30	307.20	305.30	303.90
3756791.89	314.80	313.50	311.10	309.60	308.20	306.50	304.20	302.40	300.50
3756590.86	310.80	309.80	307.50	305.20	304.20	302.60	300.50	299.30	297.20
3756389.83	307.90	306.00	304.40	302.00	301.20	298.90	297.30	295.50	293.80
3756188.80	304.20	302.50	300.10	299.40	298.10	295.10	294.00	291.60	290.40
3755987.77	300.60	299.10	297.10	295.10	293.60	291.90	290.40	288.70	287.00
3755786.74	296.60	295.00	293.30	291.50	290.50	289.00	287.00	285.60	283.80
3755585.71	292.70	291.00	289.80	288.20	287.40	286.00	284.10	282.10	280.40
3755384.68	288.50	287.00	286.30	285.20	283.80	282.60	281.10	278.90	277.00
3755183.65	285.40	283.50	282.70	282.00	281.00	279.20	277.50	276.00	273.60
3754982.62	281.20	279.90	279.10	278.20	276.90	275.30	273.60	272.80	270.80
3754781.59	277.70	276.30	275.60	274.40	273.30	272.20	270.80	269.30	268.20
3754580.56	273.90	272.90	272.20	270.90	269.80	268.90	268.10	266.60	265.00
3754379.53	270.30	268.90	269.00	267.40	266.20	265.20	264.80	263.20	261.80
3754178.50	266.70	265.60	264.90	263.90	262.60	261.70	261.30	260.60	258.70

3753977.47	263.10	261.90	261.20	260.40	259.40	258.70	258.30	257.50	256.50
3753776.44	258.80	257.20	258.10	257.20	256.20	255.40	254.90	254.20	253.10
3753575.41	255.40	255.00	254.70	253.90	252.70	251.50	251.10	250.80	249.80
3753374.38	252.40	251.00	251.50	250.60	249.40	248.50	247.90	247.10	246.50
3753173.35	248.70	247.70	247.50	247.20	246.20	244.90	244.90	243.20	243.20

*** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 545618.32	545825.42	546032.52
3757193.95	305.20	303.50	302.40
3756992.92	301.80	299.30	297.30
3756791.89	299.30	295.70	293.00
3756590.86	295.30	292.70	289.80
3756389.83	292.00	289.30	286.90
3756188.80	288.70	286.00	283.80
3755987.77	285.30	283.00	280.30
3755786.74	281.80	280.10	277.70
3755585.71	279.00	277.10	275.20
3755384.68	275.70	274.00	272.10
3755183.65	272.50	270.70	269.20
3754982.62	269.30	267.80	265.80
3754781.59	266.30	264.80	262.90
3754580.56	263.50	262.10	260.40
3754379.53	260.90	259.40	258.00
3754178.50	258.30	256.90	256.20
3753977.47	255.80	254.20	252.60
3753776.44	252.50	251.20	249.60
3753575.41	249.30	248.00	246.70
3753374.38	246.00	244.70	243.60
3753173.35	242.90	241.60	240.50

*** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS) | X-COORD (METERS)

(METERS)	541890.52	542097.62	542304.72	542511.82	542718.92	542926.02	543133.12	543340.22	543547.32
3757193.95	346.00	341.60	338.70	336.40	334.60	332.50	329.70	327.90	324.10
3756992.92	341.40	337.70	334.80	332.10	330.40	329.00	325.70	323.90	321.10
3756791.89	337.40	333.80	330.80	327.80	325.80	323.90	322.00	319.50	317.30
3756590.86	332.50	329.40	326.70	324.10	321.50	319.80	316.90	315.40	313.90
3756389.83	328.10	325.30	322.30	319.70	317.30	315.70	312.80	311.70	310.70
3756188.80	323.50	320.70	317.80	315.30	313.50	311.80	309.40	307.30	306.40
3755987.77	319.10	316.20	313.70	311.10	309.20	307.00	305.50	303.50	302.30
3755786.74	314.70	311.60	309.80	307.70	305.70	303.40	301.60	300.30	298.60
3755585.71	310.10	307.60	306.10	303.80	301.70	299.50	297.60	296.70	294.40
3755384.68	305.70	303.00	301.50	299.70	297.40	295.20	294.00	293.00	291.10
3755183.65	301.00	298.40	296.90	295.50	293.30	290.70	289.70	289.00	287.40
3754982.62	296.00	294.10	292.50	291.20	289.20	286.80	286.40	284.90	283.50
3754781.59	291.10	289.50	287.90	286.40	284.80	283.00	281.60	280.60	279.80
3754580.56	286.20	284.80	283.50	281.90	280.30	278.80	277.60	276.70	275.50
3754379.53	281.10	279.80	278.90	277.30	275.90	274.40	273.80	272.80	271.60
3754178.50	276.10	275.30	274.20	272.70	271.50	270.00	269.60	269.20	267.70
3753977.47	270.90	270.20	269.20	268.10	267.00	265.70	265.30	264.80	263.80
3753776.44	265.90	265.30	264.80	263.80	262.40	261.40	261.10	260.70	260.10
3753575.41	261.20	260.80	260.50	259.70	258.70	256.90	257.30	257.00	256.70
3753374.38	257.20	256.20	256.10	255.60	254.70	253.50	253.30	253.10	252.80
3753173.35	252.00	251.20	251.30	250.90	250.20	249.50	249.60	249.50	248.90

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 543754.42	543961.52	544168.62	544375.72	544582.82	544789.92	544997.02	545204.12	545411.22
3757193.95	323.90	320.00	318.60	317.60	314.80	311.80	311.80	309.60	307.50
3756992.92	318.70	317.20	315.00	313.60	312.30	308.30	307.20	305.30	303.90
3756791.89	314.80	313.50	311.10	309.60	308.20	306.50	304.20	302.40	300.50
3756590.86	310.80	309.80	307.50	305.20	304.20	302.60	300.50	299.30	297.20
3756389.83	307.90	306.00	304.40	302.00	301.20	298.90	297.30	295.50	293.80
3756188.80	304.20	302.50	300.10	299.40	298.10	295.10	294.00	291.60	290.40
3755987.77	300.60	299.10	297.10	295.10	293.60	291.90	290.40	288.70	287.00
3755786.74	296.60	295.00	293.30	291.50	290.50	289.00	287.00	285.60	283.80
3755585.71	292.70	291.00	289.80	288.20	287.40	286.00	284.10	282.10	280.40
3755384.68	288.50	287.00	286.30	285.20	283.80	282.60	281.10	278.90	277.00
3755183.65	285.40	283.50	282.70	282.00	281.00	279.20	277.50	276.00	273.60
3754982.62	281.20	279.90	279.10	278.20	276.90	275.30	273.60	272.80	270.80
3754781.59	277.70	276.30	275.60	274.40	273.30	272.20	270.80	269.30	268.20

3754580.56	273.90	272.90	272.20	270.90	269.80	268.90	268.10	266.60	265.00
3754379.53	270.30	268.90	269.00	267.40	266.20	265.20	264.80	263.20	261.80
3754178.50	266.70	265.60	264.90	263.90	262.60	261.70	261.30	260.60	258.70
3753977.47	263.10	261.90	261.20	260.40	259.40	258.70	258.30	257.50	256.50
3753776.44	258.80	257.20	258.10	257.20	256.20	255.40	254.90	254.20	253.10
3753575.41	255.40	255.00	254.70	253.90	252.70	251.50	251.10	250.80	249.80
3753374.38	252.40	251.00	251.50	250.60	249.40	248.50	247.90	247.10	246.50
3753173.35	248.70	247.70	247.50	247.20	246.20	244.90	244.90	243.20	243.20

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	545618.32	545825.42	546032.52
3757193.95	305.20	303.50	302.40
3756992.92	301.80	299.30	297.30
3756791.89	299.30	295.70	293.00
3756590.86	295.30	292.70	289.80
3756389.83	292.00	289.30	286.90
3756188.80	288.70	286.00	283.80
3755987.77	285.30	283.00	280.30
3755786.74	281.80	280.10	277.70
3755585.71	279.00	277.10	275.20
3755384.68	275.70	274.00	272.10
3755183.65	272.50	270.70	269.20
3754982.62	269.30	267.80	265.80
3754781.59	266.30	264.80	262.90
3754580.56	263.50	262.10	260.40
3754379.53	260.90	259.40	258.00
3754178.50	258.30	256.90	256.20
3753977.47	255.80	254.20	252.60
3753776.44	252.50	251.20	249.60
3753575.41	249.30	248.00	246.70
3753374.38	246.00	244.70	243.60
3753173.35	242.90	241.60	240.50

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)

(METERS)

```
    ( 544500.6, 3754666.1,     271.7,     271.7,       0.0);        ( 544584.3, 3754650.7,     271.0,     271.0,       0.0);
    ( 544743.7, 3754712.4,     271.3,     271.3,       0.0);        ( 544823.4, 3754797.3,     272.3,     272.3,       0.0);
    ( 543275.5, 3754553.0,     276.5,     276.5,       0.0);        ( 542202.5, 3753909.1,     268.2,     268.2,       0.0);
    ( 542020.5, 3753897.7,     268.8,     268.8,       0.0);        ( 542046.1, 3753764.4,     265.1,     265.1,       0.0);
    ( 544597.4, 3754047.3,     260.5,     260.5,       0.0);        ( 545870.8, 3753922.6,     253.0,     253.0,       0.0);
    ( 543677.7, 3756399.9,     308.6,     308.6,       0.0);        ( 544963.5, 3756388.6,     297.5,     297.5,       0.0);
    ( 545339.0, 3756356.7,     294.1,     294.1,       0.0);
```


* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
L0046611	543961.5	3755183.6	-0.49
L0046612	543961.5	3755183.6	-1.50

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

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1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54,   3.09,   5.14,   8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

  Surface file: ..\DesertHotSpringsAirportADJU\KTRM_V9_ADJU\KTRM_v9.SFC   Met Version: 16216
  Profile file: ..\..\..\..\..\Dropbox\Kunzman\Projects\6627 DHS 109\HRA\KTRM_V9_ADJU\KTRM_v9.PF
  Surface format: FREE
  Profile format: FREE
  Surface station no.:   3104   Upper air station no.:   3190
                Name: UNKNOWN   Name: UNKNOWN
                Year: 2012   Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-7.8	0.118	-9.000	-9.000	-999.	98.	19.4	0.08	1.91	1.00	1.59	77.	10.1	278.8	2.0
12	01	01	1	02	-15.8	0.171	-9.000	-9.000	-999.	169.	32.1	0.08	1.91	1.00	2.23	288.	10.1	277.5	2.0
12	01	01	1	03	-16.9	0.177	-9.000	-9.000	-999.	178.	34.3	0.08	1.91	1.00	2.30	325.	10.1	278.8	2.0
12	01	01	1	04	-3.0	0.076	-9.000	-9.000	-999.	56.	13.4	0.08	1.91	1.00	0.94	321.	10.1	275.4	2.0
12	01	01	1	05	-4.7	0.092	-9.000	-9.000	-999.	67.	15.0	0.08	1.91	1.00	1.23	342.	10.1	274.2	2.0
12	01	01	1	06	-10.7	0.139	-9.000	-9.000	-999.	124.	22.8	0.08	1.91	1.00	1.84	309.	10.1	274.9	2.0
12	01	01	1	07	-18.8	0.186	-9.000	-9.000	-999.	193.	38.2	0.08	1.91	1.00	2.42	338.	10.1	277.0	2.0
12	01	01	1	08	-11.5	0.179	-9.000	-9.000	-999.	182.	45.7	0.08	1.91	0.49	2.30	343.	10.1	282.5	2.0
12	01	01	1	09	44.9	0.190	0.372	0.007	42.	198.	-13.9	0.08	1.91	0.30	1.86	334.	10.1	288.8	2.0
12	01	01	1	10	109.3	0.237	0.720	0.006	125.	278.	-11.2	0.08	1.91	0.23	2.27	333.	10.1	293.8	2.0
12	01	01	1	11	153.1	0.246	1.122	0.005	338.	293.	-8.9	0.08	1.91	0.21	2.28	348.	10.1	297.0	2.0
12	01	01	1	12	173.2	0.204	1.424	0.005	612.	222.	-4.5	0.08	1.91	0.20	1.72	322.	10.1	298.8	2.0
12	01	01	1	13	169.9	0.156	1.670	0.005	1005.	148.	-2.0	0.08	1.91	0.20	1.14	351.	10.1	300.4	2.0
12	01	01	1	14	142.4	0.144	1.714	0.005	1296.	131.	-1.9	0.08	1.91	0.22	1.04	329.	10.1	300.9	2.0
12	01	01	1	15	92.8	0.142	1.542	0.005	1447.	129.	-2.8	0.08	1.91	0.25	1.11	316.	10.1	301.4	2.0
12	01	01	1	16	24.5	0.122	0.995	0.005	1469.	102.	-6.8	0.08	1.91	0.35	1.09	301.	10.1	300.4	2.0
12	01	01	1	17	-3.0	0.077	-9.000	-9.000	-999.	51.	13.7	0.08	1.91	0.65	0.99	209.	10.1	292.0	2.0
12	01	01	1	18	-11.9	0.149	-9.000	-9.000	-999.	138.	25.2	0.08	1.91	1.00	1.96	149.	10.1	286.4	2.0
12	01	01	1	19	-6.4	0.107	-9.000	-9.000	-999.	85.	17.7	0.08	1.91	1.00	1.45	31.	10.1	284.9	2.0
12	01	01	1	20	-15.7	0.171	-9.000	-9.000	-999.	169.	32.1	0.08	1.91	1.00	2.23	327.	10.1	283.1	2.0
12	01	01	1	21	-8.3	0.122	-9.000	-9.000	-999.	103.	20.2	0.08	1.91	1.00	1.64	347.	10.1	282.0	2.0
12	01	01	1	22	-7.9	0.119	-9.000	-9.000	-999.	99.	19.6	0.08	1.91	1.00	1.60	316.	10.1	279.2	2.0
12	01	01	1	23	-5.3	0.097	-9.000	-9.000	-999.	73.	15.9	0.08	1.91	1.00	1.31	325.	10.1	278.1	2.0
12	01	01	1	24	-9.4	0.130	-9.000	-9.000	-999.	113.	21.5	0.08	1.91	1.00	1.74	304.	10.1	278.8	2.0

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	10.1	1	77.	1.59	278.8	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                          *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL   ***
                              INCLUDING SOURCE(S):   L0046098   , L0046099   , L0046100   , L0046101   , L0046102   ,
               L0046103   , L0046104   , L0046105   , L0046106   , L0046107   , L0046108   , L0046109   , L0046110   ,
               L0046111   , L0046112   , L0046113   , L0046114   , L0046115   , L0046116   , L0046117   , L0046118   ,
               L0046119   , L0046120   , L0046121   , L0046122   , L0046123   , L0046124   , L0046125   , . . .   ,

                               *** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART ***

                                    ** CONC OF DPM   IN MICROGRAMS/M**3   **

Y-COORD (METERS)	X-COORD (METERS)								
	541890.52	542097.62	542304.72	542511.82	542718.92	542926.02	543133.12	543340.22	543547.32
3757193.95	0.00006	0.00007	0.00008	0.00010	0.00011	0.00012	0.00012	0.00013	0.00017
3756992.92	0.00006	0.00008	0.00009	0.00011	0.00012	0.00014	0.00015	0.00016	0.00021
3756791.89	0.00007	0.00008	0.00010	0.00012	0.00014	0.00016	0.00018	0.00021	0.00026
3756590.86	0.00007	0.00008	0.00010	0.00012	0.00015	0.00019	0.00023	0.00026	0.00033
3756389.83	0.00007	0.00008	0.00010	0.00013	0.00016	0.00021	0.00027	0.00033	0.00043
3756188.80	0.00007	0.00009	0.00011	0.00014	0.00017	0.00022	0.00030	0.00042	0.00057
3755987.77	0.00007	0.00009	0.00011	0.00014	0.00018	0.00024	0.00033	0.00049	0.00076
3755786.74	0.00007	0.00009	0.00011	0.00014	0.00018	0.00024	0.00035	0.00054	0.00100
3755585.71	0.00008	0.00009	0.00011	0.00014	0.00018	0.00025	0.00036	0.00056	0.00115
3755384.68	0.00008	0.00010	0.00012	0.00014	0.00019	0.00025	0.00036	0.00057	0.00114
3755183.65	0.00008	0.00010	0.00012	0.00015	0.00020	0.00027	0.00037	0.00057	0.00110
3754982.62	0.00009	0.00011	0.00013	0.00016	0.00021	0.00028	0.00037	0.00056	0.00104
3754781.59	0.00010	0.00012	0.00014	0.00018	0.00022	0.00028	0.00037	0.00054	0.00096
3754580.56	0.00011	0.00013	0.00016	0.00019	0.00023	0.00028	0.00036	0.00051	0.00089
3754379.53	0.00013	0.00015	0.00017	0.00020	0.00024	0.00028	0.00035	0.00048	0.00083
3754178.50	0.00015	0.00019	0.00022	0.00025	0.00028	0.00032	0.00037	0.00048	0.00079
3753977.47	0.00020	0.00056	0.00060	0.00063	0.00065	0.00069	0.00074	0.00083	0.00104
3753776.44	0.00023	0.00061	0.00040	0.00041	0.00043	0.00046	0.00050	0.00056	0.00066
3753575.41	0.00022	0.00057	0.00027	0.00026	0.00027	0.00029	0.00033	0.00038	0.00045
3753374.38	0.00021	0.00054	0.00023	0.00021	0.00022	0.00024	0.00026	0.00030	0.00036
3753173.35	0.00016	0.00048	0.00021	0.00018	0.00019	0.00020	0.00022	0.00026	0.00030

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                          *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL   ***
                              INCLUDING SOURCE(S):   L0046098   , L0046099   , L0046100   , L0046101   , L0046102   ,
               L0046103   , L0046104   , L0046105   , L0046106   , L0046107   , L0046108   , L0046109   , L0046110   ,
               L0046111   , L0046112   , L0046113   , L0046114   , L0046115   , L0046116   , L0046117   , L0046118   ,
               L0046119   , L0046120   , L0046121   , L0046122   , L0046123   , L0046124   , L0046125   , . . .   ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	543754.42	543961.52	544168.62	544375.72	544582.82	544789.92	544997.02	545204.12	545411.22
3757193.95	0.00021	0.00013	0.00011	0.00010	0.00010	0.00009	0.00009	0.00008	0.00007
3756992.92	0.00032	0.00017	0.00014	0.00013	0.00012	0.00012	0.00011	0.00010	0.00009
3756791.89	0.00039	0.00022	0.00019	0.00017	0.00015	0.00014	0.00013	0.00012	0.00011
3756590.86	0.00048	0.00030	0.00026	0.00024	0.00021	0.00020	0.00018	0.00017	0.00015
3756389.83	0.00088	0.00071	0.00068	0.00066	0.00066	0.00067	0.00067	0.00061	0.00056
3756188.80	0.00092	0.00060	0.00053	0.00045	0.00039	0.00035	0.00031	0.00028	0.00026
3755987.77	0.00121	0.00090	0.00076	0.00062	0.00049	0.00040	0.00033	0.00029	0.00025
3755786.74	0.00187	0.00173	0.00151	0.00105	0.00073	0.00053	0.00042	0.00034	0.00028
3755585.71	0.00438	0.00527	0.00502	0.00273	0.00121	0.00076	0.00054	0.00041	0.00032
3755384.68	0.00297	0.01081	0.00883	0.01155	0.00212	0.00111	0.00069	0.00048	0.00037
3755183.65	0.00259	0.01687	0.01204	0.01532	0.00372	0.00159	0.00088	0.00057	0.00041
3754982.62	0.00224	0.00362	0.01339	0.01680	0.00478	0.00206	0.00107	0.00067	0.00047
3754781.59	0.00196	0.00247	0.00803	0.01713	0.00478	0.00232	0.00125	0.00078	0.00054
3754580.56	0.00172	0.00176	0.00343	0.00527	0.00404	0.00229	0.00137	0.00088	0.00061
3754379.53	0.00155	0.00135	0.00204	0.00279	0.00277	0.00202	0.00138	0.00095	0.00068
3754178.50	0.00145	0.00112	0.00142	0.00180	0.00191	0.00168	0.00132	0.00099	0.00075
3753977.47	0.00157	0.00125	0.00140	0.00162	0.00174	0.00169	0.00152	0.00130	0.00111
3753776.44	0.00088	0.00090	0.00101	0.00113	0.00122	0.00123	0.00114	0.00100	0.00086
3753575.41	0.00056	0.00066	0.00075	0.00083	0.00090	0.00092	0.00089	0.00081	0.00071
3753374.38	0.00044	0.00052	0.00060	0.00066	0.00072	0.00075	0.00074	0.00069	0.00062
3753173.35	0.00036	0.00042	0.00049	0.00054	0.00059	0.00062	0.00062	0.00059	0.00055

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0046098 , L0046099 , L0046100 , L0046101 , L0046102 ,
L0046103 , L0046104 , L0046105 , L0046106 , L0046107 , L0046108 , L0046109 , L0046110 ,
L0046111 , L0046112 , L0046113 , L0046114 , L0046115 , L0046116 , L0046117 , L0046118 ,
L0046119 , L0046120 , L0046121 , L0046122 , L0046123 , L0046124 , L0046125 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	545618.32	545825.42	546032.52
3757193.95	0.00007	0.00006	0.00006

```
 3756992.92 |       0.00008      0.00008      0.00007
 3756791.89 |       0.00010      0.00010      0.00009
 3756590.86 |       0.00014      0.00013      0.00012
 3756389.83 |       0.00051      0.00053      0.00054
 3756188.80 |       0.00024      0.00022      0.00020
 3755987.77 |       0.00023      0.00020      0.00018
 3755786.74 |       0.00024      0.00021      0.00018
 3755585.71 |       0.00027      0.00022      0.00019
 3755384.68 |       0.00029      0.00024      0.00020
 3755183.65 |       0.00032      0.00026      0.00022
 3754982.62 |       0.00036      0.00028      0.00023
 3754781.59 |       0.00040      0.00031      0.00025
 3754580.56 |       0.00045      0.00035      0.00028
 3754379.53 |       0.00050      0.00039      0.00030
 3754178.50 |       0.00058      0.00045      0.00034
 3753977.47 |       0.00096      0.00084      0.00062
 3753776.44 |       0.00072      0.00061      0.00050
 3753575.41 |       0.00060      0.00051      0.00042
 3753374.38 |       0.00054      0.00047      0.00040
 3753173.35 |       0.00050      0.00044      0.00038

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 1st 14 yr                    ***        05/24/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 1st 14 yr                           ***        20:34:00
                                                                                                                PAGE 173
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                          *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                              INCLUDING SOURCE(S):     L0046098    , L0046099    , L0046100    , L0046101    , L0046102    ,
               L0046103    , L0046104    , L0046105    , L0046106    , L0046107    , L0046108    , L0046109    , L0046110    ,
               L0046111    , L0046112    , L0046113    , L0046114    , L0046115    , L0046116    , L0046117    , L0046118    ,
               L0046119    , L0046120    , L0046121    , L0046122    , L0046123    , L0046124    , L0046125    ,  . . .      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                    ** CONC OF DPM      IN MICROGRAMS/M**3                        **

      X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)   Y-COORD (M)        CONC
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       544500.58    3754666.10       0.00583                     544584.26    3754650.71       0.00436
       544743.72    3754712.43       0.00271                     544823.38    3754797.27       0.00207
       543275.51    3754552.99       0.00045                     542202.53    3753909.06       0.00171
       542020.54    3753897.71       0.00112                     542046.12    3753764.40       0.00235
       544597.39    3754047.31       0.00165                     545870.84    3753922.64       0.00184
       543677.72    3756399.86       0.00132                     544963.53    3756388.62       0.00071
       545339.03    3756356.66       0.00093

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 1st 14 yr                    ***        05/24/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 1st 14 yr                           ***        20:34:00
                                                                                                                PAGE 174
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.01713 AT (544375.72, 3754781.59, 274.40, 274.40, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.01687 AT (543961.52, 3755183.65, 283.50, 283.50, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.01680 AT (544375.72, 3754982.62, 278.20, 278.20, 0.00)	GC	UCART1
	4TH HIGHEST VALUE IS	0.01532 AT (544375.72, 3755183.65, 282.00, 282.00, 0.00)	GC	UCART1
	5TH HIGHEST VALUE IS	0.01339 AT (544168.62, 3754982.62, 279.10, 279.10, 0.00)	GC	UCART1
	6TH HIGHEST VALUE IS	0.01204 AT (544168.62, 3755183.65, 282.70, 282.70, 0.00)	GC	UCART1
	7TH HIGHEST VALUE IS	0.01155 AT (544375.72, 3755384.68, 285.20, 285.20, 0.00)	GC	UCART1
	8TH HIGHEST VALUE IS	0.01081 AT (543961.52, 3755384.68, 287.00, 287.00, 0.00)	GC	UCART1
	9TH HIGHEST VALUE IS	0.00883 AT (544168.62, 3755384.68, 286.30, 286.30, 0.00)	GC	UCART1
	10TH HIGHEST VALUE IS	0.00803 AT (544168.62, 3754781.59, 275.60, 275.60, 0.00)	GC	UCART1

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 36 Warning Message(s)
A Total of 1124 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 595 Calm Hours Identified

A Total of 529 Missing Hours Identified (1.21 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********

```
SO W320    4337        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    4338        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    4339        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    4340        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5953        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5954        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5955        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5956        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5957        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5958        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5959        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5960        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5961        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5962        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5963        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5964        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5965        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5966        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5967        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5968        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5969        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5970        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5971        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5972        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5973        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5974        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5975        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5976        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5977        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5978        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5979        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5980        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5981        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
ME W340    9231       PRBASE: Possible Error in PROFBASE Input:  Value is < 0        PROFBASE
ME W186    9232       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used           0.50
ME W187    9232       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ************************************
   *** AERMOD Finishes Successfully ***
   ************************************
```

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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.6.5
** Lakes Environmental Software Inc.
** Date: 5/26/2019
** File: C:\Users\Catherine Howe\Desktop\DHS\Higher Cultivation\HRA\6627b DHS 109 - 2nd 14 years\6627b DHS 109 - 2nd 14 years.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Lakes\AERMOD View\6627 DHS 109 - 2nd 14 years
   TITLETWO DHS 109 DPM Concentrations - 2nd 14 years
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 2189641 Riverside_County
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "6627b DHS 109 - 2nd 14 years.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC 15th Ave Eastern Project Driveway to Little Morongo
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000235
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 8
** 544362.703, 3755555.251, 288.03, 0.00, 1.70
** 543931.522, 3755552.148, 290.67, 0.00, 1.70
** 543892.903, 3755554.099, 290.96, 0.00, 1.70
```

```
** 543862.439, 3755566.497, 291.23, 0.00, 1.70
** 543816.035, 3755601.212, 292.60, 0.00, 1.70
** 543777.753, 3755620.310, 293.07, 0.00, 1.70
** 543741.619, 3755630.849, 293.68, 0.00, 1.70
** 543688.020, 3755631.150, 294.01, 0.00, 1.70
** ------------------------------------------------------------------
   LOCATION L0046098     VOLUME   544360.874 3755555.238 288.07
   LOCATION L0046099     VOLUME   544357.217 3755555.212 288.10
   LOCATION L0046100     VOLUME   544353.559 3755555.185 288.14
   LOCATION L0046101     VOLUME   544349.902 3755555.159 288.17
   LOCATION L0046102     VOLUME   544346.244 3755555.133 288.21
   LOCATION L0046103     VOLUME   544342.587 3755555.107 288.23
   LOCATION L0046104     VOLUME   544338.929 3755555.080 288.25
   LOCATION L0046105     VOLUME   544335.272 3755555.054 288.27
   LOCATION L0046106     VOLUME   544331.614 3755555.028 288.29
   LOCATION L0046107     VOLUME   544327.957 3755555.001 288.31
   LOCATION L0046108     VOLUME   544324.299 3755554.975 288.33
   LOCATION L0046109     VOLUME   544320.642 3755554.949 288.35
   LOCATION L0046110     VOLUME   544316.984 3755554.922 288.38
   LOCATION L0046111     VOLUME   544313.327 3755554.896 288.41
   LOCATION L0046112     VOLUME   544309.669 3755554.870 288.44
   LOCATION L0046113     VOLUME   544306.012 3755554.843 288.47
   LOCATION L0046114     VOLUME   544302.354 3755554.817 288.50
   LOCATION L0046115     VOLUME   544298.697 3755554.791 288.52
   LOCATION L0046116     VOLUME   544295.039 3755554.764 288.55
   LOCATION L0046117     VOLUME   544291.382 3755554.738 288.57
   LOCATION L0046118     VOLUME   544287.724 3755554.712 288.60
   LOCATION L0046119     VOLUME   544284.067 3755554.685 288.62
   LOCATION L0046120     VOLUME   544280.409 3755554.659 288.64
   LOCATION L0046121     VOLUME   544276.752 3755554.633 288.66
   LOCATION L0046122     VOLUME   544273.094 3755554.606 288.68
   LOCATION L0046123     VOLUME   544269.437 3755554.580 288.70
   LOCATION L0046124     VOLUME   544265.779 3755554.554 288.73
   LOCATION L0046125     VOLUME   544262.122 3755554.527 288.75
   LOCATION L0046126     VOLUME   544258.464 3755554.501 288.77
   LOCATION L0046127     VOLUME   544254.807 3755554.475 288.79
   LOCATION L0046128     VOLUME   544251.149 3755554.449 288.81
   LOCATION L0046129     VOLUME   544247.492 3755554.422 288.84
   LOCATION L0046130     VOLUME   544243.834 3755554.396 288.86
   LOCATION L0046131     VOLUME   544240.177 3755554.370 288.88
   LOCATION L0046132     VOLUME   544236.519 3755554.343 288.90
   LOCATION L0046133     VOLUME   544232.862 3755554.317 288.92
   LOCATION L0046134     VOLUME   544229.204 3755554.291 288.95
   LOCATION L0046135     VOLUME   544225.547 3755554.264 288.97
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   LOCATION L0046286     VOLUME   543693.286 3755631.121 293.94
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   LOCATION STCK2        POINT      543964.443  3755485.784      288.950
   LOCATION STCK3        POINT      544154.057  3754819.560      276.320
   LOCATION STCK4        POINT      544242.294  3754819.553      275.850
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
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** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000237
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
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** 544366.590, 3754744.006, 273.55, 0.00, 1.70
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** DESCRSRC On-site along Street B/Street F
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
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** End of LINE VOLUME Source ID = SLINE4
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** LINE VOLUME Source ID = SLINE5
** DESCRSRC Little Morongo from 15th Ave to Dillon Rd
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000395
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
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   LOCATION L0047221     VOLUME   543671.430 3753941.301 262.65
   LOCATION L0047222     VOLUME   543671.394 3753937.644 262.58
** End of LINE VOLUME Source ID = SLINE5
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC Dillon Rd from Little Morongo to Indian Canyon Dr
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000216
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
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LOCATION L0047638     VOLUME   542151.239 3753928.814 268.77
LOCATION L0047639     VOLUME   542147.582 3753928.806 268.79
LOCATION L0047640     VOLUME   542143.924 3753928.797 268.80
LOCATION L0047641     VOLUME   542140.267 3753928.789 268.81
LOCATION L0047642     VOLUME   542136.609 3753928.780 268.81
LOCATION L0047643     VOLUME   542132.952 3753928.772 268.82
LOCATION L0047644     VOLUME   542129.294 3753928.764 268.83
LOCATION L0047645     VOLUME   542125.636 3753928.755 268.83
LOCATION L0047646     VOLUME   542121.979 3753928.747 268.84
LOCATION L0047647     VOLUME   542118.321 3753928.738 268.85
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   LOCATION L0047648     VOLUME   542114.664 3753928.730 268.87
   LOCATION L0047649     VOLUME   542111.006 3753928.721 268.88
   LOCATION L0047650     VOLUME   542107.348 3753928.713 268.90
   LOCATION L0047651     VOLUME   542103.691 3753928.704 268.91
   LOCATION L0047652     VOLUME   542100.033 3753928.696 268.93
   LOCATION L0047653     VOLUME   542096.376 3753928.687 268.95
   LOCATION L0047654     VOLUME   542092.718 3753928.679 268.96
   LOCATION L0047655     VOLUME   542089.060 3753928.671 268.99
   LOCATION L0047656     VOLUME   542085.403 3753928.662 269.01
   LOCATION L0047657     VOLUME   542081.745 3753928.654 269.03
   LOCATION L0047658     VOLUME   542078.088 3753928.645 269.05
   LOCATION L0047659     VOLUME   542074.430 3753928.637 269.07
   LOCATION L0047660     VOLUME   542070.772 3753928.628 269.10
   LOCATION L0047661     VOLUME   542067.115 3753928.620 269.12
   LOCATION L0047662     VOLUME   542063.457 3753928.611 269.16
   LOCATION L0047663     VOLUME   542059.800 3753928.603 269.19
   LOCATION L0047664     VOLUME   542056.142 3753928.595 269.22
   LOCATION L0047665     VOLUME   542052.485 3753928.586 269.26
   LOCATION L0047666     VOLUME   542048.827 3753928.578 269.29
   LOCATION L0047667     VOLUME   542045.169 3753928.569 269.33
   LOCATION L0047668     VOLUME   542041.512 3753928.561 269.36
   LOCATION L0047669     VOLUME   542037.854 3753928.552 269.38
** End of LINE VOLUME Source ID = SLINE6
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE7
** DESCRSRC Indian Canyon south of Dillon Rd
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 8.44E-06
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
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** 542030.404, 3753120.751, 249.93, 0.00, 1.70
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   LOCATION L0047672     VOLUME   542037.387 3753916.016 269.11
   LOCATION L0047673     VOLUME   542037.354 3753912.358 269.01
   LOCATION L0047674     VOLUME   542037.322 3753908.701 268.92
   LOCATION L0047675     VOLUME   542037.290 3753905.043 268.83
   LOCATION L0047676     VOLUME   542037.258 3753901.386 268.74
   LOCATION L0047677     VOLUME   542037.226 3753897.728 268.64
   LOCATION L0047678     VOLUME   542037.194 3753894.071 268.55
   LOCATION L0047679     VOLUME   542037.162 3753890.413 268.46
   LOCATION L0047680     VOLUME   542037.130 3753886.756 268.37
   LOCATION L0047681     VOLUME   542037.098 3753883.098 268.27
   LOCATION L0047682     VOLUME   542037.065 3753879.441 268.18
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LOCATION L0047684     VOLUME   542037.001 3753872.126 267.99
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LOCATION L0047686     VOLUME   542036.937 3753864.811 267.80
LOCATION L0047687     VOLUME   542036.905 3753861.154 267.71
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LOCATION L0047689     VOLUME   542036.841 3753853.839 267.52
LOCATION L0047690     VOLUME   542036.809 3753850.181 267.42
LOCATION L0047691     VOLUME   542036.776 3753846.524 267.32
LOCATION L0047692     VOLUME   542036.744 3753842.866 267.23
LOCATION L0047693     VOLUME   542036.712 3753839.209 267.13
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LOCATION L0047695     VOLUME   542036.648 3753831.894 266.93
LOCATION L0047696     VOLUME   542036.616 3753828.237 266.83
LOCATION L0047697     VOLUME   542036.584 3753824.579 266.73
LOCATION L0047698     VOLUME   542036.552 3753820.922 266.63
LOCATION L0047699     VOLUME   542036.520 3753817.264 266.52
LOCATION L0047700     VOLUME   542036.487 3753813.607 266.42
LOCATION L0047701     VOLUME   542036.455 3753809.949 266.31
LOCATION L0047702     VOLUME   542036.423 3753806.292 266.21
LOCATION L0047703     VOLUME   542036.391 3753802.634 266.11
LOCATION L0047704     VOLUME   542036.359 3753798.977 266.00
LOCATION L0047705     VOLUME   542036.327 3753795.319 265.90
LOCATION L0047706     VOLUME   542036.295 3753791.662 265.80
LOCATION L0047707     VOLUME   542036.263 3753788.005 265.72
LOCATION L0047708     VOLUME   542036.231 3753784.347 265.63
LOCATION L0047709     VOLUME   542036.198 3753780.690 265.54
LOCATION L0047710     VOLUME   542036.166 3753777.032 265.45
LOCATION L0047711     VOLUME   542036.134 3753773.375 265.36
LOCATION L0047712     VOLUME   542036.102 3753769.717 265.27
LOCATION L0047713     VOLUME   542036.070 3753766.060 265.18
LOCATION L0047714     VOLUME   542036.038 3753762.402 265.09
LOCATION L0047715     VOLUME   542036.006 3753758.745 265.00
LOCATION L0047716     VOLUME   542035.974 3753755.087 264.91
LOCATION L0047717     VOLUME   542035.942 3753751.430 264.82
LOCATION L0047718     VOLUME   542035.909 3753747.772 264.73
LOCATION L0047719     VOLUME   542035.877 3753744.115 264.64
LOCATION L0047720     VOLUME   542035.845 3753740.458 264.55
LOCATION L0047721     VOLUME   542035.813 3753736.800 264.46
LOCATION L0047722     VOLUME   542035.781 3753733.143 264.37
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LOCATION L0047725     VOLUME   542035.685 3753722.170 264.10
LOCATION L0047726     VOLUME   542035.653 3753718.513 264.01
LOCATION L0047727     VOLUME   542035.620 3753714.855 263.92
LOCATION L0047728     VOLUME   542035.588 3753711.198 263.82
LOCATION L0047729     VOLUME   542035.556 3753707.540 263.73
LOCATION L0047730     VOLUME   542035.524 3753703.883 263.64
LOCATION L0047731     VOLUME   542035.492 3753700.226 263.55
LOCATION L0047732     VOLUME   542035.460 3753696.568 263.47
LOCATION L0047733     VOLUME   542035.428 3753692.911 263.38
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LOCATION L0047735     VOLUME   542035.364 3753685.596 263.21
LOCATION L0047736     VOLUME   542035.331 3753681.938 263.12
LOCATION L0047737     VOLUME   542035.299 3753678.281 263.03
LOCATION L0047738     VOLUME   542035.267 3753674.623 262.95
LOCATION L0047739     VOLUME   542035.235 3753670.966 262.86
LOCATION L0047740     VOLUME   542035.203 3753667.308 262.78
LOCATION L0047741     VOLUME   542035.171 3753663.651 262.70
LOCATION L0047742     VOLUME   542035.139 3753659.993 262.62
LOCATION L0047743     VOLUME   542035.107 3753656.336 262.54
LOCATION L0047744     VOLUME   542035.075 3753652.679 262.46
LOCATION L0047745     VOLUME   542035.042 3753649.021 262.38
LOCATION L0047746     VOLUME   542035.010 3753645.364 262.30
LOCATION L0047747     VOLUME   542034.978 3753641.706 262.22
LOCATION L0047748     VOLUME   542034.946 3753638.049 262.15
LOCATION L0047749     VOLUME   542034.914 3753634.391 262.07
LOCATION L0047750     VOLUME   542034.882 3753630.734 262.00
LOCATION L0047751     VOLUME   542034.850 3753627.076 261.92
LOCATION L0047752     VOLUME   542034.818 3753623.419 261.85
LOCATION L0047753     VOLUME   542034.786 3753619.761 261.77
LOCATION L0047754     VOLUME   542034.753 3753616.104 261.70
LOCATION L0047755     VOLUME   542034.721 3753612.447 261.63
LOCATION L0047756     VOLUME   542034.689 3753608.789 261.55
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LOCATION L0047758     VOLUME   542034.625 3753601.474 261.39
LOCATION L0047759     VOLUME   542034.593 3753597.817 261.31
LOCATION L0047760     VOLUME   542034.561 3753594.159 261.23
LOCATION L0047761     VOLUME   542034.529 3753590.502 261.15
LOCATION L0047762     VOLUME   542034.497 3753586.844 261.06
LOCATION L0047763     VOLUME   542034.464 3753583.187 260.98
LOCATION L0047764     VOLUME   542034.432 3753579.529 260.90
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LOCATION L0047767     VOLUME   542034.336 3753568.557 260.67
LOCATION L0047768     VOLUME   542034.304 3753564.900 260.60
LOCATION L0047769     VOLUME   542034.272 3753561.242 260.52
LOCATION L0047770     VOLUME   542034.240 3753557.585 260.44
LOCATION L0047771     VOLUME   542034.208 3753553.927 260.37
LOCATION L0047772     VOLUME   542034.175 3753550.270 260.29
LOCATION L0047773     VOLUME   542034.143 3753546.612 260.21
LOCATION L0047774     VOLUME   542034.111 3753542.955 260.13
LOCATION L0047775     VOLUME   542034.079 3753539.297 260.05
LOCATION L0047776     VOLUME   542034.047 3753535.640 259.97
LOCATION L0047777     VOLUME   542034.015 3753531.982 259.89
LOCATION L0047778     VOLUME   542033.983 3753528.325 259.81
LOCATION L0047779     VOLUME   542033.951 3753524.667 259.73
LOCATION L0047780     VOLUME   542033.919 3753521.010 259.64
LOCATION L0047781     VOLUME   542033.886 3753517.353 259.56
LOCATION L0047782     VOLUME   542033.854 3753513.695 259.48
LOCATION L0047783     VOLUME   542033.822 3753510.038 259.40
LOCATION L0047784     VOLUME   542033.790 3753506.380 259.32
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LOCATION L0047788     VOLUME   542033.662 3753491.750 259.00
LOCATION L0047789     VOLUME   542033.630 3753488.093 258.92
LOCATION L0047790     VOLUME   542033.597 3753484.435 258.84
LOCATION L0047791     VOLUME   542033.565 3753480.778 258.75
LOCATION L0047792     VOLUME   542033.533 3753477.121 258.66
LOCATION L0047793     VOLUME   542033.501 3753473.463 258.58
LOCATION L0047794     VOLUME   542033.469 3753469.806 258.49
LOCATION L0047795     VOLUME   542033.437 3753466.148 258.41
LOCATION L0047796     VOLUME   542033.405 3753462.491 258.32
LOCATION L0047797     VOLUME   542033.373 3753458.833 258.24
LOCATION L0047798     VOLUME   542033.341 3753455.176 258.15
LOCATION L0047799     VOLUME   542033.308 3753451.518 258.06
LOCATION L0047800     VOLUME   542033.276 3753447.861 257.97
LOCATION L0047801     VOLUME   542033.244 3753444.203 257.89
LOCATION L0047802     VOLUME   542033.212 3753440.546 257.80
LOCATION L0047803     VOLUME   542033.180 3753436.888 257.71
LOCATION L0047804     VOLUME   542033.148 3753433.231 257.63
LOCATION L0047805     VOLUME   542033.116 3753429.574 257.54
LOCATION L0047806     VOLUME   542033.084 3753425.916 257.45
LOCATION L0047807     VOLUME   542033.052 3753422.259 257.36
LOCATION L0047808     VOLUME   542033.019 3753418.601 257.27
LOCATION L0047809     VOLUME   542032.987 3753414.944 257.17
LOCATION L0047810     VOLUME   542032.955 3753411.286 257.08
LOCATION L0047811     VOLUME   542032.923 3753407.629 256.99
LOCATION L0047812     VOLUME   542032.891 3753403.971 256.90
LOCATION L0047813     VOLUME   542032.859 3753400.314 256.80
LOCATION L0047814     VOLUME   542032.827 3753396.656 256.71
LOCATION L0047815     VOLUME   542032.795 3753392.999 256.62
LOCATION L0047816     VOLUME   542032.763 3753389.342 256.54
LOCATION L0047817     VOLUME   542032.730 3753385.684 256.46
LOCATION L0047818     VOLUME   542032.698 3753382.027 256.38
LOCATION L0047819     VOLUME   542032.666 3753378.369 256.30
LOCATION L0047820     VOLUME   542032.634 3753374.712 256.21
LOCATION L0047821     VOLUME   542032.602 3753371.054 256.13
LOCATION L0047822     VOLUME   542032.570 3753367.397 256.05
LOCATION L0047823     VOLUME   542032.538 3753363.739 255.97
LOCATION L0047824     VOLUME   542032.506 3753360.082 255.87
LOCATION L0047825     VOLUME   542032.474 3753356.424 255.77
LOCATION L0047826     VOLUME   542032.441 3753352.767 255.67
LOCATION L0047827     VOLUME   542032.409 3753349.109 255.57
LOCATION L0047828     VOLUME   542032.377 3753345.452 255.46
LOCATION L0047829     VOLUME   542032.345 3753341.795 255.36
LOCATION L0047830     VOLUME   542032.313 3753338.137 255.26
LOCATION L0047831     VOLUME   542032.281 3753334.480 255.16
LOCATION L0047832     VOLUME   542032.249 3753330.822 255.06
LOCATION L0047833     VOLUME   542032.217 3753327.165 254.96
LOCATION L0047834     VOLUME   542032.185 3753323.507 254.86
LOCATION L0047835     VOLUME   542032.152 3753319.850 254.76
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LOCATION L0047837     VOLUME   542032.088 3753312.535 254.56
LOCATION L0047838     VOLUME   542032.056 3753308.877 254.46
LOCATION L0047839     VOLUME   542032.024 3753305.220 254.35
LOCATION L0047840     VOLUME   542031.992 3753301.562 254.25
LOCATION L0047841     VOLUME   542031.960 3753297.905 254.17
LOCATION L0047842     VOLUME   542031.928 3753294.248 254.08
LOCATION L0047843     VOLUME   542031.896 3753290.590 253.99
LOCATION L0047844     VOLUME   542031.863 3753286.933 253.90
LOCATION L0047845     VOLUME   542031.831 3753283.275 253.81
LOCATION L0047846     VOLUME   542031.799 3753279.618 253.72
LOCATION L0047847     VOLUME   542031.767 3753275.960 253.63
LOCATION L0047848     VOLUME   542031.735 3753272.303 253.54
LOCATION L0047849     VOLUME   542031.703 3753268.645 253.46
LOCATION L0047850     VOLUME   542031.671 3753264.988 253.38
LOCATION L0047851     VOLUME   542031.639 3753261.330 253.29
LOCATION L0047852     VOLUME   542031.607 3753257.673 253.21
LOCATION L0047853     VOLUME   542031.574 3753254.016 253.13
LOCATION L0047854     VOLUME   542031.542 3753250.358 253.05
LOCATION L0047855     VOLUME   542031.510 3753246.701 252.96
LOCATION L0047856     VOLUME   542031.478 3753243.043 252.88
LOCATION L0047857     VOLUME   542031.446 3753239.386 252.80
LOCATION L0047858     VOLUME   542031.414 3753235.728 252.73
LOCATION L0047859     VOLUME   542031.382 3753232.071 252.65
LOCATION L0047860     VOLUME   542031.350 3753228.413 252.58
LOCATION L0047861     VOLUME   542031.318 3753224.756 252.51
LOCATION L0047862     VOLUME   542031.285 3753221.098 252.43
LOCATION L0047863     VOLUME   542031.253 3753217.441 252.36
LOCATION L0047864     VOLUME   542031.221 3753213.783 252.29
LOCATION L0047865     VOLUME   542031.189 3753210.126 252.21
LOCATION L0047866     VOLUME   542031.157 3753206.469 252.14
LOCATION L0047867     VOLUME   542031.125 3753202.811 252.06
LOCATION L0047868     VOLUME   542031.093 3753199.154 251.99
LOCATION L0047869     VOLUME   542031.061 3753195.496 251.91
LOCATION L0047870     VOLUME   542031.029 3753191.839 251.83
LOCATION L0047871     VOLUME   542030.996 3753188.181 251.76
LOCATION L0047872     VOLUME   542030.964 3753184.524 251.68
LOCATION L0047873     VOLUME   542030.932 3753180.866 251.60
LOCATION L0047874     VOLUME   542030.900 3753177.209 251.52
LOCATION L0047875     VOLUME   542030.868 3753173.551 251.44
LOCATION L0047876     VOLUME   542030.836 3753169.894 251.35
LOCATION L0047877     VOLUME   542030.804 3753166.236 251.27
LOCATION L0047878     VOLUME   542030.772 3753162.579 251.19
LOCATION L0047879     VOLUME   542030.740 3753158.922 251.10
LOCATION L0047880     VOLUME   542030.707 3753155.264 251.02
LOCATION L0047881     VOLUME   542030.675 3753151.607 250.94
LOCATION L0047882     VOLUME   542030.643 3753147.949 250.85
LOCATION L0047883     VOLUME   542030.611 3753144.292 250.75
LOCATION L0047884     VOLUME   542030.579 3753140.634 250.64
LOCATION L0047885     VOLUME   542030.547 3753136.977 250.54
LOCATION L0047886     VOLUME   542030.515 3753133.319 250.43
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   LOCATION L0047887     VOLUME   542030.483 3753129.662 250.33
   LOCATION L0047888     VOLUME   542030.451 3753126.004 250.22
   LOCATION L0047889     VOLUME   542030.418 3753122.347 250.11
** End of LINE VOLUME Source ID = SLINE7
   LOCATION STCK5        POINT      544098.081  3755457.037      287.930
** DESCRSRC Loading 2
   LOCATION STCK6        POINT      544228.210  3755457.220      287.390
   LOCATION STCK7        POINT      544288.730  3755456.950      287.040
   LOCATION STCK8        POINT      543964.090  3755374.250      286.830
   LOCATION STCK9        POINT      544038.290  3755339.920      285.950
   LOCATION STCK10       POINT      544095.710  3755341.430      285.760
   LOCATION STCK11       POINT      544222.780  3755337.360      285.250
   LOCATION STCK12       POINT      544287.620  3755338.410      284.960
   LOCATION STCK13       POINT      544383.950  3755371.980      284.940
   LOCATION STCK14       POINT      544385.650  3755307.270      283.900
   LOCATION STCK15       POINT      544039.120  3755242.560      283.550
   LOCATION STCK16       POINT      544102.120  3755240.860      283.580
   LOCATION STCK18       POINT      544221.320  3755240.860      283.510
   LOCATION STCK19       POINT      544286.030  3755242.560      283.350
   LOCATION STCK20       POINT      544163.430  3755195.730      282.910
   LOCATION STCK21       POINT      544235.800  3755196.580      282.760
   LOCATION STCK22       POINT      544091.910  3755163.380      282.380
   LOCATION STCK23       POINT      544292.840  3755160.820      281.970
   LOCATION STCK24       POINT      544383.320  3755192.490      282.170
   LOCATION STCK25       POINT      544382.470  3755120.120      280.940
   LOCATION STCK26       POINT      544167.160  3755002.480      279.520
   LOCATION STCK27       POINT      544222.260  3755001.480      279.290
   LOCATION STCK28       POINT      544294.390  3755041.550      279.760
   LOCATION STCK29       POINT      544379.530  3755001.480      278.540
   LOCATION STCK30       POINT      544379.730  3754935.820      277.210
   LOCATION STCK31       POINT      544291.130  3754901.370      277.030
   LOCATION STCK32       POINT      544165.610  3754937.670      278.260
   LOCATION STCK33       POINT      544235.140  3754937.050      277.970
   LOCATION STCK34       POINT      544317.590  3754820.760      275.350
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE11
** DESCRSRC On-site Along Street E
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 8.87E-06
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
** 543899.882, 3755432.329, 288.32, 0.00, 1.70
** 544356.428, 3755432.147, 286.24, 0.00, 1.70
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   LOCATION L0047891     VOLUME   543905.369 3755432.327 288.26
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LOCATION L0047893     VOLUME   543912.684 3755432.324 288.20
LOCATION L0047894     VOLUME   543916.341 3755432.323 288.16
LOCATION L0047895     VOLUME   543919.999 3755432.321 288.12
LOCATION L0047896     VOLUME   543923.657 3755432.320 288.09
LOCATION L0047897     VOLUME   543927.314 3755432.318 288.05
LOCATION L0047898     VOLUME   543930.972 3755432.317 288.01
LOCATION L0047899     VOLUME   543934.629 3755432.315 287.98
LOCATION L0047900     VOLUME   543938.287 3755432.314 287.94
LOCATION L0047901     VOLUME   543941.945 3755432.312 287.91
LOCATION L0047902     VOLUME   543945.602 3755432.311 287.87
LOCATION L0047903     VOLUME   543949.260 3755432.309 287.84
LOCATION L0047904     VOLUME   543952.917 3755432.308 287.80
LOCATION L0047905     VOLUME   543956.575 3755432.306 287.77
LOCATION L0047906     VOLUME   543960.233 3755432.305 287.73
LOCATION L0047907     VOLUME   543963.890 3755432.304 287.72
LOCATION L0047908     VOLUME   543967.548 3755432.302 287.72
LOCATION L0047909     VOLUME   543971.205 3755432.301 287.72
LOCATION L0047910     VOLUME   543974.863 3755432.299 287.72
LOCATION L0047911     VOLUME   543978.521 3755432.298 287.72
LOCATION L0047912     VOLUME   543982.178 3755432.296 287.72
LOCATION L0047913     VOLUME   543985.836 3755432.295 287.72
LOCATION L0047914     VOLUME   543989.493 3755432.293 287.71
LOCATION L0047915     VOLUME   543993.151 3755432.292 287.70
LOCATION L0047916     VOLUME   543996.809 3755432.290 287.68
LOCATION L0047917     VOLUME   544000.466 3755432.289 287.67
LOCATION L0047918     VOLUME   544004.124 3755432.288 287.66
LOCATION L0047919     VOLUME   544007.781 3755432.286 287.65
LOCATION L0047920     VOLUME   544011.439 3755432.285 287.64
LOCATION L0047921     VOLUME   544015.097 3755432.283 287.63
LOCATION L0047922     VOLUME   544018.754 3755432.282 287.63
LOCATION L0047923     VOLUME   544022.412 3755432.280 287.63
LOCATION L0047924     VOLUME   544026.069 3755432.279 287.62
LOCATION L0047925     VOLUME   544029.727 3755432.277 287.62
LOCATION L0047926     VOLUME   544033.385 3755432.276 287.62
LOCATION L0047927     VOLUME   544037.042 3755432.274 287.62
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LOCATION L0047932     VOLUME   544055.330 3755432.267 287.62
LOCATION L0047933     VOLUME   544058.988 3755432.266 287.62
LOCATION L0047934     VOLUME   544062.645 3755432.264 287.62
LOCATION L0047935     VOLUME   544066.303 3755432.263 287.61
LOCATION L0047936     VOLUME   544069.961 3755432.261 287.60
LOCATION L0047937     VOLUME   544073.618 3755432.260 287.58
LOCATION L0047938     VOLUME   544077.276 3755432.258 287.57
LOCATION L0047939     VOLUME   544080.933 3755432.257 287.56
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LOCATION L0047941     VOLUME   544088.249 3755432.254 287.53
LOCATION L0047942     VOLUME   544091.906 3755432.253 287.52
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LOCATION L0047943     VOLUME   544095.564 3755432.251 287.50
LOCATION L0047944     VOLUME   544099.221 3755432.250 287.49
LOCATION L0047945     VOLUME   544102.879 3755432.248 287.47
LOCATION L0047946     VOLUME   544106.537 3755432.247 287.46
LOCATION L0047947     VOLUME   544110.194 3755432.245 287.44
LOCATION L0047948     VOLUME   544113.852 3755432.244 287.43
LOCATION L0047949     VOLUME   544117.509 3755432.242 287.42
LOCATION L0047950     VOLUME   544121.167 3755432.241 287.40
LOCATION L0047951     VOLUME   544124.825 3755432.239 287.38
LOCATION L0047952     VOLUME   544128.482 3755432.238 287.37
LOCATION L0047953     VOLUME   544132.140 3755432.237 287.35
LOCATION L0047954     VOLUME   544135.797 3755432.235 287.34
LOCATION L0047955     VOLUME   544139.455 3755432.234 287.32
LOCATION L0047956     VOLUME   544143.113 3755432.232 287.31
LOCATION L0047957     VOLUME   544146.770 3755432.231 287.30
LOCATION L0047958     VOLUME   544150.428 3755432.229 287.28
LOCATION L0047959     VOLUME   544154.085 3755432.228 287.27
LOCATION L0047960     VOLUME   544157.743 3755432.226 287.26
LOCATION L0047961     VOLUME   544161.401 3755432.225 287.24
LOCATION L0047962     VOLUME   544165.058 3755432.223 287.23
LOCATION L0047963     VOLUME   544168.716 3755432.222 287.21
LOCATION L0047964     VOLUME   544172.373 3755432.220 287.19
LOCATION L0047965     VOLUME   544176.031 3755432.219 287.18
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LOCATION L0047967     VOLUME   544183.346 3755432.216 287.14
LOCATION L0047968     VOLUME   544187.004 3755432.215 287.12
LOCATION L0047969     VOLUME   544190.661 3755432.213 287.11
LOCATION L0047970     VOLUME   544194.319 3755432.212 287.09
LOCATION L0047971     VOLUME   544197.977 3755432.210 287.08
LOCATION L0047972     VOLUME   544201.634 3755432.209 287.07
LOCATION L0047973     VOLUME   544205.292 3755432.207 287.06
LOCATION L0047974     VOLUME   544208.949 3755432.206 287.05
LOCATION L0047975     VOLUME   544212.607 3755432.204 287.03
LOCATION L0047976     VOLUME   544216.265 3755432.203 287.02
LOCATION L0047977     VOLUME   544219.922 3755432.202 287.01
LOCATION L0047978     VOLUME   544223.580 3755432.200 286.99
LOCATION L0047979     VOLUME   544227.237 3755432.199 286.97
LOCATION L0047980     VOLUME   544230.895 3755432.197 286.95
LOCATION L0047981     VOLUME   544234.553 3755432.196 286.93
LOCATION L0047982     VOLUME   544238.210 3755432.194 286.91
LOCATION L0047983     VOLUME   544241.868 3755432.193 286.89
LOCATION L0047984     VOLUME   544245.525 3755432.191 286.87
LOCATION L0047985     VOLUME   544249.183 3755432.190 286.85
LOCATION L0047986     VOLUME   544252.841 3755432.188 286.83
LOCATION L0047987     VOLUME   544256.498 3755432.187 286.82
LOCATION L0047988     VOLUME   544260.156 3755432.185 286.80
LOCATION L0047989     VOLUME   544263.813 3755432.184 286.78
LOCATION L0047990     VOLUME   544267.471 3755432.183 286.76
LOCATION L0047991     VOLUME   544271.129 3755432.181 286.74
LOCATION L0047992     VOLUME   544274.786 3755432.180 286.71
LOCATION L0047993     VOLUME   544278.444 3755432.178 286.69
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   LOCATION L0047995     VOLUME   544285.759 3755432.175 286.64
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   LOCATION L0047997     VOLUME   544293.074 3755432.172 286.60
   LOCATION L0047998     VOLUME   544296.732 3755432.171 286.58
   LOCATION L0047999     VOLUME   544300.389 3755432.169 286.56
   LOCATION L0048000     VOLUME   544304.047 3755432.168 286.53
   LOCATION L0048001     VOLUME   544307.705 3755432.167 286.51
   LOCATION L0048002     VOLUME   544311.362 3755432.165 286.49
   LOCATION L0048003     VOLUME   544315.020 3755432.164 286.47
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   LOCATION L0048006     VOLUME   544325.993 3755432.159 286.40
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   LOCATION L0048008     VOLUME   544333.308 3755432.156 286.36
   LOCATION L0048009     VOLUME   544336.965 3755432.155 286.33
   LOCATION L0048010     VOLUME   544340.623 3755432.153 286.31
   LOCATION L0048011     VOLUME   544344.281 3755432.152 286.29
   LOCATION L0048012     VOLUME   544347.938 3755432.151 286.26
   LOCATION L0048013     VOLUME   544351.596 3755432.149 286.24
   LOCATION L0048014     VOLUME   544355.253 3755432.148 286.22
** End of LINE VOLUME Source ID = SLINE11
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE12
** DESCRSRC On-site along Street D
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 7.79E-06
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 4
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** 543998.623, 3755216.757, 283.88, 0.00, 1.70
** 544012.518, 3755219.423, 283.43, 0.00, 1.70
** 544357.579, 3755217.675, 282.67, 0.00, 1.70
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   LOCATION L0048141     VOLUME   543965.267 3755202.628 284.00
   LOCATION L0048142     VOLUME   543968.635 3755204.055 283.99
   LOCATION L0048143     VOLUME   543972.003 3755205.481 283.98
   LOCATION L0048144     VOLUME   543975.371 3755206.908 283.97
   LOCATION L0048145     VOLUME   543978.739 3755208.334 283.96
   LOCATION L0048146     VOLUME   543982.107 3755209.761 283.95
   LOCATION L0048147     VOLUME   543985.475 3755211.187 283.94
   LOCATION L0048148     VOLUME   543988.843 3755212.614 283.92
   LOCATION L0048149     VOLUME   543992.211 3755214.041 283.87
   LOCATION L0048150     VOLUME   543995.579 3755215.467 283.82
   LOCATION L0048151     VOLUME   543998.968 3755216.823 283.76
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LOCATION L0048153     VOLUME   544006.152 3755218.202 283.60
LOCATION L0048154     VOLUME   544009.744 3755218.891 283.51
LOCATION L0048155     VOLUME   544013.351 3755219.419 283.43
LOCATION L0048156     VOLUME   544017.009 3755219.401 283.39
LOCATION L0048157     VOLUME   544020.666 3755219.382 283.35
LOCATION L0048158     VOLUME   544024.324 3755219.364 283.31
LOCATION L0048159     VOLUME   544027.981 3755219.345 283.28
LOCATION L0048160     VOLUME   544031.639 3755219.326 283.24
LOCATION L0048161     VOLUME   544035.297 3755219.308 283.20
LOCATION L0048162     VOLUME   544038.954 3755219.289 283.17
LOCATION L0048163     VOLUME   544042.612 3755219.271 283.16
LOCATION L0048164     VOLUME   544046.269 3755219.252 283.16
LOCATION L0048165     VOLUME   544049.927 3755219.234 283.16
LOCATION L0048166     VOLUME   544053.584 3755219.215 283.16
LOCATION L0048167     VOLUME   544057.242 3755219.197 283.15
LOCATION L0048168     VOLUME   544060.899 3755219.178 283.15
LOCATION L0048169     VOLUME   544064.557 3755219.160 283.15
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LOCATION L0048171     VOLUME   544071.872 3755219.123 283.16
LOCATION L0048172     VOLUME   544075.530 3755219.104 283.17
LOCATION L0048173     VOLUME   544079.187 3755219.086 283.18
LOCATION L0048174     VOLUME   544082.845 3755219.067 283.19
LOCATION L0048175     VOLUME   544086.502 3755219.048 283.20
LOCATION L0048176     VOLUME   544090.160 3755219.030 283.20
LOCATION L0048177     VOLUME   544093.817 3755219.011 283.20
LOCATION L0048178     VOLUME   544097.475 3755218.993 283.20
LOCATION L0048179     VOLUME   544101.133 3755218.974 283.20
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LOCATION L0048181     VOLUME   544108.448 3755218.937 283.20
LOCATION L0048182     VOLUME   544112.105 3755218.919 283.20
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LOCATION L0048184     VOLUME   544119.420 3755218.882 283.20
LOCATION L0048185     VOLUME   544123.078 3755218.863 283.21
LOCATION L0048186     VOLUME   544126.735 3755218.845 283.22
LOCATION L0048187     VOLUME   544130.393 3755218.826 283.23
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LOCATION L0048191     VOLUME   544145.023 3755218.752 283.25
LOCATION L0048192     VOLUME   544148.681 3755218.733 283.25
LOCATION L0048193     VOLUME   544152.338 3755218.715 283.25
LOCATION L0048194     VOLUME   544155.996 3755218.696 283.25
LOCATION L0048195     VOLUME   544159.653 3755218.678 283.25
LOCATION L0048196     VOLUME   544163.311 3755218.659 283.25
LOCATION L0048197     VOLUME   544166.968 3755218.641 283.25
LOCATION L0048198     VOLUME   544170.626 3755218.622 283.25
LOCATION L0048199     VOLUME   544174.284 3755218.604 283.24
LOCATION L0048200     VOLUME   544177.941 3755218.585 283.23
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LOCATION L0048202     VOLUME   544185.256 3755218.548 283.21
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   LOCATION L0048206     VOLUME   544199.886 3755218.474 283.18
   LOCATION L0048207     VOLUME   544203.544 3755218.455 283.17
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   LOCATION L0048209     VOLUME   544210.859 3755218.418 283.16
   LOCATION L0048210     VOLUME   544214.517 3755218.400 283.16
   LOCATION L0048211     VOLUME   544218.174 3755218.381 283.15
   LOCATION L0048212     VOLUME   544221.832 3755218.363 283.14
   LOCATION L0048213     VOLUME   544225.489 3755218.344 283.13
   LOCATION L0048214     VOLUME   544229.147 3755218.326 283.11
   LOCATION L0048215     VOLUME   544232.804 3755218.307 283.10
   LOCATION L0048216     VOLUME   544236.462 3755218.288 283.09
   LOCATION L0048217     VOLUME   544240.120 3755218.270 283.08
   LOCATION L0048218     VOLUME   544243.777 3755218.251 283.06
   LOCATION L0048219     VOLUME   544247.435 3755218.233 283.05
   LOCATION L0048220     VOLUME   544251.092 3755218.214 283.04
   LOCATION L0048221     VOLUME   544254.750 3755218.196 283.03
   LOCATION L0048222     VOLUME   544258.407 3755218.177 283.02
   LOCATION L0048223     VOLUME   544262.065 3755218.159 283.01
   LOCATION L0048224     VOLUME   544265.722 3755218.140 283.00
   LOCATION L0048225     VOLUME   544269.380 3755218.122 282.98
   LOCATION L0048226     VOLUME   544273.037 3755218.103 282.97
   LOCATION L0048227     VOLUME   544276.695 3755218.085 282.96
   LOCATION L0048228     VOLUME   544280.353 3755218.066 282.95
   LOCATION L0048229     VOLUME   544284.010 3755218.048 282.94
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   LOCATION L0048236     VOLUME   544309.613 3755217.918 282.84
   LOCATION L0048237     VOLUME   544313.271 3755217.899 282.82
   LOCATION L0048238     VOLUME   544316.928 3755217.881 282.80
   LOCATION L0048239     VOLUME   544320.586 3755217.862 282.78
   LOCATION L0048240     VOLUME   544324.243 3755217.844 282.76
   LOCATION L0048241     VOLUME   544327.901 3755217.825 282.75
   LOCATION L0048242     VOLUME   544331.558 3755217.807 282.74
   LOCATION L0048243     VOLUME   544335.216 3755217.788 282.73
   LOCATION L0048244     VOLUME   544338.873 3755217.769 282.72
   LOCATION L0048245     VOLUME   544342.531 3755217.751 282.71
   LOCATION L0048246     VOLUME   544346.189 3755217.732 282.70
   LOCATION L0048247     VOLUME   544349.846 3755217.714 282.68
   LOCATION L0048248     VOLUME   544353.504 3755217.695 282.66
   LOCATION L0048249     VOLUME   544357.161 3755217.677 282.64
** End of LINE VOLUME Source ID = SLINE12
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE13
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** DESCRSRC On-site along Street C
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 5.02E-06
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
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** 544358.807, 3754970.151, 277.94, 0.00, 1.70
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   LOCATION L0048251     VOLUME   544106.223 3754969.522 279.03
   LOCATION L0048252     VOLUME   544109.880 3754969.531 279.02
   LOCATION L0048253     VOLUME   544113.538 3754969.540 279.01
   LOCATION L0048254     VOLUME   544117.196 3754969.549 279.01
   LOCATION L0048255     VOLUME   544120.853 3754969.558 279.00
   LOCATION L0048256     VOLUME   544124.511 3754969.567 278.99
   LOCATION L0048257     VOLUME   544128.168 3754969.576 278.99
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   LOCATION L0048264     VOLUME   544153.772 3754969.640 278.92
   LOCATION L0048265     VOLUME   544157.429 3754969.649 278.90
   LOCATION L0048266     VOLUME   544161.087 3754969.658 278.89
   LOCATION L0048267     VOLUME   544164.744 3754969.667 278.87
   LOCATION L0048268     VOLUME   544168.402 3754969.676 278.86
   LOCATION L0048269     VOLUME   544172.060 3754969.686 278.85
   LOCATION L0048270     VOLUME   544175.717 3754969.695 278.83
   LOCATION L0048271     VOLUME   544179.375 3754969.704 278.82
   LOCATION L0048272     VOLUME   544183.032 3754969.713 278.81
   LOCATION L0048273     VOLUME   544186.690 3754969.722 278.79
   LOCATION L0048274     VOLUME   544190.347 3754969.731 278.78
   LOCATION L0048275     VOLUME   544194.005 3754969.740 278.77
   LOCATION L0048276     VOLUME   544197.663 3754969.749 278.76
   LOCATION L0048277     VOLUME   544201.320 3754969.758 278.74
   LOCATION L0048278     VOLUME   544204.978 3754969.768 278.73
   LOCATION L0048279     VOLUME   544208.635 3754969.777 278.72
   LOCATION L0048280     VOLUME   544212.293 3754969.786 278.71
   LOCATION L0048281     VOLUME   544215.951 3754969.795 278.69
   LOCATION L0048282     VOLUME   544219.608 3754969.804 278.68
   LOCATION L0048283     VOLUME   544223.266 3754969.813 278.66
   LOCATION L0048284     VOLUME   544226.923 3754969.822 278.65
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   LOCATION L0048287     VOLUME   544237.896 3754969.850 278.60
   LOCATION L0048288     VOLUME   544241.554 3754969.859 278.58
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   LOCATION L0048289     VOLUME   544245.211 3754969.868 278.57
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   LOCATION L0048291     VOLUME   544252.526 3754969.886 278.53
   LOCATION L0048292     VOLUME   544256.184 3754969.895 278.52
   LOCATION L0048293     VOLUME   544259.842 3754969.904 278.50
   LOCATION L0048294     VOLUME   544263.499 3754969.913 278.49
   LOCATION L0048295     VOLUME   544267.157 3754969.922 278.47
   LOCATION L0048296     VOLUME   544270.814 3754969.932 278.45
   LOCATION L0048297     VOLUME   544274.472 3754969.941 278.43
   LOCATION L0048298     VOLUME   544278.130 3754969.950 278.41
   LOCATION L0048299     VOLUME   544281.787 3754969.959 278.39
   LOCATION L0048300     VOLUME   544285.445 3754969.968 278.37
   LOCATION L0048301     VOLUME   544289.102 3754969.977 278.35
   LOCATION L0048302     VOLUME   544292.760 3754969.986 278.33
   LOCATION L0048303     VOLUME   544296.418 3754969.995 278.31
   LOCATION L0048304     VOLUME   544300.075 3754970.004 278.29
   LOCATION L0048305     VOLUME   544303.733 3754970.013 278.27
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   LOCATION L0048308     VOLUME   544314.705 3754970.041 278.22
   LOCATION L0048309     VOLUME   544318.363 3754970.050 278.20
   LOCATION L0048310     VOLUME   544322.021 3754970.059 278.18
   LOCATION L0048311     VOLUME   544325.678 3754970.068 278.16
   LOCATION L0048312     VOLUME   544329.336 3754970.077 278.15
   LOCATION L0048313     VOLUME   544332.993 3754970.086 278.13
   LOCATION L0048314     VOLUME   544336.651 3754970.095 278.12
   LOCATION L0048315     VOLUME   544340.309 3754970.105 278.10
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   LOCATION L0048317     VOLUME   544347.624 3754970.123 278.07
   LOCATION L0048318     VOLUME   544351.281 3754970.132 278.05
   LOCATION L0048319     VOLUME   544354.939 3754970.141 278.03
   LOCATION L0048320     VOLUME   544358.597 3754970.150 278.02
** End of LINE VOLUME Source ID = SLINE13
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE14
** DESCRSRC Little Morongo - 15th Ave to 2 Bunch Palms Trail
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 7.65E-06
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
** 543688.071, 3755635.085, 294.12, 0.00, 1.70
** 543690.283, 3756364.348, 307.62, 0.00, 1.70
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   LOCATION L0048321     VOLUME   543688.077 3755636.914 294.09
   LOCATION L0048322     VOLUME   543688.088 3755640.571 294.17
   LOCATION L0048323     VOLUME   543688.099 3755644.229 294.24
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LOCATION L0048324     VOLUME   543688.110 3755647.887 294.32
LOCATION L0048325     VOLUME   543688.121 3755651.544 294.40
LOCATION L0048326     VOLUME   543688.132 3755655.202 294.47
LOCATION L0048327     VOLUME   543688.143 3755658.859 294.55
LOCATION L0048328     VOLUME   543688.154 3755662.517 294.63
LOCATION L0048329     VOLUME   543688.165 3755666.174 294.70
LOCATION L0048330     VOLUME   543688.176 3755669.832 294.78
LOCATION L0048331     VOLUME   543688.188 3755673.490 294.86
LOCATION L0048332     VOLUME   543688.199 3755677.147 294.93
LOCATION L0048333     VOLUME   543688.210 3755680.805 295.01
LOCATION L0048334     VOLUME   543688.221 3755684.462 295.09
LOCATION L0048335     VOLUME   543688.232 3755688.120 295.17
LOCATION L0048336     VOLUME   543688.243 3755691.778 295.24
LOCATION L0048337     VOLUME   543688.254 3755695.435 295.32
LOCATION L0048338     VOLUME   543688.265 3755699.093 295.40
LOCATION L0048339     VOLUME   543688.276 3755702.750 295.48
LOCATION L0048340     VOLUME   543688.287 3755706.408 295.55
LOCATION L0048341     VOLUME   543688.298 3755710.065 295.63
LOCATION L0048342     VOLUME   543688.310 3755713.723 295.71
LOCATION L0048343     VOLUME   543688.321 3755717.381 295.79
LOCATION L0048344     VOLUME   543688.332 3755721.038 295.86
LOCATION L0048345     VOLUME   543688.343 3755724.696 295.94
LOCATION L0048346     VOLUME   543688.354 3755728.353 296.02
LOCATION L0048347     VOLUME   543688.365 3755732.011 296.10
LOCATION L0048348     VOLUME   543688.376 3755735.669 296.18
LOCATION L0048349     VOLUME   543688.387 3755739.326 296.26
LOCATION L0048350     VOLUME   543688.398 3755742.984 296.33
LOCATION L0048351     VOLUME   543688.409 3755746.641 296.41
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LOCATION L0048359     VOLUME   543688.498 3755775.902 297.00
LOCATION L0048360     VOLUME   543688.509 3755779.560 297.08
LOCATION L0048361     VOLUME   543688.520 3755783.217 297.15
LOCATION L0048362     VOLUME   543688.531 3755786.875 297.22
LOCATION L0048363     VOLUME   543688.543 3755790.532 297.30
LOCATION L0048364     VOLUME   543688.554 3755794.190 297.37
LOCATION L0048365     VOLUME   543688.565 3755797.847 297.44
LOCATION L0048366     VOLUME   543688.576 3755801.505 297.51
LOCATION L0048367     VOLUME   543688.587 3755805.163 297.59
LOCATION L0048368     VOLUME   543688.598 3755808.820 297.66
LOCATION L0048369     VOLUME   543688.609 3755812.478 297.73
LOCATION L0048370     VOLUME   543688.620 3755816.135 297.81
LOCATION L0048371     VOLUME   543688.631 3755819.793 297.88
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LOCATION L0048374     VOLUME   543688.665 3755830.766 298.10
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LOCATION L0048376     VOLUME   543688.687 3755838.081 298.25
LOCATION L0048377     VOLUME   543688.698 3755841.738 298.32
LOCATION L0048378     VOLUME   543688.709 3755845.396 298.39
LOCATION L0048379     VOLUME   543688.720 3755849.054 298.47
LOCATION L0048380     VOLUME   543688.731 3755852.711 298.54
LOCATION L0048381     VOLUME   543688.742 3755856.369 298.61
LOCATION L0048382     VOLUME   543688.753 3755860.026 298.69
LOCATION L0048383     VOLUME   543688.764 3755863.684 298.76
LOCATION L0048384     VOLUME   543688.776 3755867.341 298.84
LOCATION L0048385     VOLUME   543688.787 3755870.999 298.91
LOCATION L0048386     VOLUME   543688.798 3755874.657 298.99
LOCATION L0048387     VOLUME   543688.809 3755878.314 299.06
LOCATION L0048388     VOLUME   543688.820 3755881.972 299.14
LOCATION L0048389     VOLUME   543688.831 3755885.629 299.22
LOCATION L0048390     VOLUME   543688.842 3755889.287 299.29
LOCATION L0048391     VOLUME   543688.853 3755892.945 299.37
LOCATION L0048392     VOLUME   543688.864 3755896.602 299.45
LOCATION L0048393     VOLUME   543688.875 3755900.260 299.52
LOCATION L0048394     VOLUME   543688.887 3755903.917 299.59
LOCATION L0048395     VOLUME   543688.898 3755907.575 299.66
LOCATION L0048396     VOLUME   543688.909 3755911.232 299.73
LOCATION L0048397     VOLUME   543688.920 3755914.890 299.80
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LOCATION L0048399     VOLUME   543688.942 3755922.205 299.95
LOCATION L0048400     VOLUME   543688.953 3755925.863 300.02
LOCATION L0048401     VOLUME   543688.964 3755929.520 300.09
LOCATION L0048402     VOLUME   543688.975 3755933.178 300.16
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LOCATION L0048405     VOLUME   543689.009 3755944.151 300.37
LOCATION L0048406     VOLUME   543689.020 3755947.808 300.43
LOCATION L0048407     VOLUME   543689.031 3755951.466 300.50
LOCATION L0048408     VOLUME   543689.042 3755955.123 300.57
LOCATION L0048409     VOLUME   543689.053 3755958.781 300.64
LOCATION L0048410     VOLUME   543689.064 3755962.439 300.70
LOCATION L0048411     VOLUME   543689.075 3755966.096 300.77
LOCATION L0048412     VOLUME   543689.086 3755969.754 300.83
LOCATION L0048413     VOLUME   543689.097 3755973.411 300.89
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LOCATION L0048415     VOLUME   543689.120 3755980.727 301.02
LOCATION L0048416     VOLUME   543689.131 3755984.384 301.08
LOCATION L0048417     VOLUME   543689.142 3755988.042 301.15
LOCATION L0048418     VOLUME   543689.153 3755991.699 301.22
LOCATION L0048419     VOLUME   543689.164 3755995.357 301.28
LOCATION L0048420     VOLUME   543689.175 3755999.014 301.35
LOCATION L0048421     VOLUME   543689.186 3756002.672 301.42
LOCATION L0048422     VOLUME   543689.197 3756006.330 301.49
LOCATION L0048423     VOLUME   543689.208 3756009.987 301.56
LOCATION L0048424     VOLUME   543689.219 3756013.645 301.63
LOCATION L0048425     VOLUME   543689.230 3756017.302 301.70
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LOCATION L0048427     VOLUME   543689.253 3756024.618 301.83
LOCATION L0048428     VOLUME   543689.264 3756028.275 301.90
LOCATION L0048429     VOLUME   543689.275 3756031.933 301.96
LOCATION L0048430     VOLUME   543689.286 3756035.590 302.03
LOCATION L0048431     VOLUME   543689.297 3756039.248 302.09
LOCATION L0048432     VOLUME   543689.308 3756042.905 302.16
LOCATION L0048433     VOLUME   543689.319 3756046.563 302.22
LOCATION L0048434     VOLUME   543689.330 3756050.221 302.29
LOCATION L0048435     VOLUME   543689.341 3756053.878 302.36
LOCATION L0048436     VOLUME   543689.353 3756057.536 302.43
LOCATION L0048437     VOLUME   543689.364 3756061.193 302.50
LOCATION L0048438     VOLUME   543689.375 3756064.851 302.58
LOCATION L0048439     VOLUME   543689.386 3756068.509 302.65
LOCATION L0048440     VOLUME   543689.397 3756072.166 302.72
LOCATION L0048441     VOLUME   543689.408 3756075.824 302.79
LOCATION L0048442     VOLUME   543689.419 3756079.481 302.87
LOCATION L0048443     VOLUME   543689.430 3756083.139 302.94
LOCATION L0048444     VOLUME   543689.441 3756086.796 303.01
LOCATION L0048445     VOLUME   543689.452 3756090.454 303.07
LOCATION L0048446     VOLUME   543689.463 3756094.112 303.14
LOCATION L0048447     VOLUME   543689.475 3756097.769 303.21
LOCATION L0048448     VOLUME   543689.486 3756101.427 303.28
LOCATION L0048449     VOLUME   543689.497 3756105.084 303.35
LOCATION L0048450     VOLUME   543689.508 3756108.742 303.41
LOCATION L0048451     VOLUME   543689.519 3756112.400 303.48
LOCATION L0048452     VOLUME   543689.530 3756116.057 303.56
LOCATION L0048453     VOLUME   543689.541 3756119.715 303.64
LOCATION L0048454     VOLUME   543689.552 3756123.372 303.72
LOCATION L0048455     VOLUME   543689.563 3756127.030 303.80
LOCATION L0048456     VOLUME   543689.574 3756130.687 303.87
LOCATION L0048457     VOLUME   543689.586 3756134.345 303.95
LOCATION L0048458     VOLUME   543689.597 3756138.003 304.03
LOCATION L0048459     VOLUME   543689.608 3756141.660 304.11
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LOCATION L0048461     VOLUME   543689.630 3756148.975 304.24
LOCATION L0048462     VOLUME   543689.641 3756152.633 304.30
LOCATION L0048463     VOLUME   543689.652 3756156.291 304.36
LOCATION L0048464     VOLUME   543689.663 3756159.948 304.42
LOCATION L0048465     VOLUME   543689.674 3756163.606 304.48
LOCATION L0048466     VOLUME   543689.685 3756167.263 304.54
LOCATION L0048467     VOLUME   543689.696 3756170.921 304.60
LOCATION L0048468     VOLUME   543689.708 3756174.578 304.67
LOCATION L0048469     VOLUME   543689.719 3756178.236 304.73
LOCATION L0048470     VOLUME   543689.730 3756181.894 304.80
LOCATION L0048471     VOLUME   543689.741 3756185.551 304.87
LOCATION L0048472     VOLUME   543689.752 3756189.209 304.93
LOCATION L0048473     VOLUME   543689.763 3756192.866 305.00
LOCATION L0048474     VOLUME   543689.774 3756196.524 305.07
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LOCATION L0048476     VOLUME   543689.796 3756203.839 305.20
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   LOCATION L0048478     VOLUME   543689.819 3756211.154 305.31
   LOCATION L0048479     VOLUME   543689.830 3756214.812 305.36
   LOCATION L0048480     VOLUME   543689.841 3756218.469 305.41
   LOCATION L0048481     VOLUME   543689.852 3756222.127 305.47
   LOCATION L0048482     VOLUME   543689.863 3756225.785 305.52
   LOCATION L0048483     VOLUME   543689.874 3756229.442 305.57
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   LOCATION L0048489     VOLUME   543689.941 3756251.388 305.87
   LOCATION L0048490     VOLUME   543689.952 3756255.045 305.92
   LOCATION L0048491     VOLUME   543689.963 3756258.703 305.97
   LOCATION L0048492     VOLUME   543689.974 3756262.360 306.02
   LOCATION L0048493     VOLUME   543689.985 3756266.018 306.07
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   LOCATION L0048497     VOLUME   543690.029 3756280.648 306.34
   LOCATION L0048498     VOLUME   543690.040 3756284.306 306.41
   LOCATION L0048499     VOLUME   543690.051 3756287.964 306.48
   LOCATION L0048500     VOLUME   543690.063 3756291.621 306.55
   LOCATION L0048501     VOLUME   543690.074 3756295.279 306.62
   LOCATION L0048502     VOLUME   543690.085 3756298.936 306.68
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   LOCATION L0048507     VOLUME   543690.140 3756317.224 306.92
   LOCATION L0048508     VOLUME   543690.151 3756320.882 306.97
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   LOCATION L0048510     VOLUME   543690.174 3756328.197 307.07
   LOCATION L0048511     VOLUME   543690.185 3756331.855 307.14
   LOCATION L0048512     VOLUME   543690.196 3756335.512 307.21
   LOCATION L0048513     VOLUME   543690.207 3756339.170 307.27
   LOCATION L0048514     VOLUME   543690.218 3756342.827 307.34
   LOCATION L0048515     VOLUME   543690.229 3756346.485 307.40
   LOCATION L0048516     VOLUME   543690.240 3756350.142 307.47
   LOCATION L0048517     VOLUME   543690.251 3756353.800 307.53
   LOCATION L0048518     VOLUME   543690.262 3756357.458 307.60
   LOCATION L0048519     VOLUME   543690.273 3756361.115 307.67
** End of LINE VOLUME Source ID = SLINE14
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE15
** DESCRSRC 2 Bunch Palms Trail - Little Morongo to Palm
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
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** Emission Rate = 0.0000121
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 4
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** 544983.680, 3756374.383, 296.81, 0.00, 1.70
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** 546082.496, 3756373.987, 285.84, 0.00, 1.70
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   LOCATION L0048521     VOLUME   543699.887 3756365.702 307.66
   LOCATION L0048522     VOLUME   543703.545 3756365.726 307.65
   LOCATION L0048523     VOLUME   543707.202 3756365.751 307.65
   LOCATION L0048524     VOLUME   543710.860 3756365.776 307.65
   LOCATION L0048525     VOLUME   543714.517 3756365.801 307.64
   LOCATION L0048526     VOLUME   543718.175 3756365.825 307.64
   LOCATION L0048527     VOLUME   543721.832 3756365.850 307.64
   LOCATION L0048528     VOLUME   543725.490 3756365.875 307.64
   LOCATION L0048529     VOLUME   543729.147 3756365.900 307.61
   LOCATION L0048530     VOLUME   543732.805 3756365.924 307.59
   LOCATION L0048531     VOLUME   543736.462 3756365.949 307.57
   LOCATION L0048532     VOLUME   543740.120 3756365.974 307.55
   LOCATION L0048533     VOLUME   543743.777 3756365.998 307.53
   LOCATION L0048534     VOLUME   543747.435 3756366.023 307.50
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   LOCATION L0048539     VOLUME   543765.722 3756366.147 307.37
   LOCATION L0048540     VOLUME   543769.380 3756366.172 307.34
   LOCATION L0048541     VOLUME   543773.038 3756366.196 307.31
   LOCATION L0048542     VOLUME   543776.695 3756366.221 307.28
   LOCATION L0048543     VOLUME   543780.353 3756366.246 307.21
   LOCATION L0048544     VOLUME   543784.010 3756366.271 307.15
   LOCATION L0048545     VOLUME   543787.668 3756366.295 307.08
   LOCATION L0048546     VOLUME   543791.325 3756366.320 307.01
   LOCATION L0048547     VOLUME   543794.983 3756366.345 306.94
   LOCATION L0048548     VOLUME   543798.640 3756366.369 306.87
   LOCATION L0048549     VOLUME   543802.298 3756366.394 306.81
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   LOCATION L0048554     VOLUME   543820.585 3756366.518 306.47
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   LOCATION L0048556     VOLUME   543827.900 3756366.567 306.34
   LOCATION L0048557     VOLUME   543831.558 3756366.592 306.30
   LOCATION L0048558     VOLUME   543835.215 3756366.617 306.27
   LOCATION L0048559     VOLUME   543838.873 3756366.642 306.24
   LOCATION L0048560     VOLUME   543842.530 3756366.666 306.21
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LOCATION L0048562     VOLUME   543849.845 3756366.716 306.14
LOCATION L0048563     VOLUME   543853.503 3756366.740 306.11
LOCATION L0048564     VOLUME   543857.160 3756366.765 306.12
LOCATION L0048565     VOLUME   543860.818 3756366.790 306.14
LOCATION L0048566     VOLUME   543864.475 3756366.815 306.16
LOCATION L0048567     VOLUME   543868.133 3756366.839 306.17
LOCATION L0048568     VOLUME   543871.790 3756366.864 306.19
LOCATION L0048569     VOLUME   543875.448 3756366.889 306.21
LOCATION L0048570     VOLUME   543879.105 3756366.914 306.23
LOCATION L0048571     VOLUME   543882.763 3756366.938 306.21
LOCATION L0048572     VOLUME   543886.421 3756366.963 306.19
LOCATION L0048573     VOLUME   543890.078 3756366.988 306.17
LOCATION L0048574     VOLUME   543893.736 3756367.013 306.15
LOCATION L0048575     VOLUME   543897.393 3756367.037 306.13
LOCATION L0048576     VOLUME   543901.051 3756367.062 306.11
LOCATION L0048577     VOLUME   543904.708 3756367.087 306.09
LOCATION L0048578     VOLUME   543908.366 3756367.111 306.06
LOCATION L0048579     VOLUME   543912.023 3756367.136 306.03
LOCATION L0048580     VOLUME   543915.681 3756367.161 305.99
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LOCATION L0048583     VOLUME   543926.653 3756367.235 305.89
LOCATION L0048584     VOLUME   543930.311 3756367.260 305.85
LOCATION L0048585     VOLUME   543933.968 3756367.285 305.82
LOCATION L0048586     VOLUME   543937.626 3756367.309 305.79
LOCATION L0048587     VOLUME   543941.283 3756367.334 305.76
LOCATION L0048588     VOLUME   543944.941 3756367.359 305.73
LOCATION L0048589     VOLUME   543948.598 3756367.384 305.69
LOCATION L0048590     VOLUME   543952.256 3756367.408 305.66
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LOCATION L0048592     VOLUME   543959.571 3756367.458 305.60
LOCATION L0048593     VOLUME   543963.228 3756367.483 305.56
LOCATION L0048594     VOLUME   543966.886 3756367.507 305.53
LOCATION L0048595     VOLUME   543970.543 3756367.532 305.49
LOCATION L0048596     VOLUME   543974.201 3756367.557 305.46
LOCATION L0048597     VOLUME   543977.858 3756367.581 305.42
LOCATION L0048598     VOLUME   543981.516 3756367.606 305.39
LOCATION L0048599     VOLUME   543985.173 3756367.631 305.36
LOCATION L0048600     VOLUME   543988.831 3756367.656 305.33
LOCATION L0048601     VOLUME   543992.489 3756367.680 305.30
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LOCATION L0048603     VOLUME   543999.804 3756367.730 305.24
LOCATION L0048604     VOLUME   544003.461 3756367.755 305.22
LOCATION L0048605     VOLUME   544007.119 3756367.779 305.19
LOCATION L0048606     VOLUME   544010.776 3756367.804 305.16
LOCATION L0048607     VOLUME   544014.434 3756367.829 305.13
LOCATION L0048608     VOLUME   544018.091 3756367.854 305.10
LOCATION L0048609     VOLUME   544021.749 3756367.878 305.07
LOCATION L0048610     VOLUME   544025.406 3756367.903 305.04
LOCATION L0048611     VOLUME   544029.064 3756367.928 305.01
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LOCATION L0049017     VOLUME   545514.009 3756369.923 292.61
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LOCATION L0049023     VOLUME   545535.954 3756369.738 292.52
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LOCATION L0049105     VOLUME   545835.860 3756371.193 288.84
LOCATION L0049106     VOLUME   545839.518 3756371.234 288.81
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LOCATION L0049121     VOLUME   545894.378 3756371.856 288.27
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LOCATION L0049134     VOLUME   545941.924 3756372.394 287.89
LOCATION L0049135     VOLUME   545945.581 3756372.436 287.85
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LOCATION L0049137     VOLUME   545952.896 3756372.518 287.78
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LOCATION L0049140     VOLUME   545963.868 3756372.643 287.65
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LOCATION L0049144     VOLUME   545978.498 3756372.809 287.46
LOCATION L0049145     VOLUME   545982.155 3756372.850 287.41
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LOCATION L0049147     VOLUME   545989.470 3756372.933 287.30
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LOCATION L0049164     VOLUME   546051.645 3756373.637 286.40
LOCATION L0049165     VOLUME   546055.302 3756373.679 286.35
LOCATION L0049166     VOLUME   546058.960 3756373.720 286.30
LOCATION L0049167     VOLUME   546062.617 3756373.761 286.25
LOCATION L0049168     VOLUME   546066.274 3756373.803 286.19
LOCATION L0049169     VOLUME   546069.932 3756373.844 286.14
LOCATION L0049170     VOLUME   546073.589 3756373.886 286.09
LOCATION L0049171     VOLUME   546077.246 3756373.927 286.04
LOCATION L0049172     VOLUME   546080.904 3756373.969 285.99
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE16
** DESCRSRC Little Morongo - North 2 Bunch Trails
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 4.84E-06
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
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** 543678.747, 3757263.016, 325.23, 0.00, 1.70
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   LOCATION L0049181     VOLUME   543688.058 3756399.479 308.48
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   LOCATION L0049184     VOLUME   543687.940 3756410.451 308.75
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   LOCATION L0049186     VOLUME   543687.861 3756417.766 308.93
   LOCATION L0049187     VOLUME   543687.821 3756421.423 309.02
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   LOCATION L0049189     VOLUME   543687.742 3756428.738 309.20
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   LOCATION L0049191     VOLUME   543687.664 3756436.053 309.37
   LOCATION L0049192     VOLUME   543687.624 3756439.710 309.46
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   LOCATION L0049194     VOLUME   543687.545 3756447.025 309.63
   LOCATION L0049195     VOLUME   543687.506 3756450.682 309.72
   LOCATION L0049196     VOLUME   543687.466 3756454.340 309.79
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   LOCATION L0049199     VOLUME   543687.348 3756465.312 309.97
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   LOCATION L0049201     VOLUME   543687.269 3756472.627 310.09
   LOCATION L0049202     VOLUME   543687.230 3756476.284 310.15
   LOCATION L0049203     VOLUME   543687.190 3756479.942 310.21
   LOCATION L0049204     VOLUME   543687.151 3756483.599 310.27
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   LOCATION L0049206     VOLUME   543687.072 3756490.914 310.38
   LOCATION L0049207     VOLUME   543687.033 3756494.571 310.44
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LOCATION L0049221     VOLUME   543686.481 3756545.774 311.15
LOCATION L0049222     VOLUME   543686.441 3756549.432 311.20
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LOCATION L0049226     VOLUME   543686.283 3756564.061 311.40
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LOCATION L0049234     VOLUME   543685.968 3756593.321 311.80
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LOCATION L0049236     VOLUME   543685.889 3756600.635 311.91
LOCATION L0049237     VOLUME   543685.850 3756604.293 311.96
LOCATION L0049238     VOLUME   543685.810 3756607.950 312.02
LOCATION L0049239     VOLUME   543685.771 3756611.607 312.08
LOCATION L0049240     VOLUME   543685.731 3756615.265 312.14
LOCATION L0049241     VOLUME   543685.692 3756618.922 312.20
LOCATION L0049242     VOLUME   543685.652 3756622.580 312.27
LOCATION L0049243     VOLUME   543685.613 3756626.237 312.33
LOCATION L0049244     VOLUME   543685.574 3756629.894 312.39
LOCATION L0049245     VOLUME   543685.534 3756633.552 312.45
LOCATION L0049246     VOLUME   543685.495 3756637.209 312.51
LOCATION L0049247     VOLUME   543685.455 3756640.867 312.58
LOCATION L0049248     VOLUME   543685.416 3756644.524 312.64
LOCATION L0049249     VOLUME   543685.376 3756648.181 312.70
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LOCATION L0049251     VOLUME   543685.298 3756655.496 312.83
LOCATION L0049252     VOLUME   543685.258 3756659.153 312.89
LOCATION L0049253     VOLUME   543685.219 3756662.811 312.95
LOCATION L0049254     VOLUME   543685.179 3756666.468 313.01
LOCATION L0049255     VOLUME   543685.140 3756670.126 313.09
LOCATION L0049256     VOLUME   543685.100 3756673.783 313.16
LOCATION L0049257     VOLUME   543685.061 3756677.440 313.24
LOCATION L0049258     VOLUME   543685.021 3756681.098 313.31
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LOCATION L0049260     VOLUME   543684.943 3756688.413 313.46
LOCATION L0049261     VOLUME   543684.903 3756692.070 313.53
LOCATION L0049262     VOLUME   543684.864 3756695.727 313.61
LOCATION L0049263     VOLUME   543684.824 3756699.385 313.69
LOCATION L0049264     VOLUME   543684.785 3756703.042 313.76
LOCATION L0049265     VOLUME   543684.745 3756706.700 313.84
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LOCATION L0049268     VOLUME   543684.627 3756717.672 314.08
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LOCATION L0049270     VOLUME   543684.548 3756724.986 314.24
LOCATION L0049271     VOLUME   543684.509 3756728.644 314.32
LOCATION L0049272     VOLUME   543684.469 3756732.301 314.39
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LOCATION L0049287     VOLUME   543683.878 3756787.162 315.53
LOCATION L0049288     VOLUME   543683.838 3756790.819 315.60
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LOCATION L0049296     VOLUME   543683.523 3756820.079 316.14
LOCATION L0049297     VOLUME   543683.484 3756823.736 316.20
LOCATION L0049298     VOLUME   543683.444 3756827.393 316.26
LOCATION L0049299     VOLUME   543683.405 3756831.051 316.32
LOCATION L0049300     VOLUME   543683.365 3756834.708 316.39
LOCATION L0049301     VOLUME   543683.326 3756838.365 316.45
LOCATION L0049302     VOLUME   543683.286 3756842.023 316.51
LOCATION L0049303     VOLUME   543683.247 3756845.680 316.57
LOCATION L0049304     VOLUME   543683.207 3756849.338 316.63
LOCATION L0049305     VOLUME   543683.168 3756852.995 316.69
LOCATION L0049306     VOLUME   543683.129 3756856.652 316.76
LOCATION L0049307     VOLUME   543683.089 3756860.310 316.83
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LOCATION L0049309     VOLUME   543683.010 3756867.625 316.96
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LOCATION L0049316     VOLUME   543682.734 3756893.226 317.44
LOCATION L0049317     VOLUME   543682.695 3756896.884 317.52
LOCATION L0049318     VOLUME   543682.655 3756900.541 317.59
LOCATION L0049319     VOLUME   543682.616 3756904.198 317.66
LOCATION L0049320     VOLUME   543682.577 3756907.856 317.73
LOCATION L0049321     VOLUME   543682.537 3756911.513 317.80
LOCATION L0049322     VOLUME   543682.498 3756915.171 317.88
LOCATION L0049323     VOLUME   543682.458 3756918.828 317.95
LOCATION L0049324     VOLUME   543682.419 3756922.485 318.03
LOCATION L0049325     VOLUME   543682.379 3756926.143 318.10
LOCATION L0049326     VOLUME   543682.340 3756929.800 318.18
LOCATION L0049327     VOLUME   543682.300 3756933.458 318.25
LOCATION L0049328     VOLUME   543682.261 3756937.115 318.33
LOCATION L0049329     VOLUME   543682.222 3756940.772 318.41
LOCATION L0049330     VOLUME   543682.182 3756944.430 318.48
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LOCATION L0049333     VOLUME   543682.064 3756955.402 318.71
LOCATION L0049334     VOLUME   543682.024 3756959.059 318.79
LOCATION L0049335     VOLUME   543681.985 3756962.717 318.87
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LOCATION L0049337     VOLUME   543681.906 3756970.031 319.03
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LOCATION L0049341     VOLUME   543681.748 3756984.661 319.33
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LOCATION L0049346     VOLUME   543681.551 3757002.948 319.70
LOCATION L0049347     VOLUME   543681.512 3757006.605 319.77
LOCATION L0049348     VOLUME   543681.472 3757010.263 319.85
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LOCATION L0049350     VOLUME   543681.393 3757017.577 320.01
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LOCATION L0049352     VOLUME   543681.315 3757024.892 320.17
LOCATION L0049353     VOLUME   543681.275 3757028.550 320.25
LOCATION L0049354     VOLUME   543681.236 3757032.207 320.33
LOCATION L0049355     VOLUME   543681.196 3757035.864 320.41
LOCATION L0049356     VOLUME   543681.157 3757039.522 320.51
LOCATION L0049357     VOLUME   543681.117 3757043.179 320.61
LOCATION L0049358     VOLUME   543681.078 3757046.837 320.71
LOCATION L0049359     VOLUME   543681.039 3757050.494 320.82
LOCATION L0049360     VOLUME   543680.999 3757054.151 320.92
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LOCATION L0049363     VOLUME   543680.881 3757065.124 321.23
LOCATION L0049364     VOLUME   543680.841 3757068.781 321.33
LOCATION L0049365     VOLUME   543680.802 3757072.438 321.42
LOCATION L0049366     VOLUME   543680.763 3757076.096 321.51
LOCATION L0049367     VOLUME   543680.723 3757079.753 321.60
LOCATION L0049368     VOLUME   543680.684 3757083.410 321.70
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LOCATION L0049372     VOLUME   543680.526 3757098.040 322.07
LOCATION L0049373     VOLUME   543680.486 3757101.697 322.16
LOCATION L0049374     VOLUME   543680.447 3757105.355 322.26
LOCATION L0049375     VOLUME   543680.408 3757109.012 322.36
LOCATION L0049376     VOLUME   543680.368 3757112.670 322.45
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LOCATION L0049381     VOLUME   543680.171 3757130.956 322.92
LOCATION L0049382     VOLUME   543680.132 3757134.614 323.00
LOCATION L0049383     VOLUME   543680.092 3757138.271 323.08
LOCATION L0049384     VOLUME   543680.053 3757141.929 323.16
LOCATION L0049385     VOLUME   543680.013 3757145.586 323.23
LOCATION L0049386     VOLUME   543679.974 3757149.243 323.31
LOCATION L0049387     VOLUME   543679.934 3757152.901 323.39
LOCATION L0049388     VOLUME   543679.895 3757156.558 323.47
LOCATION L0049389     VOLUME   543679.856 3757160.216 323.54
LOCATION L0049390     VOLUME   543679.816 3757163.873 323.61
LOCATION L0049391     VOLUME   543679.777 3757167.530 323.68
LOCATION L0049392     VOLUME   543679.737 3757171.188 323.75
LOCATION L0049393     VOLUME   543679.698 3757174.845 323.82
LOCATION L0049394     VOLUME   543679.658 3757178.503 323.89
LOCATION L0049395     VOLUME   543679.619 3757182.160 323.95
LOCATION L0049396     VOLUME   543679.580 3757185.817 324.02
LOCATION L0049397     VOLUME   543679.540 3757189.475 324.09
LOCATION L0049398     VOLUME   543679.501 3757193.132 324.15
LOCATION L0049399     VOLUME   543679.461 3757196.789 324.21
LOCATION L0049400     VOLUME   543679.422 3757200.447 324.27
LOCATION L0049401     VOLUME   543679.382 3757204.104 324.33
LOCATION L0049402     VOLUME   543679.343 3757207.762 324.39
LOCATION L0049403     VOLUME   543679.303 3757211.419 324.45
LOCATION L0049404     VOLUME   543679.264 3757215.076 324.51
LOCATION L0049405     VOLUME   543679.225 3757218.734 324.57
LOCATION L0049406     VOLUME   543679.185 3757222.391 324.64
LOCATION L0049407     VOLUME   543679.146 3757226.049 324.70
LOCATION L0049408     VOLUME   543679.106 3757229.706 324.77
LOCATION L0049409     VOLUME   543679.067 3757233.363 324.83
LOCATION L0049410     VOLUME   543679.027 3757237.021 324.90
LOCATION L0049411     VOLUME   543678.988 3757240.678 324.96
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   LOCATION L0049412     VOLUME   543678.949 3757244.335 325.03
   LOCATION L0049413     VOLUME   543678.909 3757247.993 325.10
   LOCATION L0049414     VOLUME   543678.870 3757251.650 325.16
   LOCATION L0049415     VOLUME   543678.830 3757255.308 325.24
   LOCATION L0049416     VOLUME   543678.791 3757258.965 325.32
   LOCATION L0049417     VOLUME   543678.751 3757262.622 325.40
** End of LINE VOLUME Source ID = SLINE16
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE17
** DESCRSRC Dillon Road - Little Morongo to Palm
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.0000242
** Elevated
** Vertical Dimension = 3.28
** SZINIT = 0.76
** Nodes = 2
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** 546058.347, 3753939.267, 251.79, 0.00, 1.70
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   LOCATION L0049419     VOLUME   543679.710 3753932.224 262.44
   LOCATION L0049420     VOLUME   543683.368 3753932.235 262.42
   LOCATION L0049421     VOLUME   543687.026 3753932.245 262.41
   LOCATION L0049422     VOLUME   543690.683 3753932.256 262.40
   LOCATION L0049423     VOLUME   543694.341 3753932.267 262.39
   LOCATION L0049424     VOLUME   543697.998 3753932.278 262.38
   LOCATION L0049425     VOLUME   543701.656 3753932.289 262.37
   LOCATION L0049426     VOLUME   543705.314 3753932.300 262.36
   LOCATION L0049427     VOLUME   543708.971 3753932.310 262.35
   LOCATION L0049428     VOLUME   543712.629 3753932.321 262.34
   LOCATION L0049429     VOLUME   543716.286 3753932.332 262.33
   LOCATION L0049430     VOLUME   543719.944 3753932.343 262.32
   LOCATION L0049431     VOLUME   543723.601 3753932.354 262.31
   LOCATION L0049432     VOLUME   543727.259 3753932.365 262.30
   LOCATION L0049433     VOLUME   543730.917 3753932.375 262.29
   LOCATION L0049434     VOLUME   543734.574 3753932.386 262.28
   LOCATION L0049435     VOLUME   543738.232 3753932.397 262.27
   LOCATION L0049436     VOLUME   543741.889 3753932.408 262.26
   LOCATION L0049437     VOLUME   543745.547 3753932.419 262.25
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   LOCATION L0049439     VOLUME   543752.862 3753932.440 262.23
   LOCATION L0049440     VOLUME   543756.520 3753932.451 262.22
   LOCATION L0049441     VOLUME   543760.177 3753932.462 262.21
   LOCATION L0049442     VOLUME   543763.835 3753932.473 262.20
   LOCATION L0049443     VOLUME   543767.492 3753932.484 262.19
   LOCATION L0049444     VOLUME   543771.150 3753932.495 262.18
   LOCATION L0049445     VOLUME   543774.808 3753932.505 262.17
   LOCATION L0049446     VOLUME   543778.465 3753932.516 262.16
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LOCATION L0049448     VOLUME   543785.780 3753932.538 262.14
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LOCATION L0049454     VOLUME   543807.726 3753932.603 262.03
LOCATION L0049455     VOLUME   543811.383 3753932.614 262.01
LOCATION L0049456     VOLUME   543815.041 3753932.625 261.99
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LOCATION L0049458     VOLUME   543822.356 3753932.646 261.97
LOCATION L0049459     VOLUME   543826.014 3753932.657 261.97
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LOCATION L0049464     VOLUME   543844.302 3753932.711 261.91
LOCATION L0049465     VOLUME   543847.959 3753932.722 261.89
LOCATION L0049466     VOLUME   543851.617 3753932.733 261.87
LOCATION L0049467     VOLUME   543855.274 3753932.744 261.85
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LOCATION L0049471     VOLUME   543869.905 3753932.787 261.76
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LOCATION L0049474     VOLUME   543880.878 3753932.819 261.69
LOCATION L0049475     VOLUME   543884.535 3753932.830 261.66
LOCATION L0049476     VOLUME   543888.193 3753932.841 261.64
LOCATION L0049477     VOLUME   543891.850 3753932.852 261.61
LOCATION L0049478     VOLUME   543895.508 3753932.863 261.58
LOCATION L0049479     VOLUME   543899.165 3753932.874 261.56
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LOCATION L0049481     VOLUME   543906.481 3753932.895 261.50
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LOCATION L0049483     VOLUME   543913.796 3753932.917 261.44
LOCATION L0049484     VOLUME   543917.453 3753932.928 261.42
LOCATION L0049485     VOLUME   543921.111 3753932.939 261.40
LOCATION L0049486     VOLUME   543924.769 3753932.949 261.39
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LOCATION L0049488     VOLUME   543932.084 3753932.971 261.36
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LOCATION L0049490     VOLUME   543939.399 3753932.993 261.33
LOCATION L0049491     VOLUME   543943.057 3753933.004 261.31
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LOCATION L0049497     VOLUME   543965.002 3753933.069 261.08
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LOCATION L0049502     VOLUME   543983.290 3753933.123 261.03
LOCATION L0049503     VOLUME   543986.948 3753933.134 261.03
LOCATION L0049504     VOLUME   543990.605 3753933.144 261.02
LOCATION L0049505     VOLUME   543994.263 3753933.155 261.02
LOCATION L0049506     VOLUME   543997.920 3753933.166 260.99
LOCATION L0049507     VOLUME   544001.578 3753933.177 260.96
LOCATION L0049508     VOLUME   544005.235 3753933.188 260.93
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LOCATION L0049512     VOLUME   544019.866 3753933.231 260.81
LOCATION L0049513     VOLUME   544023.523 3753933.242 260.79
LOCATION L0049514     VOLUME   544027.181 3753933.253 260.77
LOCATION L0049515     VOLUME   544030.839 3753933.264 260.75
LOCATION L0049516     VOLUME   544034.496 3753933.274 260.73
LOCATION L0049517     VOLUME   544038.154 3753933.285 260.71
LOCATION L0049518     VOLUME   544041.811 3753933.296 260.69
LOCATION L0049519     VOLUME   544045.469 3753933.307 260.67
LOCATION L0049520     VOLUME   544049.126 3753933.318 260.68
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LOCATION L0049525     VOLUME   544067.414 3753933.372 260.71
LOCATION L0049526     VOLUME   544071.072 3753933.383 260.72
LOCATION L0049527     VOLUME   544074.730 3753933.393 260.71
LOCATION L0049528     VOLUME   544078.387 3753933.404 260.71
LOCATION L0049529     VOLUME   544082.045 3753933.415 260.70
LOCATION L0049530     VOLUME   544085.702 3753933.426 260.69
LOCATION L0049531     VOLUME   544089.360 3753933.437 260.69
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LOCATION L0049850     VOLUME   545256.129 3753936.892 256.55
LOCATION L0049851     VOLUME   545259.787 3753936.903 256.51
LOCATION L0049852     VOLUME   545263.444 3753936.913 256.47
LOCATION L0049853     VOLUME   545267.102 3753936.924 256.43
LOCATION L0049854     VOLUME   545270.759 3753936.935 256.39
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LOCATION L0049856     VOLUME   545278.075 3753936.957 256.32
LOCATION L0049857     VOLUME   545281.732 3753936.968 256.28
LOCATION L0049858     VOLUME   545285.390 3753936.978 256.24
LOCATION L0049859     VOLUME   545289.047 3753936.989 256.20
LOCATION L0049860     VOLUME   545292.705 3753937.000 256.16
LOCATION L0049861     VOLUME   545296.363 3753937.011 256.12
LOCATION L0049862     VOLUME   545300.020 3753937.022 256.09
LOCATION L0049863     VOLUME   545303.678 3753937.032 256.05
LOCATION L0049864     VOLUME   545307.335 3753937.043 256.02
LOCATION L0049865     VOLUME   545310.993 3753937.054 255.98
LOCATION L0049866     VOLUME   545314.650 3753937.065 255.95
LOCATION L0049867     VOLUME   545318.308 3753937.076 255.92
LOCATION L0049868     VOLUME   545321.966 3753937.087 255.89
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LOCATION L0049870     VOLUME   545329.281 3753937.108 255.83
LOCATION L0049871     VOLUME   545332.938 3753937.119 255.83
LOCATION L0049872     VOLUME   545336.596 3753937.130 255.82
LOCATION L0049873     VOLUME   545340.254 3753937.141 255.82
LOCATION L0049874     VOLUME   545343.911 3753937.152 255.82
LOCATION L0049875     VOLUME   545347.569 3753937.162 255.81
LOCATION L0049876     VOLUME   545351.226 3753937.173 255.81
LOCATION L0049877     VOLUME   545354.884 3753937.184 255.81
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LOCATION L0049885     VOLUME   545384.145 3753937.271 255.80
LOCATION L0049886     VOLUME   545387.802 3753937.282 255.79
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LOCATION L0049894     VOLUME   545417.063 3753937.368 255.73
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LOCATION L0049898     VOLUME   545431.693 3753937.412 255.70
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LOCATION L0049901     VOLUME   545442.666 3753937.444 255.68
LOCATION L0049902     VOLUME   545446.324 3753937.455 255.67
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LOCATION L0049904     VOLUME   545453.639 3753937.477 255.66
LOCATION L0049905     VOLUME   545457.296 3753937.487 255.65
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LOCATION L0049911     VOLUME   545479.242 3753937.552 255.62
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LOCATION L0049915     VOLUME   545493.872 3753937.596 255.56
LOCATION L0049916     VOLUME   545497.530 3753937.607 255.55
LOCATION L0049917     VOLUME   545501.187 3753937.617 255.53
LOCATION L0049918     VOLUME   545504.845 3753937.628 255.52
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LOCATION L0049948     VOLUME   545614.572 3753937.953 255.10
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LOCATION L0049955     VOLUME   545640.175 3753938.029 254.99
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LOCATION L0049975     VOLUME   545713.327 3753938.246 254.49
LOCATION L0049976     VOLUME   545716.985 3753938.256 254.47
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LOCATION L0049992     VOLUME   545775.506 3753938.430 254.04
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LOCATION L0049996     VOLUME   545790.136 3753938.473 253.92
LOCATION L0049997     VOLUME   545793.794 3753938.484 253.89
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LOCATION L0049999     VOLUME   545801.109 3753938.505 253.82
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LOCATION L0050007     VOLUME   545830.370 3753938.592 253.49
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LOCATION L0050015     VOLUME   545859.631 3753938.679 253.27
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LOCATION L0050018     VOLUME   545870.603 3753938.711 253.23
LOCATION L0050019     VOLUME   545874.261 3753938.722 253.21
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LOCATION L0050036     VOLUME   545936.440 3753938.906 252.59
LOCATION L0050037     VOLUME   545940.097 3753938.917 252.55
LOCATION L0050038     VOLUME   545943.755 3753938.928 252.52
LOCATION L0050039     VOLUME   545947.413 3753938.939 252.49
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LOCATION L0050045     VOLUME   545969.358 3753939.004 252.35
LOCATION L0050046     VOLUME   545973.016 3753939.014 252.32
LOCATION L0050047     VOLUME   545976.673 3753939.025 252.28
LOCATION L0050048     VOLUME   545980.331 3753939.036 252.24
LOCATION L0050049     VOLUME   545983.988 3753939.047 252.20
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LOCATION L0050054     VOLUME   546002.276 3753939.101 252.05
LOCATION L0050055     VOLUME   546005.934 3753939.112 252.04
LOCATION L0050056     VOLUME   546009.591 3753939.123 252.03
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LOCATION L0050058     VOLUME   546016.907 3753939.144 252.01
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   LOCATION L0050061     VOLUME   546027.879 3753939.177 251.97
   LOCATION L0050062     VOLUME   546031.537 3753939.188 251.95
   LOCATION L0050063     VOLUME   546035.195 3753939.199 251.94
   LOCATION L0050064     VOLUME   546038.852 3753939.209 251.92
   LOCATION L0050065     VOLUME   546042.510 3753939.220 251.91
   LOCATION L0050066     VOLUME   546046.167 3753939.231 251.89
   LOCATION L0050067     VOLUME   546049.825 3753939.242 251.88
   LOCATION L0050068     VOLUME   546053.482 3753939.253 251.87
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** End of LINE VOLUME Source ID = SLINE17
** Source Parameters **
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SRCPARAM L0046183     0.0000001237      0.00      1.70      0.76
SRCPARAM L0046184     0.0000001237      0.00      1.70      0.76
SRCPARAM L0046185     0.0000001237      0.00      1.70      0.76
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SRCPARAM L0046189     0.0000001237      0.00      1.70      0.76
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SRCPARAM L0046192     0.0000001237      0.00      1.70      0.76
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SRCPARAM L0046212     0.0000001237      0.00      1.70      0.76
SRCPARAM L0046213     0.0000001237      0.00      1.70      0.76
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SRCPARAM L0046218     0.0000001237      0.00      1.70      0.76
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SRCPARAM L0046224     0.0000001237      0.00      1.70      0.76
SRCPARAM L0046225     0.0000001237      0.00      1.70      0.76
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SRCPARAM L0046230     0.0000001237      0.00      1.70      0.76
SRCPARAM L0046231     0.0000001237      0.00      1.70      0.76
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SRCPARAM L0046233     0.0000001237      0.00      1.70      0.76
SRCPARAM L0046234     0.0000001237      0.00      1.70      0.76
SRCPARAM L0046235     0.0000001237      0.00      1.70      0.76
SRCPARAM L0046236     0.0000001237      0.00      1.70      0.76
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SRCPARAM L0046269     0.0000001237      0.00      1.70      0.76
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SRCPARAM L0046281     0.0000001237      0.00      1.70      0.76
SRCPARAM L0046282     0.0000001237      0.00      1.70      0.76
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SRCPARAM L0046285     0.0000001237      0.00      1.70      0.76
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   SRCPARAM STCK1         0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK2         0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK3         0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK4         0.000015     3.658   366.000  51.90000     0.100
** LINE VOLUME Source ID = SLINE3
   SRCPARAM L0046288     0.0000001077      0.00      1.70      0.76
   SRCPARAM L0046289     0.0000001077      0.00      1.70      0.76
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   SRCPARAM L0046294     0.0000001077      0.00      1.70      0.76
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   SRCPARAM L0046310     0.0000001077      0.00      1.70      0.76
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   SRCPARAM L0046312     0.0000001077      0.00      1.70      0.76
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   SRCPARAM L0046332     0.0000001077      0.00      1.70      0.76
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SRCPARAM L0046380     0.0000001077      0.00      1.70      0.76
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SRCPARAM L0046383     0.0000001077      0.00      1.70      0.76
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SRCPARAM L0046434     0.0000001077      0.00      1.70      0.76
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SRCPARAM L0046468     0.0000001077      0.00      1.70      0.76
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SRCPARAM L0046472     0.0000001077      0.00      1.70      0.76
SRCPARAM L0046473     0.0000001077      0.00      1.70      0.76
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SRCPARAM L0046477     0.0000001077      0.00      1.70      0.76
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SRCPARAM L0046480     0.0000001077      0.00      1.70      0.76
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SRCPARAM L0046634     0.0000001079      0.00      1.70      0.76
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SRCPARAM L0046712     0.0000001079      0.00      1.70      0.76
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SRCPARAM L0046714     0.0000001079      0.00      1.70      0.76
SRCPARAM L0046715     0.0000001079      0.00      1.70      0.76
SRCPARAM L0046716     0.0000001079      0.00      1.70      0.76
SRCPARAM L0046717     0.0000001079      0.00      1.70      0.76
SRCPARAM L0046718     0.0000001079      0.00      1.70      0.76
SRCPARAM L0046719     0.0000001079      0.00      1.70      0.76
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SRCPARAM L0046721     0.0000001079      0.00      1.70      0.76
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SRCPARAM L0046733     0.0000001079      0.00      1.70      0.76
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SRCPARAM L0047039     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047040     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047041     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047042     0.00000008531      0.00      1.70      0.76
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SRCPARAM L0047049     0.00000008531      0.00      1.70      0.76
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SRCPARAM L0047052     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047053     0.00000008531      0.00      1.70      0.76
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SRCPARAM L0047055     0.00000008531      0.00      1.70      0.76
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SRCPARAM L0047063     0.00000008531      0.00      1.70      0.76
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SRCPARAM L0047065     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047066     0.00000008531      0.00      1.70      0.76
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SRCPARAM L0047068     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047069     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047070     0.00000008531      0.00      1.70      0.76
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SRCPARAM L0047077     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047078     0.00000008531      0.00      1.70      0.76
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SRCPARAM L0047081     0.00000008531      0.00      1.70      0.76
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SRCPARAM L0047087     0.00000008531      0.00      1.70      0.76
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SRCPARAM L0047091     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047092     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047093     0.00000008531      0.00      1.70      0.76
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SRCPARAM L0047096     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047097     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047098     0.00000008531      0.00      1.70      0.76
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SRCPARAM L0047102     0.00000008531      0.00      1.70      0.76
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SRCPARAM L0047105     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047106     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047107     0.00000008531      0.00      1.70      0.76
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SRCPARAM L0047109     0.00000008531      0.00      1.70      0.76
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SRCPARAM L0047113     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047114     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047115     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047116     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047117     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047118     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047119     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047120     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047121     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047122     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047123     0.00000008531      0.00      1.70      0.76
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SRCPARAM L0047125     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047126     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047127     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047128     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047129     0.00000008531      0.00      1.70      0.76
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SRCPARAM L0047132     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047133     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047134     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047135     0.00000008531      0.00      1.70      0.76
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SRCPARAM L0047139     0.00000008531      0.00      1.70      0.76
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SRCPARAM L0047143     0.00000008531      0.00      1.70      0.76
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SRCPARAM L0047151     0.00000008531      0.00      1.70      0.76
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SRCPARAM L0047155     0.00000008531      0.00      1.70      0.76
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SRCPARAM L0047177     0.00000008531      0.00      1.70      0.76
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SRCPARAM L0047179     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047180     0.00000008531      0.00      1.70      0.76
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SRCPARAM L0047186     0.00000008531      0.00      1.70      0.76
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SRCPARAM L0047189     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047190     0.00000008531      0.00      1.70      0.76
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SRCPARAM L0047192     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047193     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047194     0.00000008531      0.00      1.70      0.76
SRCPARAM L0047195     0.00000008531      0.00      1.70      0.76
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   SRCPARAM L0047201     0.00000008531      0.00      1.70      0.76
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   SRCPARAM L0047207     0.00000008531      0.00      1.70      0.76
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   SRCPARAM L0047209     0.00000008531      0.00      1.70      0.76
   SRCPARAM L0047210     0.00000008531      0.00      1.70      0.76
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   SRCPARAM L0047213     0.00000008531      0.00      1.70      0.76
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   SRCPARAM L0047215     0.00000008531      0.00      1.70      0.76
   SRCPARAM L0047216     0.00000008531      0.00      1.70      0.76
   SRCPARAM L0047217     0.00000008531      0.00      1.70      0.76
   SRCPARAM L0047218     0.00000008531      0.00      1.70      0.76
   SRCPARAM L0047219     0.00000008531      0.00      1.70      0.76
   SRCPARAM L0047220     0.00000008531      0.00      1.70      0.76
   SRCPARAM L0047221     0.00000008531      0.00      1.70      0.76
   SRCPARAM L0047222     0.00000008531      0.00      1.70      0.76
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** LINE VOLUME Source ID = SLINE6
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   SRCPARAM L0047229     0.00000004832      0.00      1.70      0.76
   SRCPARAM L0047230     0.00000004832      0.00      1.70      0.76
   SRCPARAM L0047231     0.00000004832      0.00      1.70      0.76
   SRCPARAM L0047232     0.00000004832      0.00      1.70      0.76
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   SRCPARAM L0047237     0.00000004832      0.00      1.70      0.76
   SRCPARAM L0047238     0.00000004832      0.00      1.70      0.76
   SRCPARAM L0047239     0.00000004832      0.00      1.70      0.76
   SRCPARAM L0047240     0.00000004832      0.00      1.70      0.76
   SRCPARAM L0047241     0.00000004832      0.00      1.70      0.76
   SRCPARAM L0047242     0.00000004832      0.00      1.70      0.76
   SRCPARAM L0047243     0.00000004832      0.00      1.70      0.76
   SRCPARAM L0047244     0.00000004832      0.00      1.70      0.76
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SRCPARAM L0047248     0.00000004832      0.00      1.70      0.76
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SRCPARAM L0047266     0.00000004832      0.00      1.70      0.76
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SRCPARAM L0047273     0.00000004832      0.00      1.70      0.76
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SRCPARAM L0047275     0.00000004832      0.00      1.70      0.76
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SRCPARAM L0047291     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047292     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047293     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047294     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047295     0.00000004832      0.00      1.70      0.76
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SRCPARAM L0047298     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047299     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047300     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047301     0.00000004832      0.00      1.70      0.76
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SRCPARAM L0047303     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047304     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047305     0.00000004832      0.00      1.70      0.76
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SRCPARAM L0047308     0.00000004832      0.00      1.70      0.76
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SRCPARAM L0047310     0.00000004832      0.00      1.70      0.76
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SRCPARAM L0047612     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047613     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047614     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047615     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047616     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047617     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047618     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047619     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047620     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047621     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047622     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047623     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047624     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047625     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047626     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047627     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047628     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047629     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047630     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047631     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047632     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047633     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047634     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047635     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047636     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047637     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047638     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047639     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047640     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047641     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047642     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047643     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047644     0.00000004832      0.00      1.70      0.76
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SRCPARAM L0047646     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047647     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047648     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047649     0.00000004832      0.00      1.70      0.76
SRCPARAM L0047650     0.00000004832      0.00      1.70      0.76
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SRCPARAM L0047652     0.00000004832      0.00      1.70      0.76
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   SRCPARAM L0047662     0.00000004832      0.00      1.70      0.76
   SRCPARAM L0047663     0.00000004832      0.00      1.70      0.76
   SRCPARAM L0047664     0.00000004832      0.00      1.70      0.76
   SRCPARAM L0047665     0.00000004832      0.00      1.70      0.76
   SRCPARAM L0047666     0.00000004832      0.00      1.70      0.76
   SRCPARAM L0047667     0.00000004832      0.00      1.70      0.76
   SRCPARAM L0047668     0.00000004832      0.00      1.70      0.76
   SRCPARAM L0047669     0.00000004832      0.00      1.70      0.76
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** LINE VOLUME Source ID = SLINE7
   SRCPARAM L0047670     0.00000003836      0.00      1.70      0.76
   SRCPARAM L0047671     0.00000003836      0.00      1.70      0.76
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   SRCPARAM L0047673     0.00000003836      0.00      1.70      0.76
   SRCPARAM L0047674     0.00000003836      0.00      1.70      0.76
   SRCPARAM L0047675     0.00000003836      0.00      1.70      0.76
   SRCPARAM L0047676     0.00000003836      0.00      1.70      0.76
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   SRCPARAM L0047678     0.00000003836      0.00      1.70      0.76
   SRCPARAM L0047679     0.00000003836      0.00      1.70      0.76
   SRCPARAM L0047680     0.00000003836      0.00      1.70      0.76
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   SRCPARAM L0047682     0.00000003836      0.00      1.70      0.76
   SRCPARAM L0047683     0.00000003836      0.00      1.70      0.76
   SRCPARAM L0047684     0.00000003836      0.00      1.70      0.76
   SRCPARAM L0047685     0.00000003836      0.00      1.70      0.76
   SRCPARAM L0047686     0.00000003836      0.00      1.70      0.76
   SRCPARAM L0047687     0.00000003836      0.00      1.70      0.76
   SRCPARAM L0047688     0.00000003836      0.00      1.70      0.76
   SRCPARAM L0047689     0.00000003836      0.00      1.70      0.76
   SRCPARAM L0047690     0.00000003836      0.00      1.70      0.76
   SRCPARAM L0047691     0.00000003836      0.00      1.70      0.76
   SRCPARAM L0047692     0.00000003836      0.00      1.70      0.76
   SRCPARAM L0047693     0.00000003836      0.00      1.70      0.76
   SRCPARAM L0047694     0.00000003836      0.00      1.70      0.76
   SRCPARAM L0047695     0.00000003836      0.00      1.70      0.76
   SRCPARAM L0047696     0.00000003836      0.00      1.70      0.76
   SRCPARAM L0047697     0.00000003836      0.00      1.70      0.76
   SRCPARAM L0047698     0.00000003836      0.00      1.70      0.76
   SRCPARAM L0047699     0.00000003836      0.00      1.70      0.76
   SRCPARAM L0047700     0.00000003836      0.00      1.70      0.76
   SRCPARAM L0047701     0.00000003836      0.00      1.70      0.76
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SRCPARAM L0047702     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047703     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047704     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047705     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047706     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047707     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047708     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047709     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047710     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047711     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047712     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047713     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047714     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047715     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047716     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047717     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047718     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047719     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047720     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047721     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047722     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047723     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047724     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047725     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047726     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047727     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047728     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047729     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047730     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047731     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047732     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047733     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047734     0.00000003836      0.00      1.70      0.76
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SRCPARAM L0047740     0.00000003836      0.00      1.70      0.76
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SRCPARAM L0047744     0.00000003836      0.00      1.70      0.76
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SRCPARAM L0047746     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047747     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047748     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047749     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047750     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047751     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047752     0.00000003836      0.00      1.70      0.76
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SRCPARAM L0047813     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047814     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047815     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047816     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047817     0.00000003836      0.00      1.70      0.76
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SRCPARAM L0047819     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047820     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047821     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047822     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047823     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047824     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047825     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047826     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047827     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047828     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047829     0.00000003836      0.00      1.70      0.76
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SRCPARAM L0047831     0.00000003836      0.00      1.70      0.76
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SRCPARAM L0047834     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047835     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047836     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047837     0.00000003836      0.00      1.70      0.76
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SRCPARAM L0047842     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047843     0.00000003836      0.00      1.70      0.76
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SRCPARAM L0047845     0.00000003836      0.00      1.70      0.76
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SRCPARAM L0047849     0.00000003836      0.00      1.70      0.76
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SRCPARAM L0047851     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047852     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047853     0.00000003836      0.00      1.70      0.76
SRCPARAM L0047854     0.00000003836      0.00      1.70      0.76
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   SRCPARAM L0047863     0.00000003836      0.00      1.70      0.76
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   SRCPARAM L0047877     0.00000003836      0.00      1.70      0.76
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   SRCPARAM L0047879     0.00000003836      0.00      1.70      0.76
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   SRCPARAM STCK5         0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK6         0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK7         0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK8         0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK9         0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK10        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK11        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK12        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK13        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK14        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK15        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK16        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK18        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK19        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK20        0.000015     3.658   366.000  51.90000     0.100
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   SRCPARAM STCK21        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK22        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK23        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK24        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK25        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK26        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK27        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK28        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK29        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK30        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK31        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK32        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK33        0.000015     3.658   366.000  51.90000     0.100
   SRCPARAM STCK34        0.000015     3.658   366.000  51.90000     0.100
** LINE VOLUME Source ID = SLINE11
   SRCPARAM L0047890     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047891     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047892     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047893     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047894     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047895     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047896     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047897     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047898     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047899     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047900     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047901     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047902     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047903     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047904     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047905     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047906     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047907     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047908     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047909     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047910     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047911     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047912     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047913     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047914     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047915     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047916     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047917     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047918     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047919     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047920     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047921     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047922     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047923     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047924     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047925     0.00000007096      0.00      1.70      0.76
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SRCPARAM L0047926     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047927     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047928     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047929     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047930     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047931     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047932     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047933     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047934     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047935     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047936     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047937     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047938     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047939     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047940     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047941     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047942     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047943     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047944     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047945     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047946     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047947     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047948     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047949     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047950     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047951     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047952     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047953     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047954     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047955     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047956     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047957     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047958     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047959     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047960     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047961     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047962     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047963     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047964     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047965     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047966     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047967     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047968     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047969     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047970     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047971     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047972     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047973     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047974     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047975     0.00000007096      0.00      1.70      0.76
SRCPARAM L0047976     0.00000007096      0.00      1.70      0.76
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   SRCPARAM L0047977     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047978     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047979     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047980     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047981     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047982     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047983     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047984     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047985     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047986     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047987     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047988     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047989     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047990     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047991     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047992     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047993     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047994     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047995     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047996     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047997     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047998     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0047999     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0048000     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0048001     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0048002     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0048003     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0048004     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0048005     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0048006     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0048007     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0048008     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0048009     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0048010     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0048011     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0048012     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0048013     0.00000007096      0.00      1.70      0.76
   SRCPARAM L0048014     0.00000007096      0.00      1.70      0.76
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE12
   SRCPARAM L0048140     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048141     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048142     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048143     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048144     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048145     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048146     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048147     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048148     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048149     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048150     0.00000007082      0.00      1.70      0.76
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SRCPARAM L0048151     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048152     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048153     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048154     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048155     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048156     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048157     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048158     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048159     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048160     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048161     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048162     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048163     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048164     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048165     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048166     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048167     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048168     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048169     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048170     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048171     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048172     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048173     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048174     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048175     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048176     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048177     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048178     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048179     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048180     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048181     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048182     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048183     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048184     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048185     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048186     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048187     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048188     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048189     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048190     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048191     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048192     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048193     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048194     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048195     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048196     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048197     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048198     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048199     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048200     0.00000007082      0.00      1.70      0.76
SRCPARAM L0048201     0.00000007082      0.00      1.70      0.76
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   SRCPARAM L0048202     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048203     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048204     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048205     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048206     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048207     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048208     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048209     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048210     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048211     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048212     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048213     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048214     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048215     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048216     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048217     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048218     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048219     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048220     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048221     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048222     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048223     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048224     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048225     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048226     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048227     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048228     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048229     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048230     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048231     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048232     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048233     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048234     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048235     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048236     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048237     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048238     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048239     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048240     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048241     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048242     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048243     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048244     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048245     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048246     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048247     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048248     0.00000007082      0.00      1.70      0.76
   SRCPARAM L0048249     0.00000007082      0.00      1.70      0.76
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE13
   SRCPARAM L0048250     0.0000000707      0.00      1.70      0.76
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SRCPARAM L0048251     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048252     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048253     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048254     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048255     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048256     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048257     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048258     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048259     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048260     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048261     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048262     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048263     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048264     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048265     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048266     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048267     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048268     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048269     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048270     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048271     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048272     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048273     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048274     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048275     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048276     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048277     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048278     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048279     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048280     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048281     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048282     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048283     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048284     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048285     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048286     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048287     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048288     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048289     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048290     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048291     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048292     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048293     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048294     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048295     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048296     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048297     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048298     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048299     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048300     0.0000000707      0.00      1.70      0.76
SRCPARAM L0048301     0.0000000707      0.00      1.70      0.76
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   SRCPARAM L0048302     0.0000000707      0.00      1.70      0.76
   SRCPARAM L0048303     0.0000000707      0.00      1.70      0.76
   SRCPARAM L0048304     0.0000000707      0.00      1.70      0.76
   SRCPARAM L0048305     0.0000000707      0.00      1.70      0.76
   SRCPARAM L0048306     0.0000000707      0.00      1.70      0.76
   SRCPARAM L0048307     0.0000000707      0.00      1.70      0.76
   SRCPARAM L0048308     0.0000000707      0.00      1.70      0.76
   SRCPARAM L0048309     0.0000000707      0.00      1.70      0.76
   SRCPARAM L0048310     0.0000000707      0.00      1.70      0.76
   SRCPARAM L0048311     0.0000000707      0.00      1.70      0.76
   SRCPARAM L0048312     0.0000000707      0.00      1.70      0.76
   SRCPARAM L0048313     0.0000000707      0.00      1.70      0.76
   SRCPARAM L0048314     0.0000000707      0.00      1.70      0.76
   SRCPARAM L0048315     0.0000000707      0.00      1.70      0.76
   SRCPARAM L0048316     0.0000000707      0.00      1.70      0.76
   SRCPARAM L0048317     0.0000000707      0.00      1.70      0.76
   SRCPARAM L0048318     0.0000000707      0.00      1.70      0.76
   SRCPARAM L0048319     0.0000000707      0.00      1.70      0.76
   SRCPARAM L0048320     0.0000000707      0.00      1.70      0.76
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE14
   SRCPARAM L0048321     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048322     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048323     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048324     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048325     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048326     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048327     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048328     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048329     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048330     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048331     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048332     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048333     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048334     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048335     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048336     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048337     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048338     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048339     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048340     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048341     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048342     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048343     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048344     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048345     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048346     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048347     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048348     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048349     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048350     0.00000003844      0.00      1.70      0.76
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SRCPARAM L0048351     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048352     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048353     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048354     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048355     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048356     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048357     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048358     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048359     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048360     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048361     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048362     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048363     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048364     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048365     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048366     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048367     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048368     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048369     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048370     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048371     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048372     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048373     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048374     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048375     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048376     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048377     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048378     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048379     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048380     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048381     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048382     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048383     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048384     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048385     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048386     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048387     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048388     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048389     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048390     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048391     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048392     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048393     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048394     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048395     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048396     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048397     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048398     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048399     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048400     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048401     0.00000003844      0.00      1.70      0.76
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SRCPARAM L0048402     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048403     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048404     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048405     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048406     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048407     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048408     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048409     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048410     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048411     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048412     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048413     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048414     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048415     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048416     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048417     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048418     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048419     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048420     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048421     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048422     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048423     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048424     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048425     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048426     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048427     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048428     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048429     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048430     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048431     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048432     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048433     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048434     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048435     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048436     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048437     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048438     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048439     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048440     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048441     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048442     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048443     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048444     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048445     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048446     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048447     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048448     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048449     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048450     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048451     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048452     0.00000003844      0.00      1.70      0.76
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SRCPARAM L0048453     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048454     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048455     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048456     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048457     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048458     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048459     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048460     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048461     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048462     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048463     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048464     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048465     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048466     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048467     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048468     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048469     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048470     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048471     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048472     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048473     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048474     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048475     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048476     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048477     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048478     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048479     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048480     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048481     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048482     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048483     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048484     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048485     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048486     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048487     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048488     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048489     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048490     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048491     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048492     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048493     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048494     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048495     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048496     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048497     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048498     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048499     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048500     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048501     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048502     0.00000003844      0.00      1.70      0.76
SRCPARAM L0048503     0.00000003844      0.00      1.70      0.76
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   SRCPARAM L0048504     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048505     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048506     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048507     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048508     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048509     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048510     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048511     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048512     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048513     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048514     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048515     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048516     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048517     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048518     0.00000003844      0.00      1.70      0.76
   SRCPARAM L0048519     0.00000003844      0.00      1.70      0.76
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE15
   SRCPARAM L0048520     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048521     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048522     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048523     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048524     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048525     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048526     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048527     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048528     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048529     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048530     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048531     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048532     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048533     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048534     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048535     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048536     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048537     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048538     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048539     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048540     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048541     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048542     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048543     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048544     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048545     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048546     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048547     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048548     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048549     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048550     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048551     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0048552     0.00000001853      0.00      1.70      0.76
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SRCPARAM L0048553     0.00000001853      0.00      1.70      0.76
SRCPARAM L0048554     0.00000001853      0.00      1.70      0.76
SRCPARAM L0048555     0.00000001853      0.00      1.70      0.76
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SRCPARAM L0049158     0.00000001853      0.00      1.70      0.76
SRCPARAM L0049159     0.00000001853      0.00      1.70      0.76
SRCPARAM L0049160     0.00000001853      0.00      1.70      0.76
SRCPARAM L0049161     0.00000001853      0.00      1.70      0.76
SRCPARAM L0049162     0.00000001853      0.00      1.70      0.76
SRCPARAM L0049163     0.00000001853      0.00      1.70      0.76
SRCPARAM L0049164     0.00000001853      0.00      1.70      0.76
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   SRCPARAM L0049165     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0049166     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0049167     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0049168     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0049169     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0049170     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0049171     0.00000001853      0.00      1.70      0.76
   SRCPARAM L0049172     0.00000001853      0.00      1.70      0.76
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** LINE VOLUME Source ID = SLINE16
   SRCPARAM L0049173     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049174     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049175     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049176     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049177     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049178     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049179     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049180     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049181     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049182     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049183     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049184     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049185     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049186     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049187     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049188     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049189     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049190     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049191     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049192     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049193     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049194     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049195     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049196     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049197     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049198     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049199     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049200     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049201     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049202     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049203     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049204     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049205     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049206     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049207     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049208     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049209     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049210     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049211     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049212     0.00000001976      0.00      1.70      0.76
   SRCPARAM L0049213     0.00000001976      0.00      1.70      0.76
```

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SRCPARAM L0049214     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049215     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049216     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049217     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049218     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049219     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049220     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049221     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049222     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049223     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049224     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049225     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049226     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049227     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049228     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049229     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049230     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049231     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049232     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049233     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049234     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049235     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049236     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049237     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049238     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049239     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049240     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049241     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049242     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049243     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049244     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049245     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049246     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049247     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049248     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049249     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049250     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049251     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049252     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049253     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049254     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049255     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049256     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049257     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049258     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049259     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049260     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049261     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049262     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049263     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049264     0.00000001976      0.00      1.70      0.76
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SRCPARAM L0049265     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049266     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049267     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049268     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049269     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049270     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049271     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049272     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049273     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049274     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049275     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049276     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049277     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049278     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049279     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049280     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049281     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049282     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049283     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049284     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049285     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049286     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049287     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049288     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049289     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049290     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049291     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049292     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049293     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049294     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049295     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049296     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049297     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049298     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049299     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049300     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049301     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049302     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049303     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049304     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049305     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049306     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049307     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049308     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049309     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049310     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049311     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049312     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049313     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049314     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049315     0.00000001976      0.00      1.70      0.76
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SRCPARAM L0049316     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049317     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049318     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049319     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049320     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049321     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049322     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049323     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049324     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049325     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049326     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049327     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049328     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049329     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049330     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049331     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049332     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049333     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049334     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049335     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049336     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049337     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049338     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049339     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049340     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049341     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049342     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049343     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049344     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049345     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049346     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049347     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049348     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049349     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049350     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049351     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049352     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049353     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049354     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049355     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049356     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049357     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049358     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049359     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049360     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049361     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049362     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049363     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049364     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049365     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049366     0.00000001976      0.00      1.70      0.76
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SRCPARAM L0049367     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049368     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049369     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049370     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049371     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049372     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049373     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049374     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049375     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049376     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049377     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049378     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049379     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049380     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049381     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049382     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049383     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049384     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049385     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049386     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049387     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049388     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049389     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049390     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049391     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049392     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049393     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049394     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049395     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049396     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049397     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049398     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049399     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049400     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049401     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049402     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049403     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049404     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049405     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049406     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049407     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049408     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049409     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049410     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049411     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049412     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049413     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049414     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049415     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049416     0.00000001976      0.00      1.70      0.76
SRCPARAM L0049417     0.00000001976      0.00      1.70      0.76
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** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE17
   SRCPARAM L0049418     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0049419     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0049420     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0049421     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0049422     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0049423     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0049424     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0049425     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0049426     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0049427     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0049428     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0049429     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0049430     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0049431     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0049432     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0049433     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0049434     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0049435     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0049436     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0049437     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0049438     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0049439     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0049440     0.00000003712      0.00      1.70      0.76
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SRCPARAM L0050019     0.00000003712      0.00      1.70      0.76
SRCPARAM L0050020     0.00000003712      0.00      1.70      0.76
SRCPARAM L0050021     0.00000003712      0.00      1.70      0.76
SRCPARAM L0050022     0.00000003712      0.00      1.70      0.76
SRCPARAM L0050023     0.00000003712      0.00      1.70      0.76
SRCPARAM L0050024     0.00000003712      0.00      1.70      0.76
SRCPARAM L0050025     0.00000003712      0.00      1.70      0.76
SRCPARAM L0050026     0.00000003712      0.00      1.70      0.76
SRCPARAM L0050027     0.00000003712      0.00      1.70      0.76
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   SRCPARAM L0050028     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050029     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050030     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050031     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050032     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050033     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050034     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050035     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050036     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050037     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050038     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050039     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050040     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050041     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050042     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050043     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050044     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050045     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050046     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050047     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050048     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050049     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050050     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050051     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050052     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050053     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050054     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050055     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050056     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050057     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050058     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050059     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050060     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050061     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050062     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050063     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050064     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050065     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050066     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050067     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050068     0.00000003712      0.00      1.70      0.76
   SRCPARAM L0050069     0.00000003712      0.00      1.70      0.76
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** Building Downwash **
   BUILDHGT STCK1            9.14     9.14     9.14     9.14     9.14     9.14
   BUILDHGT STCK1            9.14     9.14     9.14     9.14     9.14     9.14
   BUILDHGT STCK1            9.14     9.14     9.14     9.14     9.14     9.14
   BUILDHGT STCK1            9.14     9.14     9.14     9.14     9.14     9.14
   BUILDHGT STCK1            9.14     9.14     9.14     9.14     9.14     9.14
   BUILDHGT STCK1            9.14     9.14     9.14     9.14     9.14     9.14
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BUILDHGT STCK2          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK2          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK2          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK2          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK2          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK2          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK3          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK3          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK3          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK3          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK3          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK3          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK4          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK4          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK4          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK4          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK4          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK4          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK5          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK5          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK5          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK5          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK5          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK5          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK6          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK6          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK6          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK6          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK6          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK6          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK7          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK7          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK7          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK7          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK7          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK7          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK8          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK8          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK8          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK8          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK8          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK8          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK9          9.14     9.14     9.14     9.14     9.14     9.14
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BUILDHGT STCK9          9.14    9.14    0.00    9.14    9.14    9.14
BUILDHGT STCK9          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK9          9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK9          9.14    9.14    0.00    9.14    9.14    9.14
BUILDHGT STCK9          9.14    9.14    9.14    9.14    9.14    9.14

BUILDHGT STCK10         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK10         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK10         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK10         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK10         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK10         9.14    9.14    9.14    9.14    9.14    9.14

BUILDHGT STCK11         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK11         9.14    9.14    0.00    9.14    9.14    9.14
BUILDHGT STCK11         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK11         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK11         9.14    9.14    0.00    9.14    9.14    9.14
BUILDHGT STCK11         9.14    9.14    9.14    9.14    9.14    9.14

BUILDHGT STCK12         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK12         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK12         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK12         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK12         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK12         9.14    9.14    9.14    9.14    9.14    9.14

BUILDHGT STCK13         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK13         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK13         9.14    9.14    9.14    9.14    9.14    0.00
BUILDHGT STCK13         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK13         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK13         9.14    9.14    9.14    9.14    9.14    0.00

BUILDHGT STCK14         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK14         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK14         9.14    9.14    9.14    9.14    9.14    0.00
BUILDHGT STCK14         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK14         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK14         9.14    9.14    9.14    9.14    9.14    0.00

BUILDHGT STCK15         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK15         9.14    9.14    0.00    9.14    9.14    9.14
BUILDHGT STCK15         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK15         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK15         9.14    9.14    0.00    9.14    9.14    9.14
BUILDHGT STCK15         9.14    9.14    9.14    9.14    9.14    9.14

BUILDHGT STCK16         9.14    9.14    9.14    9.14    9.14    9.14
BUILDHGT STCK16         9.14    9.14    0.00    9.14    9.14    9.14
BUILDHGT STCK16         9.14    9.14    9.14    9.14    9.14    9.14
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BUILDHGT STCK16          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK16          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK16          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK18          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK18          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK18          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK18          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK18          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK18          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK19          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK19          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK19          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK19          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK19          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK19          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK20          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK20          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK20          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK20          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK20          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK20          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK21          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK21          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK21          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK21          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK21          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK21          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK22          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK22          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK22          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK22          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK22          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK22          9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK23          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK23          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK23          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK23          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK23          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK23          9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK24          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK24          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK24          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK24          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK24          9.14     9.14     9.14     9.14     9.14     9.14
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BUILDHGT STCK24          9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK25          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK25          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK25          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK25          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK25          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK25          9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK26          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK26          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK26          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK26          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK26          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK26          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK27          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK27          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK27          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK27          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK27          9.14     9.14     0.00     9.14     9.14     9.14
BUILDHGT STCK27          9.14     9.14     9.14     9.14     9.14     9.14

BUILDHGT STCK28          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK28          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK28          9.14     9.14     9.14     9.14     9.14     0.00
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BUILDHGT STCK28          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK28          9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK29          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK29          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK29          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK29          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK29          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK29          9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK30          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK30          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK30          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK30          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK30          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK30          9.14     9.14     9.14     9.14     9.14     0.00

BUILDHGT STCK31          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK31          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK31          9.14     9.14     9.14     9.14     9.14     0.00
BUILDHGT STCK31          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK31          9.14     9.14     9.14     9.14     9.14     9.14
BUILDHGT STCK31          9.14     9.14     9.14     9.14     9.14     0.00
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BUILDHGT STCK32	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK32	9.14	9.14	0.00	9.14	9.14	9.14
BUILDHGT STCK32	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK32	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK32	9.14	9.14	0.00	9.14	9.14	9.14
BUILDHGT STCK32	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK33	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK33	9.14	9.14	0.00	9.14	9.14	9.14
BUILDHGT STCK33	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK33	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK33	9.14	9.14	0.00	9.14	9.14	9.14
BUILDHGT STCK33	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK34	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK34	9.14	9.14	0.00	9.14	9.14	9.14
BUILDHGT STCK34	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK34	9.14	9.14	9.14	9.14	9.14	9.14
BUILDHGT STCK34	9.14	9.14	0.00	9.14	9.14	9.14
BUILDHGT STCK34	9.14	9.14	9.14	9.14	9.14	9.14
BUILDWID STCK1	142.74	146.83	146.45	141.63	132.50	119.35
BUILDWID STCK1	102.57	82.67	61.18	83.50	103.27	119.91
BUILDWID STCK1	132.91	141.87	146.52	146.71	142.45	134.32
BUILDWID STCK1	142.74	146.83	146.45	141.63	132.50	119.35
BUILDWID STCK1	102.57	82.67	61.18	83.50	103.27	119.91
BUILDWID STCK1	132.91	141.87	146.52	146.71	142.45	134.32
BUILDWID STCK2	45.98	55.15	62.64	68.23	71.75	73.08
BUILDWID STCK2	72.20	69.12	63.94	67.33	70.98	72.47
BUILDWID STCK2	71.76	68.87	63.88	56.96	48.30	38.18
BUILDWID STCK2	45.98	55.15	62.64	68.23	71.75	73.08
BUILDWID STCK2	72.20	69.12	63.94	67.33	70.98	72.47
BUILDWID STCK2	71.76	68.87	63.88	56.96	48.30	38.18
BUILDWID STCK3	74.66	78.71	80.36	150.50	142.52	130.20
BUILDWID STCK3	113.93	53.58	0.00	54.00	63.57	71.20
BUILDWID STCK3	76.67	151.60	155.07	153.82	147.90	137.49
BUILDWID STCK3	146.75	152.65	153.92	150.50	142.52	130.20
BUILDWID STCK3	113.93	53.58	0.00	54.00	63.57	71.20
BUILDWID STCK3	76.67	151.60	155.07	153.82	147.90	68.34
BUILDWID STCK4	146.75	152.65	153.92	83.64	80.18	74.28
BUILDWID STCK4	66.12	55.96	0.00	55.10	114.68	131.10
BUILDWID STCK4	143.53	151.60	155.07	153.82	147.90	137.49
BUILDWID STCK4	146.75	152.65	153.92	83.64	80.18	74.28
BUILDWID STCK4	66.12	55.96	0.00	55.10	114.68	131.10
BUILDWID STCK4	143.53	151.60	84.13	82.62	78.60	72.19
BUILDWID STCK5	142.74	146.83	146.45	141.63	132.50	119.35
BUILDWID STCK5	102.57	82.67	61.18	83.50	103.27	119.91

BUILDWID STCK5	132.91	141.87	146.52	146.71	142.45	134.32
BUILDWID STCK5	142.74	146.83	146.45	141.63	132.50	119.35
BUILDWID STCK5	102.57	82.67	61.18	83.50	103.27	119.91
BUILDWID STCK5	132.91	141.87	146.52	146.71	142.45	134.32
BUILDWID STCK6	145.11	149.43	149.22	144.47	135.34	122.09
BUILDWID STCK6	105.13	84.97	63.86	85.66	105.40	121.94
BUILDWID STCK6	134.77	143.51	147.89	147.77	143.17	136.37
BUILDWID STCK6	145.11	149.43	149.22	144.47	135.34	122.09
BUILDWID STCK6	105.13	84.97	63.86	85.66	105.40	121.94
BUILDWID STCK6	134.77	143.51	147.89	147.77	143.17	136.37
BUILDWID STCK7	145.11	149.43	149.22	144.47	135.34	122.09
BUILDWID STCK7	105.13	84.97	63.86	85.66	105.40	121.94
BUILDWID STCK7	134.77	143.51	147.89	147.77	143.17	136.37
BUILDWID STCK7	145.11	149.43	149.22	144.47	135.34	122.09
BUILDWID STCK7	105.13	84.97	63.86	85.66	105.40	121.94
BUILDWID STCK7	134.77	143.51	147.89	147.77	143.17	136.37
BUILDWID STCK8	44.94	53.93	61.28	66.77	70.24	71.56
BUILDWID STCK8	70.72	67.72	62.91	67.96	70.94	71.77
BUILDWID STCK8	70.42	66.93	61.40	54.01	44.98	34.58
BUILDWID STCK8	44.94	53.93	61.28	66.77	70.24	71.56
BUILDWID STCK8	70.72	67.72	62.91	67.96	70.94	71.77
BUILDWID STCK8	70.42	66.93	61.40	54.01	44.98	34.58
BUILDWID STCK9	145.39	149.74	149.55	144.82	135.68	122.42
BUILDWID STCK9	105.44	85.26	0.00	85.74	105.73	122.50
BUILDWID STCK9	135.55	144.48	149.03	149.04	144.53	136.61
BUILDWID STCK9	145.39	149.74	149.55	144.82	135.68	122.42
BUILDWID STCK9	105.44	85.26	0.00	85.74	105.73	122.50
BUILDWID STCK9	135.55	144.48	149.03	149.04	144.53	136.61
BUILDWID STCK10	145.39	149.74	149.55	144.82	135.68	122.42
BUILDWID STCK10	105.44	85.26	63.49	85.74	105.73	122.50
BUILDWID STCK10	135.55	144.48	149.03	149.04	144.53	136.61
BUILDWID STCK10	145.39	149.74	149.55	144.82	135.68	122.42
BUILDWID STCK10	105.44	85.26	63.49	85.74	105.73	122.50
BUILDWID STCK10	135.55	144.48	149.03	149.04	144.53	136.61
BUILDWID STCK11	147.84	151.91	151.37	146.23	136.64	122.90
BUILDWID STCK11	105.43	84.75	0.00	86.07	107.04	124.75
BUILDWID STCK11	138.68	148.39	153.59	154.12	149.98	141.27
BUILDWID STCK11	147.84	151.91	151.37	146.23	136.64	122.90
BUILDWID STCK11	105.43	84.75	0.00	86.07	107.04	124.75
BUILDWID STCK11	138.68	148.39	153.59	154.12	149.98	141.27
BUILDWID STCK12	147.84	151.91	151.37	146.23	136.64	122.90
BUILDWID STCK12	105.43	84.75	63.16	86.07	107.04	124.75
BUILDWID STCK12	138.68	148.39	153.59	154.12	149.98	141.27
BUILDWID STCK12	147.84	151.91	151.37	146.23	136.64	122.90

BUILDWID STCK12	105.43	84.75	63.16	86.07	107.04	124.75
BUILDWID STCK12	138.68	148.39	153.59	154.12	149.98	141.27
BUILDWID STCK13	86.26	103.64	117.88	128.53	135.28	137.92
BUILDWID STCK13	136.37	130.68	121.93	131.22	136.85	138.32
BUILDWID STCK13	135.59	128.74	117.97	103.62	86.12	0.00
BUILDWID STCK13	86.26	103.64	117.88	128.53	135.28	137.92
BUILDWID STCK13	136.37	130.68	121.93	131.22	136.85	138.32
BUILDWID STCK13	135.59	128.74	117.97	103.62	86.12	0.00
BUILDWID STCK14	86.26	103.64	117.88	128.53	135.28	137.92
BUILDWID STCK14	136.37	130.68	121.93	131.22	136.85	138.32
BUILDWID STCK14	135.59	128.74	117.97	103.62	86.12	0.00
BUILDWID STCK14	86.26	103.64	117.88	128.53	135.28	137.92
BUILDWID STCK14	136.37	130.68	121.93	131.22	136.85	138.32
BUILDWID STCK14	135.59	128.74	117.97	103.62	86.12	0.00
BUILDWID STCK15	144.26	148.49	148.22	143.44	134.30	121.08
BUILDWID STCK15	104.18	84.12	0.00	83.70	104.02	121.17
BUILDWID STCK15	134.65	144.03	149.04	149.52	145.45	136.97
BUILDWID STCK15	144.26	148.49	148.22	143.44	134.30	121.08
BUILDWID STCK15	104.18	84.12	0.00	83.70	104.02	121.17
BUILDWID STCK15	134.65	144.03	149.04	149.52	145.45	136.97
BUILDWID STCK16	144.26	148.49	148.22	143.44	134.30	121.08
BUILDWID STCK16	104.18	84.12	0.00	83.70	104.02	121.17
BUILDWID STCK16	134.65	144.03	149.04	149.52	145.45	136.97
BUILDWID STCK16	144.26	148.49	148.22	143.44	134.30	121.08
BUILDWID STCK16	104.18	84.12	0.00	83.70	104.02	121.17
BUILDWID STCK16	134.65	144.03	149.04	149.52	145.45	136.97
BUILDWID STCK18	145.39	149.99	150.02	145.50	136.56	123.47
BUILDWID STCK18	106.63	86.54	0.00	85.37	105.38	122.19
BUILDWID STCK18	135.29	144.27	148.87	148.95	144.50	136.38
BUILDWID STCK18	145.39	149.99	150.02	145.50	136.56	123.47
BUILDWID STCK18	106.63	86.54	0.00	85.37	105.38	122.19
BUILDWID STCK18	135.29	144.27	148.87	148.95	144.50	136.38
BUILDWID STCK19	145.39	149.99	150.02	145.50	136.56	123.47
BUILDWID STCK19	106.63	86.54	0.00	85.37	105.38	122.19
BUILDWID STCK19	135.29	144.27	148.87	148.95	144.50	136.38
BUILDWID STCK19	145.39	149.99	150.02	145.50	136.56	123.47
BUILDWID STCK19	106.63	86.54	0.00	85.37	105.38	122.19
BUILDWID STCK19	135.29	144.27	148.87	148.95	144.50	136.38
BUILDWID STCK20	147.03	151.26	150.89	145.94	136.56	123.02
BUILDWID STCK20	105.75	85.27	0.00	85.37	105.97	123.35
BUILDWID STCK20	136.98	146.45	151.47	151.88	147.69	139.00
BUILDWID STCK20	147.03	151.26	150.89	145.94	136.56	123.02
BUILDWID STCK20	105.75	85.27	0.00	85.37	105.97	123.35
BUILDWID STCK20	136.98	146.45	151.47	151.88	147.69	139.00

BUILDWID STCK21	147.03	151.26	150.89	145.94	136.56	123.02
BUILDWID STCK21	105.75	85.27	0.00	85.37	105.97	123.35
BUILDWID STCK21	136.98	146.45	151.47	151.88	147.69	139.00
BUILDWID STCK21	147.03	151.26	150.89	145.94	136.56	123.02
BUILDWID STCK21	105.75	85.27	0.00	85.37	105.97	123.35
BUILDWID STCK21	136.98	146.45	151.47	151.88	147.69	139.00
BUILDWID STCK22	49.74	58.98	66.42	71.84	75.08	76.04
BUILDWID STCK22	74.69	71.07	65.57	70.27	73.68	74.85
BUILDWID STCK22	73.75	70.40	64.92	57.46	48.26	0.00
BUILDWID STCK22	49.75	58.98	66.42	71.84	75.08	76.04
BUILDWID STCK22	74.69	71.07	65.57	70.27	73.68	74.85
BUILDWID STCK22	73.75	70.40	64.92	57.46	48.26	0.00
BUILDWID STCK23	44.63	54.01	61.75	145.94	136.56	123.02
BUILDWID STCK23	105.75	85.27	63.18	85.37	105.97	123.35
BUILDWID STCK23	136.98	146.45	61.28	53.42	43.94	0.00
BUILDWID STCK23	44.63	54.01	61.75	145.94	136.56	123.02
BUILDWID STCK23	105.75	69.70	65.17	69.93	105.97	123.35
BUILDWID STCK23	136.98	146.45	61.28	53.42	43.94	0.00
BUILDWID STCK24	92.18	111.73	127.89	140.17	148.18	151.69
BUILDWID STCK24	150.60	144.93	135.13	143.68	148.71	149.23
BUILDWID STCK24	145.21	136.78	124.19	107.83	88.20	0.00
BUILDWID STCK24	92.18	111.73	127.89	140.17	148.18	151.69
BUILDWID STCK24	150.60	144.93	135.13	143.68	148.71	149.23
BUILDWID STCK24	145.21	136.78	124.19	107.83	88.20	0.00
BUILDWID STCK25	92.18	111.73	127.89	140.17	148.18	151.69
BUILDWID STCK25	150.60	144.93	135.13	143.68	148.71	149.23
BUILDWID STCK25	145.21	136.78	124.19	107.83	88.20	0.00
BUILDWID STCK25	92.18	111.73	127.89	140.17	148.18	151.69
BUILDWID STCK25	150.60	144.93	135.13	143.68	148.71	149.23
BUILDWID STCK25	145.21	136.78	124.19	107.83	88.20	0.00
BUILDWID STCK26	146.57	152.99	154.77	151.84	144.30	132.37
BUILDWID STCK26	116.43	96.94	0.00	97.88	117.43	133.41
BUILDWID STCK26	145.34	152.85	155.72	153.86	147.32	136.33
BUILDWID STCK26	146.57	152.99	154.77	151.84	144.30	132.37
BUILDWID STCK26	116.43	96.94	0.00	97.88	117.43	133.41
BUILDWID STCK26	145.34	152.85	155.72	153.86	147.32	136.33
BUILDWID STCK27	146.57	152.99	154.77	151.84	144.30	132.37
BUILDWID STCK27	116.43	96.94	0.00	97.88	117.43	133.41
BUILDWID STCK27	145.34	152.85	155.72	153.86	147.32	136.33
BUILDWID STCK27	146.57	152.99	154.77	151.84	144.30	132.37
BUILDWID STCK27	116.43	96.94	0.00	97.88	117.43	133.41
BUILDWID STCK27	145.34	152.85	155.72	153.86	147.32	136.33
BUILDWID STCK28	49.33	60.63	70.09	151.84	144.30	132.37

BUILDWID STCK28	116.43	96.94	75.35	97.88	117.43	133.41
BUILDWID STCK28	145.34	152.85	68.46	58.77	47.29	0.00
BUILDWID STCK28	49.33	60.63	70.09	151.84	144.30	132.37
BUILDWID STCK28	116.43	82.08	77.39	82.18	117.43	133.41
BUILDWID STCK28	145.34	152.85	68.46	58.77	47.29	0.00
BUILDWID STCK29	93.45	115.86	134.74	149.54	159.79	165.18
BUILDWID STCK29	165.56	160.90	77.39	82.18	84.48	84.21
BUILDWID STCK29	81.38	76.07	68.46	113.20	90.89	0.00
BUILDWID STCK29	93.45	115.86	134.74	149.54	159.79	165.18
BUILDWID STCK29	165.56	160.90	151.36	159.31	163.61	162.95
BUILDWID STCK29	157.33	146.93	132.07	113.20	90.89	0.00
BUILDWID STCK30	93.45	115.86	134.74	149.54	159.79	165.18
BUILDWID STCK30	165.56	160.90	151.36	159.31	163.61	162.95
BUILDWID STCK30	157.33	146.93	132.07	113.20	90.89	0.00
BUILDWID STCK30	93.45	115.86	134.74	149.54	159.79	165.18
BUILDWID STCK30	165.56	160.90	151.36	159.31	163.61	162.95
BUILDWID STCK30	157.33	146.93	132.07	113.20	90.89	0.00
BUILDWID STCK31	49.17	60.63	153.92	150.50	142.52	130.20
BUILDWID STCK31	113.93	94.20	72.40	94.78	114.68	131.10
BUILDWID STCK31	143.53	151.60	68.30	58.65	47.21	0.00
BUILDWID STCK31	49.17	60.63	153.92	150.50	142.52	130.20
BUILDWID STCK31	113.93	82.86	77.75	81.92	114.68	131.10
BUILDWID STCK31	143.53	151.60	68.30	58.65	47.21	0.00
BUILDWID STCK32	146.75	152.65	153.92	150.50	142.52	130.20
BUILDWID STCK32	113.93	94.20	0.00	94.78	114.68	131.10
BUILDWID STCK32	143.53	151.60	155.07	153.82	147.90	137.49
BUILDWID STCK32	146.75	152.65	153.92	150.50	142.52	130.20
BUILDWID STCK32	113.93	94.20	0.00	94.78	114.68	131.10
BUILDWID STCK32	143.53	151.60	155.07	153.82	147.90	137.49
BUILDWID STCK33	146.75	152.65	153.92	150.50	142.52	130.20
BUILDWID STCK33	113.93	94.20	0.00	94.78	114.68	131.10
BUILDWID STCK33	143.53	151.60	155.07	153.82	147.90	137.49
BUILDWID STCK33	146.75	152.65	153.92	150.50	142.52	130.20
BUILDWID STCK33	113.93	94.20	0.00	94.78	114.68	131.10
BUILDWID STCK33	143.53	151.60	155.07	153.82	147.90	137.49
BUILDWID STCK34	47.74	53.41	57.45	83.64	80.18	74.28
BUILDWID STCK34	66.12	55.96	0.00	51.10	55.69	58.59
BUILDWID STCK34	59.71	59.02	68.30	58.65	47.21	36.22
BUILDWID STCK34	49.17	60.63	70.24	59.74	60.22	58.87
BUILDWID STCK34	55.73	50.90	0.00	51.10	55.69	58.59
BUILDWID STCK34	59.71	59.02	56.54	52.33	46.54	40.63
BUILDLEN STCK1	83.50	103.27	119.91	132.91	141.87	146.52
BUILDLEN STCK1	146.71	142.45	134.32	142.74	146.83	146.45
BUILDLEN STCK1	141.63	132.50	119.35	102.57	82.67	61.18

BUILDLEN STCK1	83.50	103.27	119.91	132.91	141.87	146.52
BUILDLEN STCK1	146.71	142.45	134.32	142.74	146.83	146.45
BUILDLEN STCK1	141.63	132.50	119.35	102.57	82.67	61.18
BUILDLEN STCK2	67.33	70.98	72.47	71.76	68.87	63.88
BUILDLEN STCK2	56.96	48.30	38.18	45.98	55.15	62.64
BUILDLEN STCK2	68.23	71.75	73.08	72.20	69.12	63.94
BUILDLEN STCK2	67.33	70.98	72.47	71.76	68.87	63.88
BUILDLEN STCK2	56.96	48.30	38.18	45.98	55.15	62.64
BUILDLEN STCK2	68.23	71.75	73.08	72.20	69.12	63.94
BUILDLEN STCK3	54.00	63.57	71.20	143.53	151.60	155.07
BUILDLEN STCK3	153.82	74.68	0.00	74.66	78.71	80.36
BUILDLEN STCK3	79.58	142.52	130.20	113.93	94.20	72.40
BUILDLEN STCK3	94.78	114.68	131.10	143.53	151.60	155.07
BUILDLEN STCK3	153.82	74.68	0.00	74.66	78.71	80.36
BUILDLEN STCK3	79.58	142.52	130.20	113.93	94.20	42.79
BUILDLEN STCK4	94.78	114.68	131.10	79.51	83.08	84.13
BUILDLEN STCK4	82.62	78.60	0.00	78.75	152.65	153.92
BUILDLEN STCK4	150.50	142.52	130.20	113.93	94.20	72.40
BUILDLEN STCK4	94.78	114.68	131.10	79.51	83.08	84.13
BUILDLEN STCK4	82.62	78.60	0.00	78.75	152.65	153.92
BUILDLEN STCK4	150.50	142.52	74.28	66.12	55.96	44.09
BUILDLEN STCK5	83.50	103.27	119.91	132.91	141.87	146.52
BUILDLEN STCK5	146.71	142.45	134.32	142.74	146.83	146.45
BUILDLEN STCK5	141.63	132.50	119.35	102.57	82.67	61.18
BUILDLEN STCK5	83.50	103.27	119.91	132.91	141.87	146.52
BUILDLEN STCK5	146.71	142.45	134.32	142.74	146.83	146.45
BUILDLEN STCK5	141.63	132.50	119.35	102.57	82.67	61.18
BUILDLEN STCK6	85.66	105.40	121.94	134.77	143.51	147.89
BUILDLEN STCK6	147.77	143.17	136.37	145.11	149.43	149.22
BUILDLEN STCK6	144.47	135.34	122.09	105.13	84.97	63.86
BUILDLEN STCK6	85.66	105.40	121.94	134.77	143.51	147.89
BUILDLEN STCK6	147.77	143.17	136.37	145.11	149.43	149.22
BUILDLEN STCK6	144.47	135.34	122.09	105.13	84.97	63.86
BUILDLEN STCK7	85.66	105.40	121.94	134.77	143.51	147.89
BUILDLEN STCK7	147.77	143.17	136.37	145.11	149.43	149.22
BUILDLEN STCK7	144.47	135.34	122.09	105.13	84.97	63.86
BUILDLEN STCK7	85.66	105.40	121.94	134.77	143.51	147.89
BUILDLEN STCK7	147.77	143.17	136.37	145.11	149.43	149.22
BUILDLEN STCK7	144.47	135.34	122.09	105.13	84.97	63.86
BUILDLEN STCK8	67.96	70.94	71.77	70.42	66.93	61.40
BUILDLEN STCK8	54.01	44.98	34.58	44.94	53.93	61.28
BUILDLEN STCK8	66.77	70.24	71.56	70.72	67.72	62.91
BUILDLEN STCK8	67.96	70.94	71.77	70.42	66.93	61.40
BUILDLEN STCK8	54.01	44.98	34.58	44.94	53.93	61.28

BUILDLEN STCK8	66.77	70.24	71.56	70.72	67.72	62.91
BUILDLEN STCK9	85.74	105.73	122.50	135.55	144.48	149.03
BUILDLEN STCK9	149.04	144.53	0.00	145.39	149.74	149.55
BUILDLEN STCK9	144.82	135.68	122.42	105.44	85.26	63.49
BUILDLEN STCK9	85.74	105.73	122.50	135.55	144.48	149.03
BUILDLEN STCK9	149.04	144.53	0.00	145.39	149.74	149.55
BUILDLEN STCK9	144.82	135.68	122.42	105.44	85.26	63.49
BUILDLEN STCK10	85.74	105.73	122.50	135.55	144.48	149.03
BUILDLEN STCK10	149.04	144.53	136.61	145.39	149.74	149.55
BUILDLEN STCK10	144.82	135.68	122.42	105.44	85.26	63.49
BUILDLEN STCK10	85.74	105.73	122.50	135.55	144.48	149.03
BUILDLEN STCK10	149.04	144.53	136.61	145.39	149.74	149.55
BUILDLEN STCK10	144.82	135.68	122.42	105.44	85.26	63.49
BUILDLEN STCK11	86.07	107.04	124.75	138.68	148.39	153.59
BUILDLEN STCK11	154.12	149.98	0.00	147.84	151.91	151.37
BUILDLEN STCK11	146.23	136.64	122.90	105.43	84.75	63.16
BUILDLEN STCK11	86.07	107.04	124.75	138.68	148.39	153.59
BUILDLEN STCK11	154.12	149.98	0.00	147.84	151.91	151.37
BUILDLEN STCK11	146.23	136.64	122.90	105.43	84.75	63.16
BUILDLEN STCK12	86.07	107.04	124.75	138.68	148.39	153.59
BUILDLEN STCK12	154.12	149.98	141.27	147.84	151.91	151.37
BUILDLEN STCK12	146.23	136.64	122.90	105.43	84.75	63.16
BUILDLEN STCK12	86.07	107.04	124.75	138.68	148.39	153.59
BUILDLEN STCK12	154.12	149.98	141.27	147.84	151.91	151.37
BUILDLEN STCK12	146.23	136.64	122.90	105.43	84.75	63.16
BUILDLEN STCK13	131.22	136.85	138.32	135.59	128.74	117.97
BUILDLEN STCK13	103.62	86.12	66.47	86.26	103.64	117.88
BUILDLEN STCK13	128.53	135.28	137.92	136.37	130.68	0.00
BUILDLEN STCK13	131.22	136.85	138.32	135.59	128.74	117.97
BUILDLEN STCK13	103.62	86.12	66.47	86.26	103.64	117.88
BUILDLEN STCK13	128.53	135.28	137.92	136.37	130.68	0.00
BUILDLEN STCK14	131.22	136.85	138.32	135.59	128.74	117.97
BUILDLEN STCK14	103.62	86.12	66.47	86.26	103.64	117.88
BUILDLEN STCK14	128.53	135.28	137.92	136.37	130.68	0.00
BUILDLEN STCK14	131.22	136.85	138.32	135.59	128.74	117.97
BUILDLEN STCK14	103.62	86.12	66.47	86.26	103.64	117.88
BUILDLEN STCK14	128.53	135.28	137.92	136.37	130.68	0.00
BUILDLEN STCK15	83.70	104.02	121.17	134.65	144.03	149.04
BUILDLEN STCK15	149.52	145.45	0.00	144.26	148.49	148.22
BUILDLEN STCK15	143.44	134.30	121.08	104.18	84.12	61.50
BUILDLEN STCK15	83.70	104.02	121.17	134.65	144.03	149.04
BUILDLEN STCK15	149.52	145.45	0.00	144.26	148.49	148.22
BUILDLEN STCK15	143.44	134.30	121.08	104.18	84.12	61.50

BUILDLEN STCK16	83.70	104.02	121.17	134.65	144.03	149.04
BUILDLEN STCK16	149.52	145.45	0.00	144.26	148.49	148.22
BUILDLEN STCK16	143.44	134.30	121.08	104.18	84.12	61.50
BUILDLEN STCK16	83.70	104.02	121.17	134.65	144.03	149.04
BUILDLEN STCK16	149.52	145.45	0.00	144.26	148.49	148.22
BUILDLEN STCK16	143.44	134.30	121.08	104.18	84.12	61.50
BUILDLEN STCK18	85.37	105.38	122.19	135.29	144.27	148.87
BUILDLEN STCK18	148.95	144.50	0.00	145.39	149.99	150.02
BUILDLEN STCK18	145.50	136.56	123.47	106.63	86.54	63.83
BUILDLEN STCK18	85.37	105.38	122.19	135.29	144.27	148.87
BUILDLEN STCK18	148.95	144.50	0.00	145.39	149.99	150.02
BUILDLEN STCK18	145.50	136.56	123.47	106.63	86.54	63.83
BUILDLEN STCK19	85.37	105.38	122.19	135.29	144.27	148.87
BUILDLEN STCK19	148.95	144.50	0.00	145.39	149.99	150.02
BUILDLEN STCK19	145.50	136.56	123.47	106.63	86.54	63.83
BUILDLEN STCK19	85.37	105.38	122.19	135.29	144.27	148.87
BUILDLEN STCK19	148.95	144.50	0.00	145.39	149.99	150.02
BUILDLEN STCK19	145.50	136.56	123.47	106.63	86.54	63.83
BUILDLEN STCK20	85.37	105.97	123.35	136.98	146.45	151.47
BUILDLEN STCK20	151.88	147.69	0.00	147.03	151.26	150.89
BUILDLEN STCK20	145.94	136.56	123.02	105.75	85.27	63.18
BUILDLEN STCK20	85.37	105.97	123.35	136.98	146.45	151.47
BUILDLEN STCK20	151.88	147.69	0.00	147.03	151.26	150.89
BUILDLEN STCK20	145.94	136.56	123.02	105.75	85.27	63.18
BUILDLEN STCK21	85.37	105.97	123.35	136.98	146.45	151.47
BUILDLEN STCK21	151.88	147.69	0.00	147.03	151.26	150.89
BUILDLEN STCK21	145.94	136.56	123.02	105.75	85.27	63.18
BUILDLEN STCK21	85.37	105.97	123.35	136.98	146.45	151.47
BUILDLEN STCK21	151.88	147.69	0.00	147.03	151.26	150.89
BUILDLEN STCK21	145.94	136.56	123.02	105.75	85.27	63.18
BUILDLEN STCK22	70.27	73.68	74.85	73.75	70.40	64.92
BUILDLEN STCK22	57.46	48.26	39.00	49.75	58.98	66.42
BUILDLEN STCK22	71.84	75.08	76.04	74.69	71.07	0.00
BUILDLEN STCK22	70.27	73.68	74.85	73.75	70.40	64.92
BUILDLEN STCK22	57.46	48.26	39.00	49.75	58.98	66.42
BUILDLEN STCK22	71.84	75.08	76.04	74.69	71.07	0.00
BUILDLEN STCK23	69.93	72.57	73.00	136.98	146.45	151.47
BUILDLEN STCK23	151.88	147.69	139.00	147.03	151.26	150.89
BUILDLEN STCK23	145.94	136.56	73.06	72.48	69.70	0.00
BUILDLEN STCK23	69.93	72.57	73.00	136.98	146.45	151.47
BUILDLEN STCK23	151.88	43.94	34.06	44.63	151.26	150.89
BUILDLEN STCK23	145.94	136.56	73.06	72.48	69.70	0.00
BUILDLEN STCK24	143.68	148.71	149.23	145.21	136.78	124.19
BUILDLEN STCK24	107.83	88.20	69.82	92.18	111.73	127.89

BUILDLEN STCK24	140.17	148.18	151.69	150.60	144.93	0.00
BUILDLEN STCK24	143.68	148.71	149.23	145.21	136.78	124.19
BUILDLEN STCK24	107.83	88.20	69.82	92.18	111.73	127.89
BUILDLEN STCK24	140.17	148.18	151.69	150.60	144.93	0.00
BUILDLEN STCK25	143.68	148.71	149.23	145.21	136.78	124.19
BUILDLEN STCK25	107.83	88.20	69.82	92.18	111.73	127.89
BUILDLEN STCK25	140.17	148.18	151.69	150.60	144.93	0.00
BUILDLEN STCK25	143.68	148.71	149.23	145.21	136.78	124.19
BUILDLEN STCK25	107.83	88.20	69.82	92.18	111.73	127.89
BUILDLEN STCK25	140.17	148.18	151.69	150.60	144.93	0.00
BUILDLEN STCK26	97.88	117.43	133.41	145.34	152.85	155.72
BUILDLEN STCK26	153.86	147.32	0.00	146.57	152.99	154.77
BUILDLEN STCK26	151.84	144.30	132.37	116.43	96.94	75.35
BUILDLEN STCK26	97.88	117.43	133.41	145.34	152.85	155.72
BUILDLEN STCK26	153.86	147.32	0.00	146.57	152.99	154.77
BUILDLEN STCK26	151.84	144.30	132.37	116.43	96.94	75.35
BUILDLEN STCK27	97.88	117.43	133.41	145.34	152.85	155.72
BUILDLEN STCK27	153.86	147.32	0.00	146.57	152.99	154.77
BUILDLEN STCK27	151.84	144.30	132.37	116.43	96.94	75.35
BUILDLEN STCK27	97.88	117.43	133.41	145.34	152.85	155.72
BUILDLEN STCK27	153.86	147.32	0.00	146.57	152.99	154.77
BUILDLEN STCK27	151.84	144.30	132.37	116.43	96.94	75.35
BUILDLEN STCK28	82.18	84.48	84.21	145.34	152.85	155.72
BUILDLEN STCK28	153.86	147.32	136.33	146.57	152.99	154.77
BUILDLEN STCK28	151.84	144.30	84.87	84.77	82.08	0.00
BUILDLEN STCK28	82.18	84.48	84.21	145.34	152.85	155.72
BUILDLEN STCK28	153.86	47.29	36.53	49.33	152.99	154.77
BUILDLEN STCK28	151.84	144.30	84.87	84.77	82.08	0.00
BUILDLEN STCK29	159.31	163.61	162.95	157.33	146.93	132.07
BUILDLEN STCK29	113.20	90.89	36.53	49.33	60.63	70.09
BUILDLEN STCK29	77.42	82.40	84.87	165.56	160.90	0.00
BUILDLEN STCK29	159.31	163.61	162.95	157.33	146.93	132.07
BUILDLEN STCK29	113.20	90.89	68.20	93.45	115.86	134.74
BUILDLEN STCK29	149.54	159.79	165.18	165.56	160.90	0.00
BUILDLEN STCK30	159.31	163.61	162.95	157.33	146.93	132.07
BUILDLEN STCK30	113.20	90.89	68.20	93.45	115.86	134.74
BUILDLEN STCK30	149.54	159.79	165.18	165.56	160.90	0.00
BUILDLEN STCK30	159.31	163.61	162.95	157.33	146.93	132.07
BUILDLEN STCK30	113.20	90.89	68.20	93.45	115.86	134.74
BUILDLEN STCK30	149.54	159.79	165.18	165.56	160.90	0.00
BUILDLEN STCK31	81.92	84.22	131.10	143.53	151.60	155.07
BUILDLEN STCK31	153.82	147.90	137.49	146.75	152.65	153.92
BUILDLEN STCK31	150.50	142.52	85.44	85.45	82.86	0.00
BUILDLEN STCK31	81.92	84.22	131.10	143.53	151.60	155.07

BUILDLEN	STCK31	153.82	47.21	36.22	49.17	152.65	153.92
BUILDLEN	STCK31	150.50	142.52	85.44	85.45	82.86	0.00
BUILDLEN	STCK32	94.78	114.68	131.10	143.53	151.60	155.07
BUILDLEN	STCK32	153.82	147.90	0.00	146.75	152.65	153.92
BUILDLEN	STCK32	150.50	142.52	130.20	113.93	94.20	72.40
BUILDLEN	STCK32	94.78	114.68	131.10	143.53	151.60	155.07
BUILDLEN	STCK32	153.82	147.90	0.00	146.75	152.65	153.92
BUILDLEN	STCK32	150.50	142.52	130.20	113.93	94.20	72.40
BUILDLEN	STCK33	94.78	114.68	131.10	143.53	151.60	155.07
BUILDLEN	STCK33	153.82	147.90	0.00	146.75	152.65	153.92
BUILDLEN	STCK33	150.50	142.52	130.20	113.93	94.20	72.40
BUILDLEN	STCK33	94.78	114.68	131.10	143.53	151.60	155.07
BUILDLEN	STCK33	153.82	147.90	0.00	146.75	152.65	153.92
BUILDLEN	STCK33	150.50	142.52	130.20	113.93	94.20	72.40
BUILDLEN	STCK34	51.10	55.69	58.59	79.51	83.08	84.13
BUILDLEN	STCK34	82.62	78.60	0.00	47.74	53.41	57.45
BUILDLEN	STCK34	59.74	60.22	85.44	85.45	82.86	77.75
BUILDLEN	STCK34	81.92	84.22	83.97	59.71	59.02	56.54
BUILDLEN	STCK34	52.33	46.54	0.00	47.74	53.41	57.45
BUILDLEN	STCK34	59.74	60.22	58.87	55.73	50.90	44.95
XBADJ	STCK1	-3.57	-9.42	-14.97	-20.08	-24.57	-28.32
XBADJ	STCK1	-31.20	-33.14	-34.07	-44.59	-53.75	-61.29
XBADJ	STCK1	-66.95	-70.59	-72.08	-71.38	-68.51	-63.56
XBADJ	STCK1	-79.92	-93.86	-104.94	-112.83	-117.30	-118.20
XBADJ	STCK1	-115.51	-109.31	-100.25	-98.15	-93.08	-85.17
XBADJ	STCK1	-74.67	-61.91	-47.27	-31.19	-14.16	2.38
XBADJ	STCK2	-32.53	-38.21	-42.72	-45.93	-47.75	-48.12
XBADJ	STCK2	-47.03	-44.51	-40.63	-44.49	-48.84	-51.71
XBADJ	STCK2	-53.00	-52.69	-50.77	-47.31	-42.42	-36.23
XBADJ	STCK2	-34.80	-32.77	-29.75	-25.83	-21.12	-15.76
XBADJ	STCK2	-9.93	-3.80	2.45	-1.49	-6.31	-10.94
XBADJ	STCK2	-15.23	-19.06	-22.31	-24.89	-26.70	-27.71
XBADJ	STCK3	-53.67	-56.93	-58.45	10.79	2.72	-5.42
XBADJ	STCK3	-13.40	-40.38	0.00	-30.92	-28.44	-25.10
XBADJ	STCK3	-21.00	-101.01	-107.94	-111.58	-111.84	-109.50
XBADJ	STCK3	-126.86	-140.37	-149.62	-154.32	-154.33	-149.65
XBADJ	STCK3	-140.42	-34.30	0.00	-43.74	-50.27	-55.26
XBADJ	STCK3	-58.58	-41.51	-22.27	-2.35	17.65	-48.79
XBADJ	STCK4	16.77	-4.47	-25.59	-59.39	-57.49	-53.83
XBADJ	STCK4	-48.55	-41.78	0.00	-32.27	-146.03	-154.67
XBADJ	STCK4	-158.61	-157.73	-152.06	-141.77	-127.17	-109.51
XBADJ	STCK4	-111.55	-110.21	-105.51	-20.12	-25.60	-30.30
XBADJ	STCK4	-34.07	-36.82	0.00	-46.48	-6.63	0.75
XBADJ	STCK4	8.10	15.21	-62.22	-59.80	-55.57	-49.65

XBADJ	STCK5	-13.38	-29.22	-44.17	-57.78	-69.63	-79.37
XBADJ	STCK5	-86.70	-91.39	-93.31	-103.01	-109.59	-112.83
XBADJ	STCK5	-112.65	-109.04	-102.12	-92.10	-79.28	-64.05
XBADJ	STCK5	-70.12	-74.06	-75.74	-75.13	-72.23	-67.14
XBADJ	STCK5	-60.01	-51.06	-41.01	-39.73	-37.24	-33.62
XBADJ	STCK5	-28.98	-23.46	-17.22	-10.46	-3.39	2.87
XBADJ	STCK6	-3.00	-9.61	-15.93	-21.77	-26.95	-31.31
XBADJ	STCK6	-34.71	-37.06	-38.83	-49.60	-58.86	-66.33
XBADJ	STCK6	-71.79	-75.07	-76.06	-74.75	-71.16	-67.03
XBADJ	STCK6	-82.67	-95.79	-106.01	-113.00	-116.57	-116.58
XBADJ	STCK6	-113.06	-106.10	-97.54	-95.51	-90.57	-82.89
XBADJ	STCK6	-72.68	-60.27	-46.02	-30.38	-13.82	3.17
XBADJ	STCK7	-13.24	-30.06	-45.96	-60.47	-73.13	-83.58
XBADJ	STCK7	-91.49	-96.62	-99.35	-109.25	-115.82	-118.88
XBADJ	STCK7	-118.32	-114.17	-106.56	-95.70	-81.93	-67.30
XBADJ	STCK7	-72.42	-75.35	-75.98	-74.31	-70.38	-64.31
XBADJ	STCK7	-56.28	-46.55	-37.02	-35.86	-33.61	-30.34
XBADJ	STCK7	-26.15	-21.16	-15.53	-9.43	-3.04	3.44
XBADJ	STCK8	-36.72	-41.69	-45.39	-47.71	-48.58	-47.98
XBADJ	STCK8	-45.92	-42.46	-37.71	-42.74	-46.47	-48.79
XBADJ	STCK8	-49.63	-48.96	-46.80	-43.22	-38.33	-32.27
XBADJ	STCK8	-31.24	-29.25	-26.38	-22.71	-18.35	-13.42
XBADJ	STCK8	-8.10	-2.52	3.13	-2.20	-7.46	-12.49
XBADJ	STCK8	-17.14	-21.28	-24.76	-27.50	-29.39	-30.64
XBADJ	STCK9	-1.18	-7.26	-13.12	-18.58	-23.47	-27.66
XBADJ	STCK9	-31.00	-33.40	0.00	-46.34	-56.16	-64.28
XBADJ	STCK9	-70.44	-74.47	-76.23	-75.67	-72.82	-68.08
XBADJ	STCK9	-84.56	-98.46	-109.38	-116.97	-121.01	-121.37
XBADJ	STCK9	-118.04	-111.13	0.00	-99.04	-93.58	-85.27
XBADJ	STCK9	-74.37	-61.21	-46.19	-29.77	-12.45	4.59
XBADJ	STCK10	-12.64	-28.32	-43.14	-56.65	-68.43	-78.14
XBADJ	STCK10	-85.47	-90.21	-92.53	-102.63	-109.61	-113.25
XBADJ	STCK10	-113.46	-110.22	-103.63	-93.89	-81.30	-66.57
XBADJ	STCK10	-73.10	-77.41	-79.36	-78.91	-76.05	-70.89
XBADJ	STCK10	-63.57	-54.32	-44.08	-42.76	-40.14	-36.30
XBADJ	STCK10	-31.36	-25.46	-18.79	-11.55	-3.96	3.08
XBADJ	STCK11	-0.52	-6.88	-13.04	-18.80	-23.99	-28.45
XBADJ	STCK11	-32.04	-34.66	0.00	-45.97	-55.98	-64.28
XBADJ	STCK11	-70.64	-74.84	-76.77	-76.37	-73.65	-68.69
XBADJ	STCK11	-85.55	-100.15	-111.71	-119.88	-124.40	-125.14
XBADJ	STCK11	-122.08	-115.31	0.00	-101.87	-95.94	-87.09
XBADJ	STCK11	-75.59	-61.80	-46.13	-29.06	-11.10	5.53
XBADJ	STCK12	-12.81	-30.05	-46.37	-61.28	-74.33	-85.12

XBADJ	STCK12	-93.33	-98.70	-101.07	-109.65	-116.55	-119.91
XBADJ	STCK12	-119.63	-115.71	-108.28	-97.56	-83.87	-67.64
XBADJ	STCK12	-73.26	-76.99	-78.38	-77.39	-74.05	-68.46
XBADJ	STCK12	-60.79	-51.28	-40.20	-38.20	-35.37	-31.46
XBADJ	STCK12	-26.60	-20.92	-14.62	-7.87	-0.88	4.48
XBADJ	STCK13	-92.74	-86.96	-78.54	-67.73	-54.87	-40.33
XBADJ	STCK13	-24.57	-8.07	8.68	4.43	-0.18	-4.79
XBADJ	STCK13	-9.25	-13.42	-17.19	-20.44	-23.06	0.00
XBADJ	STCK13	-38.49	-49.89	-59.78	-67.86	-73.87	-77.64
XBADJ	STCK13	-79.05	-78.05	-75.15	-90.68	-103.46	-113.09
XBADJ	STCK13	-119.29	-121.86	-120.73	-115.93	-107.61	0.00
XBADJ	STCK14	-29.31	-26.73	-23.35	-19.25	-14.57	-9.45
XBADJ	STCK14	-4.04	1.49	6.98	-8.49	-23.91	-38.61
XBADJ	STCK14	-52.14	-64.09	-74.08	-81.83	-87.09	0.00
XBADJ	STCK14	-101.92	-110.12	-114.97	-116.34	-114.16	-108.52
XBADJ	STCK14	-99.58	-87.62	-73.45	-77.77	-79.73	-79.26
XBADJ	STCK14	-76.39	-71.20	-63.84	-54.54	-43.59	0.00
XBADJ	STCK15	-0.36	-6.65	-12.73	-18.42	-23.56	-27.98
XBADJ	STCK15	-31.55	-34.16	0.00	-45.47	-55.16	-63.18
XBADJ	STCK15	-69.27	-73.26	-75.02	-74.51	-71.73	-66.77
XBADJ	STCK15	-83.34	-97.37	-108.44	-116.22	-120.47	-121.06
XBADJ	STCK15	-117.97	-111.30	0.00	-98.79	-93.33	-85.04
XBADJ	STCK15	-74.17	-61.04	-46.06	-29.67	-12.39	5.27
XBADJ	STCK16	-9.63	-26.60	-42.76	-57.62	-70.73	-81.69
XBADJ	STCK16	-90.17	-95.91	0.00	-107.81	-114.94	-118.59
XBADJ	STCK16	-118.62	-115.06	-108.00	-97.65	-84.34	-68.47
XBADJ	STCK16	-74.07	-77.42	-78.42	-77.03	-73.31	-67.35
XBADJ	STCK16	-59.35	-49.55	0.00	-36.45	-33.55	-29.63
XBADJ	STCK16	-24.81	-19.24	-13.08	-6.53	0.22	6.97
XBADJ	STCK18	1.06	-5.36	-11.61	-17.51	-22.88	-27.55
XBADJ	STCK18	-31.39	-34.27	0.00	-48.58	-58.84	-67.33
XBADJ	STCK18	-73.76	-77.96	-79.78	-79.18	-76.18	-70.86
XBADJ	STCK18	-86.43	-100.02	-110.58	-117.77	-121.39	-121.32
XBADJ	STCK18	-117.56	-110.23	0.00	-96.82	-91.14	-82.70
XBADJ	STCK18	-71.74	-58.60	-43.69	-27.44	-10.36	7.03
XBADJ	STCK19	-11.85	-29.09	-45.44	-60.41	-73.54	-84.44
XBADJ	STCK19	-92.78	-98.29	0.00	-112.01	-119.07	-122.52
XBADJ	STCK19	-122.24	-118.25	-110.66	-99.72	-85.74	-69.16
XBADJ	STCK19	-73.52	-76.29	-76.75	-74.88	-70.73	-64.43
XBADJ	STCK19	-56.17	-46.21	0.00	-33.39	-30.92	-27.51
XBADJ	STCK19	-23.26	-18.31	-12.80	-6.91	-0.80	5.33
XBADJ	STCK20	-73.62	-76.33	-76.72	-74.78	-70.56	-64.20
XBADJ	STCK20	-55.89	-45.88	0.00	-33.00	-30.52	-27.11
XBADJ	STCK20	-22.88	-17.95	-12.48	-6.62	-0.57	5.50

XBADJ	STCK20	-11.75	-29.64	-46.63	-62.20	-75.89	-87.27
XBADJ	STCK20	-95.99	-101.80	0.00	-114.03	-120.74	-123.78
XBADJ	STCK20	-123.06	-118.61	-110.55	-99.13	-84.69	-68.68
XBADJ	STCK21	-87.03	-101.88	-113.64	-121.94	-126.54	-127.30
XBADJ	STCK21	-124.19	-117.30	0.00	-104.12	-98.23	-89.36
XBADJ	STCK21	-77.77	-63.82	-47.93	-30.58	-12.30	6.35
XBADJ	STCK21	1.66	-4.09	-9.71	-15.04	-19.90	-24.17
XBADJ	STCK21	-27.70	-30.39	0.00	-42.90	-53.02	-61.53
XBADJ	STCK21	-68.17	-72.74	-75.10	-75.17	-72.97	-69.53
XBADJ	STCK22	-44.68	-50.32	-54.42	-56.87	-57.60	-56.57
XBADJ	STCK22	-53.82	-49.44	-44.69	-48.85	-51.53	-52.64
XBADJ	STCK22	-52.16	-50.08	-46.49	-41.48	-35.22	0.00
XBADJ	STCK22	-25.59	-23.37	-20.43	-16.88	-12.81	-8.35
XBADJ	STCK22	-3.64	1.18	5.69	-0.89	-7.45	-13.78
XBADJ	STCK22	-19.69	-25.00	-29.55	-33.21	-35.85	0.00
XBADJ	STCK23	-32.13	-29.50	-25.97	-131.22	-147.25	-158.82
XBADJ	STCK23	-165.56	-167.26	-163.89	-166.51	-164.07	-156.64
XBADJ	STCK23	-144.45	-127.88	-23.62	-26.99	-29.53	0.00
XBADJ	STCK23	-37.80	-43.07	-47.04	-5.76	0.81	7.35
XBADJ	STCK23	13.67	-44.57	-40.65	-45.87	12.81	5.75
XBADJ	STCK23	-1.49	-8.68	-49.44	-45.50	-40.17	0.00
XBADJ	STCK24	-99.77	-93.61	-84.59	-73.01	-59.21	-43.61
XBADJ	STCK24	-26.68	-8.95	5.97	0.28	-5.41	-10.94
XBADJ	STCK24	-16.14	-20.84	-24.92	-28.24	-30.69	0.00
XBADJ	STCK24	-43.91	-55.11	-64.64	-72.20	-77.57	-80.58
XBADJ	STCK24	-81.15	-79.25	-75.79	-92.46	-106.32	-116.95
XBADJ	STCK24	-124.03	-127.34	-126.78	-122.36	-114.23	0.00
XBADJ	STCK25	-28.36	-25.31	-21.49	-17.02	-12.04	-6.69
XBADJ	STCK25	-1.13	4.46	6.82	-11.45	-29.36	-46.39
XBADJ	STCK25	-62.00	-75.74	-87.17	-95.95	-101.82	0.00
XBADJ	STCK25	-115.32	-123.41	-127.74	-128.19	-124.74	-117.51
XBADJ	STCK25	-106.70	-92.65	-76.64	-80.73	-82.37	-81.50
XBADJ	STCK25	-78.16	-72.44	-64.53	-54.65	-43.11	0.00
XBADJ	STCK26	-1.72	-8.68	-15.37	-21.59	-27.16	-31.91
XBADJ	STCK26	-35.68	-38.38	0.00	-52.52	-64.19	-73.91
XBADJ	STCK26	-81.38	-86.37	-88.75	-88.42	-85.41	-80.64
XBADJ	STCK26	-96.16	-108.75	-118.04	-123.75	-125.69	-123.81
XBADJ	STCK26	-118.18	-108.95	0.00	-94.04	-88.80	-80.86
XBADJ	STCK26	-70.46	-57.92	-43.62	-28.00	-11.53	5.29
XBADJ	STCK27	-10.30	-26.58	-42.05	-56.25	-68.73	-79.13
XBADJ	STCK27	-87.12	-92.46	0.00	-106.96	-116.31	-122.12
XBADJ	STCK27	-124.23	-122.56	-117.16	-108.21	-95.97	-81.64
XBADJ	STCK27	-87.57	-90.85	-91.36	-89.09	-84.12	-76.60
XBADJ	STCK27	-66.74	-54.86	0.00	-39.61	-36.68	-32.64

XBADJ	STCK27	-27.61	-21.74	-15.21	-8.22	-0.97	6.29
XBADJ	STCK28	-36.75	-34.03	-30.27	-133.31	-149.74	-161.63
XBADJ	STCK28	-168.60	-170.46	-167.13	-171.04	-170.38	-164.55
XBADJ	STCK28	-153.73	-138.23	-31.33	-34.98	-37.58	0.00
XBADJ	STCK28	-45.43	-50.45	-53.94	-12.03	-3.11	5.91
XBADJ	STCK28	14.74	-46.45	-41.48	-47.43	17.39	9.79
XBADJ	STCK28	1.89	-6.07	-53.55	-49.78	-44.51	0.00
XBADJ	STCK29	-108.66	-101.50	-91.26	-78.25	-62.86	-45.56
XBADJ	STCK29	-26.88	-7.37	-80.19	-92.71	-102.41	-109.00
XBADJ	STCK29	-112.27	-112.14	-108.60	-32.69	-36.32	0.00
XBADJ	STCK29	-50.65	-62.11	-71.69	-79.08	-84.07	-86.51
XBADJ	STCK29	-86.32	-83.51	-79.36	-97.69	-113.05	-124.98
XBADJ	STCK29	-133.11	-137.20	-137.12	-132.87	-124.58	0.00
XBADJ	STCK30	-44.03	-39.87	-34.50	-28.08	-20.81	-12.90
XBADJ	STCK30	-4.61	3.83	10.96	-7.35	-25.45	-42.76
XBADJ	STCK30	-58.78	-73.01	-85.03	-94.46	-101.02	0.00
XBADJ	STCK30	-115.28	-123.74	-128.45	-129.25	-126.13	-119.17
XBADJ	STCK30	-108.59	-94.72	-79.16	-86.09	-90.41	-91.98
XBADJ	STCK30	-90.75	-86.77	-80.15	-71.10	-59.88	0.00
XBADJ	STCK31	-43.69	-40.41	-120.86	-139.99	-154.86	-165.03
XBADJ	STCK31	-170.19	-170.17	-164.98	-166.84	-163.94	-156.05
XBADJ	STCK31	-143.43	-126.45	-24.24	-27.62	-30.17	0.00
XBADJ	STCK31	-38.23	-43.81	-10.24	-3.54	3.26	9.96
XBADJ	STCK31	16.36	-46.41	-42.82	-50.15	11.28	2.14
XBADJ	STCK31	-7.08	-16.07	-61.20	-57.82	-52.69	0.00
XBADJ	STCK32	-86.24	-89.24	-89.54	-87.12	-82.04	-74.48
XBADJ	STCK32	-64.65	-52.86	0.00	-36.92	-33.57	-29.20
XBADJ	STCK32	-23.94	-17.96	-11.43	-4.55	2.47	8.61
XBADJ	STCK32	-8.54	-25.44	-41.56	-56.42	-69.56	-80.59
XBADJ	STCK32	-89.17	-95.05	0.00	-109.83	-119.08	-124.72
XBADJ	STCK32	-126.56	-124.56	-118.78	-109.38	-96.66	-81.01
XBADJ	STCK33	-97.70	-112.44	-123.77	-131.33	-134.91	-134.38
XBADJ	STCK33	-129.78	-121.22	0.00	-105.50	-99.12	-89.72
XBADJ	STCK33	-77.60	-63.12	-46.73	-28.91	-10.22	7.99
XBADJ	STCK33	2.92	-2.24	-7.33	-12.20	-16.70	-20.69
XBADJ	STCK33	-24.05	-26.68	0.00	-41.25	-53.53	-64.19
XBADJ	STCK33	-72.90	-79.39	-83.47	-85.02	-83.98	-80.39
XBADJ	STCK34	-54.03	-54.70	-53.71	-108.72	-115.95	-119.65
XBADJ	STCK34	-119.72	-116.15	0.00	-16.39	-14.45	-12.06
XBADJ	STCK34	-9.31	-6.28	-107.28	-112.42	-114.15	-112.41
XBADJ	STCK34	-113.02	-110.51	-104.64	-8.63	-12.11	-15.23
XBADJ	STCK34	-17.88	-19.99	0.00	-31.35	-38.96	-45.38
XBADJ	STCK34	-50.43	-53.94	-55.81	-55.99	-54.47	-51.72

YBADJ	STCK1	-26.78	-19.66	-11.94	-3.86	4.34	12.41
YBADJ	STCK1	20.10	27.18	32.97	38.18	42.22	44.98
YBADJ	STCK1	46.38	46.36	44.94	42.15	38.09	33.09
YBADJ	STCK1	26.78	19.66	11.94	3.86	-4.34	-12.41
YBADJ	STCK1	-20.10	-27.18	-32.97	-38.18	-42.22	-44.98
YBADJ	STCK1	-46.38	-46.36	-44.94	-42.15	-38.09	-33.09
YBADJ	STCK2	21.50	21.27	20.39	18.89	16.81	14.23
YBADJ	STCK2	11.21	7.86	4.26	1.13	-2.72	-6.48
YBADJ	STCK2	-10.05	-13.32	-16.18	-18.55	-20.35	-21.54
YBADJ	STCK2	-21.50	-21.27	-20.39	-18.89	-16.81	-14.23
YBADJ	STCK2	-11.21	-7.86	-4.26	-1.13	2.72	6.48
YBADJ	STCK2	10.05	13.32	16.18	18.55	20.35	21.54
YBADJ	STCK3	-6.41	-10.91	-15.08	15.76	29.75	42.84
YBADJ	STCK3	54.62	-27.07	0.00	-26.68	-25.15	-22.85
YBADJ	STCK3	-19.86	78.53	72.11	63.51	52.98	40.83
YBADJ	STCK3	27.32	13.21	-1.29	-15.76	-29.75	-42.84
YBADJ	STCK3	-54.62	27.07	0.00	26.68	25.15	22.85
YBADJ	STCK3	19.86	-78.53	-72.11	-63.51	-52.98	-1.72
YBADJ	STCK4	59.57	69.70	77.71	-19.54	-22.65	-25.08
YBADJ	STCK4	-26.74	-27.59	0.00	-26.77	52.87	39.96
YBADJ	STCK4	25.85	10.94	-4.29	-19.39	-33.91	-47.40
YBADJ	STCK4	-59.57	-69.70	-77.71	19.54	22.65	25.08
YBADJ	STCK4	26.74	27.59	0.00	26.77	-52.87	-39.96
YBADJ	STCK4	-25.85	-10.94	11.77	7.24	2.48	-2.35
YBADJ	STCK5	31.64	36.17	39.61	41.84	42.79	42.45
YBADJ	STCK5	40.82	37.95	33.46	28.37	22.42	15.79
YBADJ	STCK5	8.68	1.30	-6.12	-13.35	-20.17	-26.15
YBADJ	STCK5	-31.64	-36.17	-39.61	-41.84	-42.79	-42.45
YBADJ	STCK5	-40.82	-37.95	-33.46	-28.37	-22.42	-15.79
YBADJ	STCK5	-8.68	-1.30	6.12	13.35	20.17	26.15
YBADJ	STCK6	-22.95	-15.86	-8.28	-0.45	7.40	15.02
YBADJ	STCK6	22.18	28.67	35.10	39.84	43.09	45.04
YBADJ	STCK6	45.62	44.81	42.64	39.17	34.52	29.35
YBADJ	STCK6	22.95	15.86	8.28	0.45	-7.40	-15.02
YBADJ	STCK6	-22.18	-28.67	-35.10	-39.84	-43.09	-45.04
YBADJ	STCK6	-45.62	-44.81	-42.64	-39.17	-34.52	-29.35
YBADJ	STCK7	36.69	41.11	44.27	46.09	46.51	45.51
YBADJ	STCK7	43.13	39.45	35.37	29.59	22.65	15.01
YBADJ	STCK7	6.92	-1.38	-9.64	-17.60	-25.03	-31.16
YBADJ	STCK7	-36.69	-41.11	-44.27	-46.09	-46.51	-45.51
YBADJ	STCK7	-43.13	-39.45	-35.37	-29.59	-22.65	-15.01
YBADJ	STCK7	-6.92	1.38	9.64	17.60	25.03	31.16
YBADJ	STCK8	20.27	19.51	18.15	16.24	13.84	11.02
YBADJ	STCK8	7.86	4.47	0.82	-2.74	-6.22	-9.50

YBADJ	STCK8	-12.50	-15.12	-17.28	-18.91	-19.97	-20.42
YBADJ	STCK8	-20.27	-19.51	-18.15	-16.24	-13.84	-11.02
YBADJ	STCK8	-7.86	-4.47	-0.81	2.74	6.22	9.50
YBADJ	STCK8	12.50	15.12	17.28	18.91	19.97	20.42
YBADJ	STCK9	-26.35	-18.71	-10.50	-1.96	6.63	15.02
YBADJ	STCK9	22.95	30.19	0.00	41.69	45.60	48.13
YBADJ	STCK9	49.20	48.77	46.86	43.52	38.87	33.19
YBADJ	STCK9	26.35	18.71	10.50	1.96	-6.63	-15.02
YBADJ	STCK9	-22.95	-30.19	0.00	-41.69	-45.60	-48.13
YBADJ	STCK9	-49.20	-48.77	-46.86	-43.52	-38.87	-33.19
YBADJ	STCK10	29.93	34.73	38.48	41.05	42.38	42.42
YBADJ	STCK10	41.17	38.67	34.82	30.23	24.54	18.11
YBADJ	STCK10	11.13	3.81	-3.62	-10.95	-17.94	-24.23
YBADJ	STCK10	-29.93	-34.73	-38.48	-41.05	-42.38	-42.42
YBADJ	STCK10	-41.17	-38.67	-34.83	-30.23	-24.54	-18.11
YBADJ	STCK10	-11.13	-3.81	3.62	10.95	17.94	24.23
YBADJ	STCK11	-27.95	-19.98	-11.40	-2.48	6.52	15.32
YBADJ	STCK11	23.66	31.27	0.00	42.52	46.63	49.34
YBADJ	STCK11	50.54	50.21	48.35	45.02	40.33	34.40
YBADJ	STCK11	27.95	19.98	11.40	2.48	-6.52	-15.32
YBADJ	STCK11	-23.66	-31.27	0.00	-42.52	-46.63	-49.34
YBADJ	STCK11	-50.54	-50.21	-48.35	-45.02	-40.33	-34.40
YBADJ	STCK12	35.72	40.59	44.23	46.52	47.40	46.83
YBADJ	STCK12	44.85	41.50	36.06	30.22	23.47	16.01
YBADJ	STCK12	8.06	-0.14	-8.33	-16.27	-23.71	-30.44
YBADJ	STCK12	-35.72	-40.59	-44.23	-46.52	-47.40	-46.83
YBADJ	STCK12	-44.85	-41.50	-36.06	-30.22	-23.47	-16.01
YBADJ	STCK12	-8.06	0.14	8.33	16.27	23.71	30.44
YBADJ	STCK13	-47.55	-51.64	-54.15	-55.02	-54.22	-51.77
YBADJ	STCK13	-47.75	-42.27	-35.05	-27.13	-18.53	-9.38
YBADJ	STCK13	0.06	9.50	18.65	27.24	34.99	0.00
YBADJ	STCK13	47.55	51.64	54.15	55.02	54.22	51.77
YBADJ	STCK13	47.75	42.27	35.05	27.13	18.53	9.38
YBADJ	STCK13	-0.06	-9.50	-18.65	-27.24	-34.99	0.00
YBADJ	STCK14	-34.64	-27.91	-20.32	-12.12	-3.56	5.12
YBADJ	STCK14	13.64	21.75	29.66	36.31	41.69	45.81
YBADJ	STCK14	48.54	49.79	49.54	47.77	44.55	0.00
YBADJ	STCK14	34.64	27.91	20.32	12.12	3.56	-5.12
YBADJ	STCK14	-13.64	-21.75	-29.66	-36.31	-41.69	-45.81
YBADJ	STCK14	-48.54	-49.79	-49.54	-47.77	-44.55	0.00
YBADJ	STCK15	-26.66	-19.08	-10.93	-2.45	6.11	14.48
YBADJ	STCK15	22.42	29.67	0.00	41.49	45.36	47.86
YBADJ	STCK15	48.90	48.46	46.54	43.21	38.57	32.76
YBADJ	STCK15	26.66	19.08	10.93	2.45	-6.11	-14.48

YBADJ	STCK15	-22.42	-29.67	0.00	-41.49	-45.36	-47.86
YBADJ	STCK15	-48.90	-48.46	-46.54	-43.21	-38.57	-32.75
YBADJ	STCK16	35.68	40.70	44.48	46.91	47.91	47.46
YBADJ	STCK16	45.56	42.28	0.00	32.22	25.41	17.83
YBADJ	STCK16	9.71	1.29	-7.17	-15.41	-23.18	-30.24
YBADJ	STCK16	-35.68	-40.70	-44.48	-46.91	-47.91	-47.46
YBADJ	STCK16	-45.56	-42.28	0.00	-32.22	-25.41	-17.83
YBADJ	STCK16	-9.71	-1.29	7.17	15.41	23.18	30.25
YBADJ	STCK18	-24.12	-16.15	-7.69	1.01	9.68	18.05
YBADJ	STCK18	25.87	32.91	0.00	43.74	47.33	49.48
YBADJ	STCK18	50.13	49.26	46.88	43.09	37.98	31.36
YBADJ	STCK18	24.12	16.15	7.69	-1.01	-9.68	-18.05
YBADJ	STCK18	-25.87	-32.91	0.00	-43.74	-47.33	-49.48
YBADJ	STCK18	-50.13	-49.26	-46.88	-43.09	-37.98	-31.36
YBADJ	STCK19	39.31	44.08	47.50	49.49	49.97	48.93
YBADJ	STCK19	46.41	42.47	0.00	30.83	23.60	15.66
YBADJ	STCK19	7.23	-1.41	-10.01	-18.30	-26.04	-33.35
YBADJ	STCK19	-39.31	-44.08	-47.50	-49.49	-49.97	-48.93
YBADJ	STCK19	-46.41	-42.47	0.00	-30.83	-23.60	-15.66
YBADJ	STCK19	-7.23	1.41	10.01	18.30	26.04	33.35
YBADJ	STCK20	-40.51	-45.11	-48.34	-50.09	-50.33	-49.03
YBADJ	STCK20	-46.25	-42.06	0.00	-30.94	-23.35	-15.04
YBADJ	STCK20	-6.29	2.66	11.53	20.05	27.96	35.02
YBADJ	STCK20	40.51	45.11	48.34	50.09	50.33	49.03
YBADJ	STCK20	46.25	42.06	0.00	30.94	23.35	15.04
YBADJ	STCK20	6.29	-2.66	-11.53	-20.05	-27.96	-35.02
YBADJ	STCK21	30.61	22.61	13.91	4.80	-4.46	-13.59
YBADJ	STCK21	-22.30	-30.33	0.00	-44.34	-48.90	-51.97
YBADJ	STCK21	-53.45	-53.32	-51.57	-48.24	-43.46	-37.35
YBADJ	STCK21	-30.61	-22.61	-13.91	-4.80	4.46	13.59
YBADJ	STCK21	22.30	30.33	0.00	44.34	48.90	51.97
YBADJ	STCK21	53.45	53.32	51.57	48.24	43.46	37.35
YBADJ	STCK22	23.98	22.04	19.43	16.23	12.54	8.47
YBADJ	STCK22	4.14	-0.32	-4.90	-9.54	-13.47	-16.99
YBADJ	STCK22	-20.00	-22.39	-24.11	-25.09	-25.31	0.00
YBADJ	STCK22	-23.98	-22.04	-19.43	-16.23	-12.54	-8.47
YBADJ	STCK22	-4.14	0.32	4.91	9.54	13.47	16.99
YBADJ	STCK22	20.00	22.39	24.11	25.09	25.31	0.00
YBADJ	STCK23	-23.56	-22.69	-21.14	71.48	59.60	45.90
YBADJ	STCK23	30.81	14.79	-2.18	-19.03	-34.80	-49.52
YBADJ	STCK23	-62.73	-74.03	19.45	21.35	22.59	0.00
YBADJ	STCK23	23.56	22.69	21.14	-71.48	-59.60	-45.90
YBADJ	STCK23	-30.81	5.32	1.20	-2.83	34.80	49.52
YBADJ	STCK23	62.73	74.03	-19.45	-21.35	-22.59	0.00

YBADJ	STCK24	-46.37	-50.46	-53.01	-53.95	-53.25	-50.93
YBADJ	STCK24	-47.06	-41.77	-35.35	-27.93	-19.25	-9.98
YBADJ	STCK24	-0.40	9.18	18.49	27.23	35.15	0.00
YBADJ	STCK24	46.37	50.46	53.01	53.95	53.25	50.93
YBADJ	STCK24	47.06	41.77	35.35	27.93	19.25	9.98
YBADJ	STCK24	0.40	-9.18	-18.49	-27.23	-35.15	0.00
YBADJ	STCK25	-34.64	-26.50	-17.56	-8.08	1.65	11.32
YBADJ	STCK25	20.65	29.35	37.03	43.48	49.05	53.12
YBADJ	STCK25	55.58	56.35	55.41	52.78	48.55	0.00
YBADJ	STCK25	34.64	26.50	17.56	8.08	-1.65	-11.32
YBADJ	STCK25	-20.65	-29.35	-37.03	-43.48	-49.05	-53.12
YBADJ	STCK25	-55.58	-56.35	-55.41	-52.78	-48.55	0.00
YBADJ	STCK26	-20.76	-12.31	-3.48	5.46	14.22	22.56
YBADJ	STCK26	30.21	36.94	0.00	47.22	50.04	51.34
YBADJ	STCK26	51.08	49.26	45.95	41.25	35.29	28.26
YBADJ	STCK26	20.76	12.31	3.48	-5.46	-14.23	-22.56
YBADJ	STCK26	-30.21	-36.94	0.00	-47.22	-50.04	-51.34
YBADJ	STCK26	-51.08	-49.26	-45.95	-41.25	-35.29	-28.27
YBADJ	STCK27	33.68	39.81	44.74	48.31	50.41	50.98
YBADJ	STCK27	50.00	47.50	0.00	38.64	32.13	24.65
YBADJ	STCK27	16.42	7.70	-1.27	-10.19	-18.80	-26.84
YBADJ	STCK27	-33.68	-39.81	-44.74	-48.31	-50.41	-50.98
YBADJ	STCK27	-50.00	-47.50	0.00	-38.64	-32.13	-24.65
YBADJ	STCK27	-16.42	-7.70	1.27	10.19	18.80	26.83
YBADJ	STCK28	-22.76	-21.62	-19.82	77.81	66.08	52.34
YBADJ	STCK28	37.01	20.56	3.89	-13.35	-30.19	-46.11
YBADJ	STCK28	-60.64	-73.32	20.17	21.82	22.80	0.00
YBADJ	STCK28	22.76	21.62	19.82	-77.81	-66.08	-52.34
YBADJ	STCK28	-37.01	3.47	-0.34	-4.34	30.19	46.11
YBADJ	STCK28	60.64	73.32	-20.17	-21.82	-22.80	0.00
YBADJ	STCK29	-50.97	-55.13	-57.61	-58.35	-57.31	-54.53
YBADJ	STCK29	-50.09	-44.13	40.41	29.02	16.75	3.97
YBADJ	STCK29	-8.93	-21.56	-33.53	29.72	38.07	0.00
YBADJ	STCK29	50.97	55.13	57.61	58.34	57.31	54.53
YBADJ	STCK29	50.09	44.13	36.83	29.00	19.69	9.79
YBADJ	STCK29	-0.42	-10.61	-20.48	-29.72	-38.07	0.00
YBADJ	STCK30	-39.37	-32.48	-24.61	-15.99	-6.88	2.44
YBADJ	STCK30	11.68	20.57	28.83	35.62	41.94	46.98
YBADJ	STCK30	50.59	52.66	53.13	51.99	49.27	0.00
YBADJ	STCK30	39.37	32.48	24.61	15.99	6.88	-2.44
YBADJ	STCK30	-11.68	-20.57	-28.83	-35.62	-41.94	-46.98
YBADJ	STCK30	-50.59	-52.66	-53.13	-51.99	-49.27	0.00
YBADJ	STCK31	-25.56	-25.64	79.09	68.18	55.19	40.52

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   YBADJ    STCK31          24.62     7.98    -8.51   -24.89   -40.72   -55.31
   YBADJ    STCK31         -68.22   -79.06    17.59    20.51    22.80     0.00
   YBADJ    STCK31          25.56    25.64   -79.09   -68.18   -55.19   -40.52
   YBADJ    STCK31         -24.62    11.26     7.08     2.73    40.72    55.31
   YBADJ    STCK31          68.22    79.06   -17.59   -20.51   -22.80     0.00

   YBADJ    STCK32         -36.45   -42.76   -47.76   -51.31   -53.30   -53.68
   YBADJ    STCK32         -52.42   -49.57     0.00   -38.85   -31.90   -23.99
   YBADJ    STCK32         -15.35    -6.24     3.06    12.26    21.09    29.29
   YBADJ    STCK32          36.45    42.76    47.76    51.31    53.30    53.68
   YBADJ    STCK32          52.42    49.57     0.00    38.85    31.90    23.99
   YBADJ    STCK32          15.35     6.24    -3.06   -12.26   -21.09   -29.29

   YBADJ    STCK33          32.13    22.79    12.77     2.35    -8.13   -18.37
   YBADJ    STCK33         -28.05   -36.88     0.00   -50.31   -55.10   -58.22
   YBADJ    STCK33         -59.57   -59.11   -56.85   -52.86   -47.27   -40.24
   YBADJ    STCK33         -32.13   -22.79   -12.77    -2.35     8.13    18.37
   YBADJ    STCK33          28.05    36.88     0.00    50.31    55.10    58.22
   YBADJ    STCK33          59.57    59.11    56.85    52.86    47.27    40.24

   YBADJ    STCK34          -7.48   -12.25   -16.66    37.36    24.82    11.52
   YBADJ    STCK34          -2.13   -15.71     0.00   -28.48   -26.86   -24.41
   YBADJ    STCK34         -21.23   -17.40    34.98    23.21    10.74    -1.75
   YBADJ    STCK34         -14.49   -26.79   -38.28    20.56    23.83    26.38
   YBADJ    STCK34          28.13    29.02     0.00    28.48    26.86    24.41
   YBADJ    STCK34          21.23    17.40    13.04     8.29     3.28    -2.48

   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "6627b DHS 109 - 2nd 14 years.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\DesertHotSpringsAirportADJU\KTRM_V9_ADJU\KTRM_v9.SFC
   PROFFILE "..\..\..\..\..\Dropbox\Kunzman\Projects\6627 DHS 109\HRA\KTRM_V9_ADJU\KTRM_v9.PFL"
   SURFDATA 3104 2012
   UAIRDATA 3190 2012
   PROFBASE -36.0 METERS
```

```
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD ALL "6627B DHS 109 - 2ND 14 YEARS.AD\PE00GALL.PLT" 31
   SUMMFILE "6627b DHS 109 - 2nd 14 years.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of           36 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


    ********   WARNING MESSAGES   ********
 SO W320    4337        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    4338        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    4339        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    4340        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5953        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5954        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5955        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5956        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5957        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5958        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5959        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5960        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5961        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5962        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5963        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5964        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5965        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5966        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5967        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5968        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5969        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5970        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
 SO W320    5971        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
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SO W320    5972        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5973        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5974        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5975        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5976        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5977        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5978        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5979        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5980        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320    5981        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
ME W340    9231       PRBASE: Possible Error in PROFBASE Input:  Value is < 0       PROFBASE
ME W186    9232       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187    9232       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

**********************************
*** SETUP Finishes Successfully ***
**********************************


*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 2nd 14 years                    ***        05/26/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 2nd 14 years                          ***        07:57:00
                                                                                                                  PAGE   1
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                        ***     MODEL SETUP OPTIONS SUMMARY       ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

**Model Is Setup For Calculation of Average CONCentration Values.

  --  DEPOSITION LOGIC  --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
**Model Uses NO WET DEPLETION.  WETDPLT  =  F

**Model Uses URBAN Dispersion Algorithm for the SBL for  3880 Source(s),
  for Total of    1 Urban Area(s):
  Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
       1. Stack-tip Downwash.
       2. Model Accounts for ELEVated Terrain Effects.
       3. Use Calms Processing Routine.
       4. Use Missing Data Processing Routine.
       5. No Exponential Decay.
       6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:
       ADJ_U*   - Use ADJ_U* option for SBL in AERMET
       CCVR_Sub - Meteorological data includes CCVR substitutions
       TEMP_Sub - Meteorological data includes TEMP substitutions
```

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**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of:  DPM

**Model Calculates PERIOD Averages Only

**This Run Includes:   3880 Source(s);       1 Source Group(s); and     454 Receptor(s)

               with:     33 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:   3847 VOLUME source(s)
                and:      0 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with      0 line(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
         Model Outputs Tables of PERIOD Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   -36.00 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                             ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =     10.5 MB of RAM.

**Input Runstream File:          aermod.inp
**Output Print File:             aermod.out

**Detailed Error/Message File:   6627b DHS 109 - 2nd 14 years.err
**File for Summary of Results:   6627b DHS 109 - 2nd 14 years.sum

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 2nd 14 years                    ***        05/26/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 2nd 14 years                          ***        07:57:00
                                                                                                                    PAGE   2
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** POINT SOURCE DATA ***
```

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR	EMIS RATE SCALAR VARY BY
STCK1	0	0.15000E-04	544038.8	3755457.5	288.1	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK2	0	0.15000E-04	543964.4	3755485.8	288.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK3	0	0.15000E-04	544154.1	3754819.6	276.3	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK4	0	0.15000E-04	544242.3	3754819.6	275.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK5	0	0.15000E-04	544098.1	3755457.0	287.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK6	0	0.15000E-04	544228.2	3755457.2	287.4	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK7	0	0.15000E-04	544288.7	3755456.9	287.0	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK8	0	0.15000E-04	543964.1	3755374.2	286.8	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK9	0	0.15000E-04	544038.3	3755339.9	285.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK10	0	0.15000E-04	544095.7	3755341.4	285.8	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK11	0	0.15000E-04	544222.8	3755337.4	285.2	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK12	0	0.15000E-04	544287.6	3755338.4	285.0	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK13	0	0.15000E-04	544384.0	3755372.0	284.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK14	0	0.15000E-04	544385.7	3755307.3	283.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK15	0	0.15000E-04	544039.1	3755242.6	283.6	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK16	0	0.15000E-04	544102.1	3755240.9	283.6	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK18	0	0.15000E-04	544221.3	3755240.9	283.5	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK19	0	0.15000E-04	544286.0	3755242.6	283.4	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK20	0	0.15000E-04	544163.4	3755195.7	282.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK21	0	0.15000E-04	544235.8	3755196.6	282.8	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK22	0	0.15000E-04	544091.9	3755163.4	282.4	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK23	0	0.15000E-04	544292.8	3755160.8	282.0	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK24	0	0.15000E-04	544383.3	3755192.5	282.2	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK25	0	0.15000E-04	544382.5	3755120.1	280.9	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK26	0	0.15000E-04	544167.2	3755002.5	279.5	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK27	0	0.15000E-04	544222.3	3755001.5	279.3	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK28	0	0.15000E-04	544294.4	3755041.5	279.8	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK29	0	0.15000E-04	544379.5	3755001.5	278.5	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK30	0	0.15000E-04	544379.7	3754935.8	277.2	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK31	0	0.15000E-04	544291.1	3754901.4	277.0	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK32	0	0.15000E-04	544165.6	3754937.7	278.3	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK33	0	0.15000E-04	544235.1	3754937.0	278.0	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK34	0	0.15000E-04	544317.6	3754820.8	275.4	3.66	366.00	51.90	0.10	YES	YES	NO	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY

L0046098	0	0.12370E-06	544360.9	3755555.2	288.1	0.00	1.70	0.76	YES
L0046099	0	0.12370E-06	544357.2	3755555.2	288.1	0.00	1.70	0.76	YES
L0046100	0	0.12370E-06	544353.6	3755555.2	288.1	0.00	1.70	0.76	YES
L0046101	0	0.12370E-06	544349.9	3755555.2	288.2	0.00	1.70	0.76	YES
L0046102	0	0.12370E-06	544346.2	3755555.1	288.2	0.00	1.70	0.76	YES
L0046103	0	0.12370E-06	544342.6	3755555.1	288.2	0.00	1.70	0.76	YES
L0046104	0	0.12370E-06	544338.9	3755555.1	288.2	0.00	1.70	0.76	YES
L0046105	0	0.12370E-06	544335.3	3755555.1	288.3	0.00	1.70	0.76	YES
L0046106	0	0.12370E-06	544331.6	3755555.0	288.3	0.00	1.70	0.76	YES
L0046107	0	0.12370E-06	544328.0	3755555.0	288.3	0.00	1.70	0.76	YES
L0046108	0	0.12370E-06	544324.3	3755555.0	288.3	0.00	1.70	0.76	YES
L0046109	0	0.12370E-06	544320.6	3755554.9	288.4	0.00	1.70	0.76	YES
L0046110	0	0.12370E-06	544317.0	3755554.9	288.4	0.00	1.70	0.76	YES
L0046111	0	0.12370E-06	544313.3	3755554.9	288.4	0.00	1.70	0.76	YES
L0046112	0	0.12370E-06	544309.7	3755554.9	288.4	0.00	1.70	0.76	YES
L0046113	0	0.12370E-06	544306.0	3755554.8	288.5	0.00	1.70	0.76	YES
L0046114	0	0.12370E-06	544302.4	3755554.8	288.5	0.00	1.70	0.76	YES
L0046115	0	0.12370E-06	544298.7	3755554.8	288.5	0.00	1.70	0.76	YES
L0046116	0	0.12370E-06	544295.0	3755554.8	288.6	0.00	1.70	0.76	YES
L0046117	0	0.12370E-06	544291.4	3755554.7	288.6	0.00	1.70	0.76	YES
L0046118	0	0.12370E-06	544287.7	3755554.7	288.6	0.00	1.70	0.76	YES
L0046119	0	0.12370E-06	544284.1	3755554.7	288.6	0.00	1.70	0.76	YES
L0046120	0	0.12370E-06	544280.4	3755554.7	288.6	0.00	1.70	0.76	YES
L0046121	0	0.12370E-06	544276.8	3755554.6	288.7	0.00	1.70	0.76	YES
L0046122	0	0.12370E-06	544273.1	3755554.6	288.7	0.00	1.70	0.76	YES
L0046123	0	0.12370E-06	544269.4	3755554.6	288.7	0.00	1.70	0.76	YES
L0046124	0	0.12370E-06	544265.8	3755554.6	288.7	0.00	1.70	0.76	YES
L0046125	0	0.12370E-06	544262.1	3755554.5	288.8	0.00	1.70	0.76	YES
L0046126	0	0.12370E-06	544258.5	3755554.5	288.8	0.00	1.70	0.76	YES
L0046127	0	0.12370E-06	544254.8	3755554.5	288.8	0.00	1.70	0.76	YES
L0046128	0	0.12370E-06	544251.1	3755554.4	288.8	0.00	1.70	0.76	YES
L0046129	0	0.12370E-06	544247.5	3755554.4	288.8	0.00	1.70	0.76	YES
L0046130	0	0.12370E-06	544243.8	3755554.4	288.9	0.00	1.70	0.76	YES
L0046131	0	0.12370E-06	544240.2	3755554.4	288.9	0.00	1.70	0.76	YES
L0046132	0	0.12370E-06	544236.5	3755554.3	288.9	0.00	1.70	0.76	YES
L0046133	0	0.12370E-06	544232.9	3755554.3	288.9	0.00	1.70	0.76	YES
L0046134	0	0.12370E-06	544229.2	3755554.3	288.9	0.00	1.70	0.76	YES
L0046135	0	0.12370E-06	544225.5	3755554.3	289.0	0.00	1.70	0.76	YES
L0046136	0	0.12370E-06	544221.9	3755554.2	289.0	0.00	1.70	0.76	YES
L0046137	0	0.12370E-06	544218.2	3755554.2	289.0	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER	EMISSION RATE	BASE	RELEASE	INIT.	INIT.	URBAN	EMISSION RATE

SOURCE ID	PART. CATS.	(GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE	SCALAR VARY BY
L0046138	0	0.12370E-06	544214.6	3755554.2	289.0	0.00	1.70	0.76	YES	
L0046139	0	0.12370E-06	544210.9	3755554.2	289.1	0.00	1.70	0.76	YES	
L0046140	0	0.12370E-06	544207.3	3755554.1	289.1	0.00	1.70	0.76	YES	
L0046141	0	0.12370E-06	544203.6	3755554.1	289.1	0.00	1.70	0.76	YES	
L0046142	0	0.12370E-06	544199.9	3755554.1	289.1	0.00	1.70	0.76	YES	
L0046143	0	0.12370E-06	544196.3	3755554.1	289.1	0.00	1.70	0.76	YES	
L0046144	0	0.12370E-06	544192.6	3755554.0	289.2	0.00	1.70	0.76	YES	
L0046145	0	0.12370E-06	544189.0	3755554.0	289.2	0.00	1.70	0.76	YES	
L0046146	0	0.12370E-06	544185.3	3755554.0	289.2	0.00	1.70	0.76	YES	
L0046147	0	0.12370E-06	544181.7	3755553.9	289.2	0.00	1.70	0.76	YES	
L0046148	0	0.12370E-06	544178.0	3755553.9	289.2	0.00	1.70	0.76	YES	
L0046149	0	0.12370E-06	544174.3	3755553.9	289.3	0.00	1.70	0.76	YES	
L0046150	0	0.12370E-06	544170.7	3755553.9	289.3	0.00	1.70	0.76	YES	
L0046151	0	0.12370E-06	544167.0	3755553.8	289.3	0.00	1.70	0.76	YES	
L0046152	0	0.12370E-06	544163.4	3755553.8	289.3	0.00	1.70	0.76	YES	
L0046153	0	0.12370E-06	544159.7	3755553.8	289.4	0.00	1.70	0.76	YES	
L0046154	0	0.12370E-06	544156.1	3755553.8	289.4	0.00	1.70	0.76	YES	
L0046155	0	0.12370E-06	544152.4	3755553.7	289.4	0.00	1.70	0.76	YES	
L0046156	0	0.12370E-06	544148.7	3755553.7	289.4	0.00	1.70	0.76	YES	
L0046157	0	0.12370E-06	544145.1	3755553.7	289.4	0.00	1.70	0.76	YES	
L0046158	0	0.12370E-06	544141.4	3755553.7	289.4	0.00	1.70	0.76	YES	
L0046159	0	0.12370E-06	544137.8	3755553.6	289.5	0.00	1.70	0.76	YES	
L0046160	0	0.12370E-06	544134.1	3755553.6	289.5	0.00	1.70	0.76	YES	
L0046161	0	0.12370E-06	544130.5	3755553.6	289.5	0.00	1.70	0.76	YES	
L0046162	0	0.12370E-06	544126.8	3755553.6	289.5	0.00	1.70	0.76	YES	
L0046163	0	0.12370E-06	544123.1	3755553.5	289.5	0.00	1.70	0.76	YES	
L0046164	0	0.12370E-06	544119.5	3755553.5	289.5	0.00	1.70	0.76	YES	
L0046165	0	0.12370E-06	544115.8	3755553.5	289.6	0.00	1.70	0.76	YES	
L0046166	0	0.12370E-06	544112.2	3755553.4	289.6	0.00	1.70	0.76	YES	
L0046167	0	0.12370E-06	544108.5	3755553.4	289.6	0.00	1.70	0.76	YES	
L0046168	0	0.12370E-06	544104.8	3755553.4	289.6	0.00	1.70	0.76	YES	
L0046169	0	0.12370E-06	544101.2	3755553.4	289.6	0.00	1.70	0.76	YES	
L0046170	0	0.12370E-06	544097.5	3755553.3	289.6	0.00	1.70	0.76	YES	
L0046171	0	0.12370E-06	544093.9	3755553.3	289.7	0.00	1.70	0.76	YES	
L0046172	0	0.12370E-06	544090.2	3755553.3	289.7	0.00	1.70	0.76	YES	
L0046173	0	0.12370E-06	544086.6	3755553.3	289.7	0.00	1.70	0.76	YES	
L0046174	0	0.12370E-06	544082.9	3755553.2	289.7	0.00	1.70	0.76	YES	
L0046175	0	0.12370E-06	544079.2	3755553.2	289.7	0.00	1.70	0.76	YES	
L0046176	0	0.12370E-06	544075.6	3755553.2	289.8	0.00	1.70	0.76	YES	
L0046177	0	0.12370E-06	544071.9	3755553.2	289.8	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046178	0	0.12370E-06	544068.3	3755553.1	289.8	0.00	1.70	0.76	YES	
L0046179	0	0.12370E-06	544064.6	3755553.1	289.8	0.00	1.70	0.76	YES	
L0046180	0	0.12370E-06	544061.0	3755553.1	289.8	0.00	1.70	0.76	YES	
L0046181	0	0.12370E-06	544057.3	3755553.1	289.9	0.00	1.70	0.76	YES	
L0046182	0	0.12370E-06	544053.6	3755553.0	289.9	0.00	1.70	0.76	YES	
L0046183	0	0.12370E-06	544050.0	3755553.0	289.9	0.00	1.70	0.76	YES	
L0046184	0	0.12370E-06	544046.3	3755553.0	289.9	0.00	1.70	0.76	YES	
L0046185	0	0.12370E-06	544042.7	3755552.9	289.9	0.00	1.70	0.76	YES	
L0046186	0	0.12370E-06	544039.0	3755552.9	289.9	0.00	1.70	0.76	YES	
L0046187	0	0.12370E-06	544035.4	3755552.9	289.9	0.00	1.70	0.76	YES	
L0046188	0	0.12370E-06	544031.7	3755552.9	290.0	0.00	1.70	0.76	YES	
L0046189	0	0.12370E-06	544028.0	3755552.8	290.0	0.00	1.70	0.76	YES	
L0046190	0	0.12370E-06	544024.4	3755552.8	290.0	0.00	1.70	0.76	YES	
L0046191	0	0.12370E-06	544020.7	3755552.8	290.1	0.00	1.70	0.76	YES	
L0046192	0	0.12370E-06	544017.1	3755552.8	290.1	0.00	1.70	0.76	YES	
L0046193	0	0.12370E-06	544013.4	3755552.7	290.1	0.00	1.70	0.76	YES	
L0046194	0	0.12370E-06	544009.8	3755552.7	290.1	0.00	1.70	0.76	YES	
L0046195	0	0.12370E-06	544006.1	3755552.7	290.2	0.00	1.70	0.76	YES	
L0046196	0	0.12370E-06	544002.4	3755552.7	290.2	0.00	1.70	0.76	YES	
L0046197	0	0.12370E-06	543998.8	3755552.6	290.2	0.00	1.70	0.76	YES	
L0046198	0	0.12370E-06	543995.1	3755552.6	290.2	0.00	1.70	0.76	YES	
L0046199	0	0.12370E-06	543991.5	3755552.6	290.2	0.00	1.70	0.76	YES	
L0046200	0	0.12370E-06	543987.8	3755552.6	290.3	0.00	1.70	0.76	YES	
L0046201	0	0.12370E-06	543984.2	3755552.5	290.3	0.00	1.70	0.76	YES	
L0046202	0	0.12370E-06	543980.5	3755552.5	290.3	0.00	1.70	0.76	YES	
L0046203	0	0.12370E-06	543976.8	3755552.5	290.3	0.00	1.70	0.76	YES	
L0046204	0	0.12370E-06	543973.2	3755552.4	290.3	0.00	1.70	0.76	YES	
L0046205	0	0.12370E-06	543969.5	3755552.4	290.3	0.00	1.70	0.76	YES	
L0046206	0	0.12370E-06	543965.9	3755552.4	290.3	0.00	1.70	0.76	YES	
L0046207	0	0.12370E-06	543962.2	3755552.4	290.3	0.00	1.70	0.76	YES	
L0046208	0	0.12370E-06	543958.5	3755552.3	290.4	0.00	1.70	0.76	YES	
L0046209	0	0.12370E-06	543954.9	3755552.3	290.4	0.00	1.70	0.76	YES	
L0046210	0	0.12370E-06	543951.2	3755552.3	290.4	0.00	1.70	0.76	YES	
L0046211	0	0.12370E-06	543947.6	3755552.3	290.5	0.00	1.70	0.76	YES	
L0046212	0	0.12370E-06	543943.9	3755552.2	290.5	0.00	1.70	0.76	YES	
L0046213	0	0.12370E-06	543940.3	3755552.2	290.5	0.00	1.70	0.76	YES	
L0046214	0	0.12370E-06	543936.6	3755552.2	290.6	0.00	1.70	0.76	YES	
L0046215	0	0.12370E-06	543932.9	3755552.2	290.6	0.00	1.70	0.76	YES	
L0046216	0	0.12370E-06	543929.3	3755552.3	290.6	0.00	1.70	0.76	YES	
L0046217	0	0.12370E-06	543925.6	3755552.4	290.6	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046218	0	0.12370E-06	543922.0	3755552.6	290.7	0.00	1.70	0.76	YES	
L0046219	0	0.12370E-06	543918.3	3755552.8	290.7	0.00	1.70	0.76	YES	
L0046220	0	0.12370E-06	543914.7	3755553.0	290.7	0.00	1.70	0.76	YES	
L0046221	0	0.12370E-06	543911.0	3755553.2	290.7	0.00	1.70	0.76	YES	
L0046222	0	0.12370E-06	543907.4	3755553.4	290.8	0.00	1.70	0.76	YES	
L0046223	0	0.12370E-06	543903.7	3755553.6	290.8	0.00	1.70	0.76	YES	
L0046224	0	0.12370E-06	543900.1	3755553.7	290.8	0.00	1.70	0.76	YES	
L0046225	0	0.12370E-06	543896.4	3755553.9	290.9	0.00	1.70	0.76	YES	
L0046226	0	0.12370E-06	543892.8	3755554.2	290.9	0.00	1.70	0.76	YES	
L0046227	0	0.12370E-06	543889.4	3755555.5	290.9	0.00	1.70	0.76	YES	
L0046228	0	0.12370E-06	543886.0	3755556.9	291.0	0.00	1.70	0.76	YES	
L0046229	0	0.12370E-06	543882.6	3755558.3	291.0	0.00	1.70	0.76	YES	
L0046230	0	0.12370E-06	543879.2	3755559.7	291.1	0.00	1.70	0.76	YES	
L0046231	0	0.12370E-06	543875.8	3755561.0	291.2	0.00	1.70	0.76	YES	
L0046232	0	0.12370E-06	543872.4	3755562.4	291.2	0.00	1.70	0.76	YES	
L0046233	0	0.12370E-06	543869.1	3755563.8	291.3	0.00	1.70	0.76	YES	
L0046234	0	0.12370E-06	543865.7	3755565.2	291.3	0.00	1.70	0.76	YES	
L0046235	0	0.12370E-06	543862.3	3755566.6	291.4	0.00	1.70	0.76	YES	
L0046236	0	0.12370E-06	543859.4	3755568.8	291.5	0.00	1.70	0.76	YES	
L0046237	0	0.12370E-06	543856.4	3755571.0	291.5	0.00	1.70	0.76	YES	
L0046238	0	0.12370E-06	543853.5	3755573.2	291.6	0.00	1.70	0.76	YES	
L0046239	0	0.12370E-06	543850.6	3755575.4	291.7	0.00	1.70	0.76	YES	
L0046240	0	0.12370E-06	543847.7	3755577.6	291.8	0.00	1.70	0.76	YES	
L0046241	0	0.12370E-06	543844.7	3755579.7	291.8	0.00	1.70	0.76	YES	
L0046242	0	0.12370E-06	543841.8	3755581.9	291.9	0.00	1.70	0.76	YES	
L0046243	0	0.12370E-06	543838.9	3755584.1	292.0	0.00	1.70	0.76	YES	
L0046244	0	0.12370E-06	543835.9	3755586.3	292.1	0.00	1.70	0.76	YES	
L0046245	0	0.12370E-06	543833.0	3755588.5	292.1	0.00	1.70	0.76	YES	
L0046246	0	0.12370E-06	543830.1	3755590.7	292.2	0.00	1.70	0.76	YES	
L0046247	0	0.12370E-06	543827.2	3755592.9	292.2	0.00	1.70	0.76	YES	
L0046248	0	0.12370E-06	543824.2	3755595.1	292.3	0.00	1.70	0.76	YES	
L0046249	0	0.12370E-06	543821.3	3755597.3	292.4	0.00	1.70	0.76	YES	
L0046250	0	0.12370E-06	543818.4	3755599.5	292.4	0.00	1.70	0.76	YES	
L0046251	0	0.12370E-06	543815.4	3755601.5	292.5	0.00	1.70	0.76	YES	
L0046252	0	0.12370E-06	543812.1	3755603.2	292.5	0.00	1.70	0.76	YES	
L0046253	0	0.12370E-06	543808.8	3755604.8	292.6	0.00	1.70	0.76	YES	
L0046254	0	0.12370E-06	543805.6	3755606.4	292.7	0.00	1.70	0.76	YES	
L0046255	0	0.12370E-06	543802.3	3755608.1	292.7	0.00	1.70	0.76	YES	
L0046256	0	0.12370E-06	543799.0	3755609.7	292.8	0.00	1.70	0.76	YES	
L0046257	0	0.12370E-06	543795.7	3755611.3	292.8	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046258	0	0.12370E-06	543792.5	3755613.0	292.9	0.00	1.70	0.76	YES	
L0046259	0	0.12370E-06	543789.2	3755614.6	292.9	0.00	1.70	0.76	YES	
L0046260	0	0.12370E-06	543785.9	3755616.2	293.0	0.00	1.70	0.76	YES	
L0046261	0	0.12370E-06	543782.6	3755617.9	293.0	0.00	1.70	0.76	YES	
L0046262	0	0.12370E-06	543779.4	3755619.5	293.1	0.00	1.70	0.76	YES	
L0046263	0	0.12370E-06	543776.0	3755620.8	293.1	0.00	1.70	0.76	YES	
L0046264	0	0.12370E-06	543772.5	3755621.9	293.2	0.00	1.70	0.76	YES	
L0046265	0	0.12370E-06	543769.0	3755622.9	293.2	0.00	1.70	0.76	YES	
L0046266	0	0.12370E-06	543765.4	3755623.9	293.3	0.00	1.70	0.76	YES	
L0046267	0	0.12370E-06	543761.9	3755624.9	293.4	0.00	1.70	0.76	YES	
L0046268	0	0.12370E-06	543758.4	3755625.9	293.4	0.00	1.70	0.76	YES	
L0046269	0	0.12370E-06	543754.9	3755627.0	293.5	0.00	1.70	0.76	YES	
L0046270	0	0.12370E-06	543751.4	3755628.0	293.5	0.00	1.70	0.76	YES	
L0046271	0	0.12370E-06	543747.9	3755629.0	293.6	0.00	1.70	0.76	YES	
L0046272	0	0.12370E-06	543744.4	3755630.0	293.6	0.00	1.70	0.76	YES	
L0046273	0	0.12370E-06	543740.8	3755630.9	293.6	0.00	1.70	0.76	YES	
L0046274	0	0.12370E-06	543737.2	3755630.9	293.7	0.00	1.70	0.76	YES	
L0046275	0	0.12370E-06	543733.5	3755630.9	293.7	0.00	1.70	0.76	YES	
L0046276	0	0.12370E-06	543729.9	3755630.9	293.7	0.00	1.70	0.76	YES	
L0046277	0	0.12370E-06	543726.2	3755630.9	293.7	0.00	1.70	0.76	YES	
L0046278	0	0.12370E-06	543722.5	3755631.0	293.8	0.00	1.70	0.76	YES	
L0046279	0	0.12370E-06	543718.9	3755631.0	293.8	0.00	1.70	0.76	YES	
L0046280	0	0.12370E-06	543715.2	3755631.0	293.8	0.00	1.70	0.76	YES	
L0046281	0	0.12370E-06	543711.6	3755631.0	293.8	0.00	1.70	0.76	YES	
L0046282	0	0.12370E-06	543707.9	3755631.0	293.8	0.00	1.70	0.76	YES	
L0046283	0	0.12370E-06	543704.3	3755631.1	293.9	0.00	1.70	0.76	YES	
L0046284	0	0.12370E-06	543700.6	3755631.1	293.9	0.00	1.70	0.76	YES	
L0046285	0	0.12370E-06	543696.9	3755631.1	293.9	0.00	1.70	0.76	YES	
L0046286	0	0.12370E-06	543693.3	3755631.1	293.9	0.00	1.70	0.76	YES	
L0046287	0	0.12370E-06	543689.6	3755631.1	294.0	0.00	1.70	0.76	YES	
L0046288	0	0.10770E-06	544361.2	3755546.1	288.0	0.00	1.70	0.76	YES	
L0046289	0	0.10770E-06	544361.2	3755542.5	287.9	0.00	1.70	0.76	YES	
L0046290	0	0.10770E-06	544361.2	3755538.8	287.9	0.00	1.70	0.76	YES	
L0046291	0	0.10770E-06	544361.2	3755535.2	287.8	0.00	1.70	0.76	YES	
L0046292	0	0.10770E-06	544361.3	3755531.5	287.8	0.00	1.70	0.76	YES	
L0046293	0	0.10770E-06	544361.3	3755527.9	287.8	0.00	1.70	0.76	YES	
L0046294	0	0.10770E-06	544361.3	3755524.2	287.7	0.00	1.70	0.76	YES	
L0046295	0	0.10770E-06	544361.3	3755520.5	287.6	0.00	1.70	0.76	YES	

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L0046296         0   0.10770E-06  544361.4 3755516.9   287.6     0.00     1.70     0.76     YES
L0046297         0   0.10770E-06  544361.4 3755513.2   287.5     0.00     1.70     0.76     YES

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 2nd 14 years                    ***        05/26/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 2nd 14 years                           ***        07:57:00
                                                                                                                    PAGE   8
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

             NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.   URBAN  EMISSION RATE
  SOURCE      PART.  (GRAMS/SEC)     X         Y      ELEV.   HEIGHT      SY       SZ     SOURCE  SCALAR VARY
    ID        CATS.                (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)             BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

L0046298         0   0.10770E-06  544361.4 3755509.6   287.5     0.00     1.70     0.76     YES
L0046299         0   0.10770E-06  544361.4 3755505.9   287.4     0.00     1.70     0.76     YES
L0046300         0   0.10770E-06  544361.5 3755502.2   287.4     0.00     1.70     0.76     YES
L0046301         0   0.10770E-06  544361.5 3755498.6   287.3     0.00     1.70     0.76     YES
L0046302         0   0.10770E-06  544361.5 3755494.9   287.2     0.00     1.70     0.76     YES
L0046303         0   0.10770E-06  544361.5 3755491.3   287.2     0.00     1.70     0.76     YES
L0046304         0   0.10770E-06  544361.6 3755487.6   287.1     0.00     1.70     0.76     YES
L0046305         0   0.10770E-06  544361.6 3755484.0   287.1     0.00     1.70     0.76     YES
L0046306         0   0.10770E-06  544361.6 3755480.3   287.0     0.00     1.70     0.76     YES
L0046307         0   0.10770E-06  544361.6 3755476.6   286.9     0.00     1.70     0.76     YES
L0046308         0   0.10770E-06  544361.7 3755473.0   286.9     0.00     1.70     0.76     YES
L0046309         0   0.10770E-06  544361.7 3755469.3   286.8     0.00     1.70     0.76     YES
L0046310         0   0.10770E-06  544361.7 3755465.7   286.8     0.00     1.70     0.76     YES
L0046311         0   0.10770E-06  544361.7 3755462.0   286.7     0.00     1.70     0.76     YES
L0046312         0   0.10770E-06  544361.8 3755458.4   286.6     0.00     1.70     0.76     YES
L0046313         0   0.10770E-06  544361.8 3755454.7   286.6     0.00     1.70     0.76     YES
L0046314         0   0.10770E-06  544361.8 3755451.0   286.5     0.00     1.70     0.76     YES
L0046315         0   0.10770E-06  544361.8 3755447.4   286.4     0.00     1.70     0.76     YES
L0046316         0   0.10770E-06  544361.9 3755443.7   286.4     0.00     1.70     0.76     YES
L0046317         0   0.10770E-06  544361.9 3755440.1   286.3     0.00     1.70     0.76     YES
L0046318         0   0.10770E-06  544361.9 3755436.4   286.2     0.00     1.70     0.76     YES
L0046319         0   0.10770E-06  544361.9 3755432.8   286.2     0.00     1.70     0.76     YES
L0046320         0   0.10770E-06  544362.0 3755429.1   286.1     0.00     1.70     0.76     YES
L0046321         0   0.10770E-06  544362.0 3755425.4   286.1     0.00     1.70     0.76     YES
L0046322         0   0.10770E-06  544362.0 3755421.8   286.0     0.00     1.70     0.76     YES
L0046323         0   0.10770E-06  544362.0 3755418.1   285.9     0.00     1.70     0.76     YES
L0046324         0   0.10770E-06  544362.1 3755414.5   285.9     0.00     1.70     0.76     YES
L0046325         0   0.10770E-06  544362.1 3755410.8   285.8     0.00     1.70     0.76     YES
L0046326         0   0.10770E-06  544362.1 3755407.2   285.7     0.00     1.70     0.76     YES
L0046327         0   0.10770E-06  544362.1 3755403.5   285.6     0.00     1.70     0.76     YES
L0046328         0   0.10770E-06  544362.2 3755399.8   285.6     0.00     1.70     0.76     YES
L0046329         0   0.10770E-06  544362.2 3755396.2   285.5     0.00     1.70     0.76     YES
L0046330         0   0.10770E-06  544362.2 3755392.5   285.4     0.00     1.70     0.76     YES
L0046331         0   0.10770E-06  544362.2 3755388.9   285.4     0.00     1.70     0.76     YES
L0046332         0   0.10770E-06  544362.3 3755385.2   285.3     0.00     1.70     0.76     YES
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L0046333	0	0.10770E-06	544362.3	3755381.6	285.2	0.00	1.70	0.76	YES	
L0046334	0	0.10770E-06	544362.3	3755377.9	285.2	0.00	1.70	0.76	YES	
L0046335	0	0.10770E-06	544362.3	3755374.2	285.1	0.00	1.70	0.76	YES	
L0046336	0	0.10770E-06	544362.4	3755370.6	285.0	0.00	1.70	0.76	YES	
L0046337	0	0.10770E-06	544362.4	3755366.9	285.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046338	0	0.10770E-06	544362.4	3755363.3	284.9	0.00	1.70	0.76	YES	
L0046339	0	0.10770E-06	544362.4	3755359.6	284.9	0.00	1.70	0.76	YES	
L0046340	0	0.10770E-06	544362.5	3755355.9	284.8	0.00	1.70	0.76	YES	
L0046341	0	0.10770E-06	544362.5	3755352.3	284.8	0.00	1.70	0.76	YES	
L0046342	0	0.10770E-06	544362.5	3755348.6	284.7	0.00	1.70	0.76	YES	
L0046343	0	0.10770E-06	544362.5	3755345.0	284.6	0.00	1.70	0.76	YES	
L0046344	0	0.10770E-06	544362.6	3755341.3	284.6	0.00	1.70	0.76	YES	
L0046345	0	0.10770E-06	544362.6	3755337.7	284.5	0.00	1.70	0.76	YES	
L0046346	0	0.10770E-06	544362.6	3755334.0	284.4	0.00	1.70	0.76	YES	
L0046347	0	0.10770E-06	544362.6	3755330.3	284.4	0.00	1.70	0.76	YES	
L0046348	0	0.10770E-06	544362.7	3755326.7	284.3	0.00	1.70	0.76	YES	
L0046349	0	0.10770E-06	544362.7	3755323.0	284.3	0.00	1.70	0.76	YES	
L0046350	0	0.10770E-06	544362.7	3755319.4	284.2	0.00	1.70	0.76	YES	
L0046351	0	0.10770E-06	544362.7	3755315.7	284.1	0.00	1.70	0.76	YES	
L0046352	0	0.10770E-06	544362.8	3755312.1	284.1	0.00	1.70	0.76	YES	
L0046353	0	0.10770E-06	544362.8	3755308.4	284.0	0.00	1.70	0.76	YES	
L0046354	0	0.10770E-06	544362.8	3755304.7	284.0	0.00	1.70	0.76	YES	
L0046355	0	0.10770E-06	544362.8	3755301.1	283.9	0.00	1.70	0.76	YES	
L0046356	0	0.10770E-06	544362.9	3755297.4	283.9	0.00	1.70	0.76	YES	
L0046357	0	0.10770E-06	544362.9	3755293.8	283.8	0.00	1.70	0.76	YES	
L0046358	0	0.10770E-06	544362.9	3755290.1	283.8	0.00	1.70	0.76	YES	
L0046359	0	0.10770E-06	544362.9	3755286.5	283.7	0.00	1.70	0.76	YES	
L0046360	0	0.10770E-06	544363.0	3755282.8	283.7	0.00	1.70	0.76	YES	
L0046361	0	0.10770E-06	544363.0	3755279.1	283.6	0.00	1.70	0.76	YES	
L0046362	0	0.10770E-06	544363.0	3755275.5	283.5	0.00	1.70	0.76	YES	
L0046363	0	0.10770E-06	544363.0	3755271.8	283.5	0.00	1.70	0.76	YES	
L0046364	0	0.10770E-06	544363.1	3755268.2	283.4	0.00	1.70	0.76	YES	
L0046365	0	0.10770E-06	544363.1	3755264.5	283.4	0.00	1.70	0.76	YES	
L0046366	0	0.10770E-06	544363.1	3755260.9	283.3	0.00	1.70	0.76	YES	
L0046367	0	0.10770E-06	544363.1	3755257.2	283.2	0.00	1.70	0.76	YES	
L0046368	0	0.10770E-06	544363.1	3755253.5	283.2	0.00	1.70	0.76	YES	
L0046369	0	0.10770E-06	544363.2	3755249.9	283.1	0.00	1.70	0.76	YES	

L0046370	0	0.10770E-06	544363.2	3755246.2	283.1	0.00	1.70	0.76	YES	
L0046371	0	0.10770E-06	544363.2	3755242.6	283.0	0.00	1.70	0.76	YES	
L0046372	0	0.10770E-06	544363.2	3755238.9	282.9	0.00	1.70	0.76	YES	
L0046373	0	0.10770E-06	544363.3	3755235.3	282.9	0.00	1.70	0.76	YES	
L0046374	0	0.10770E-06	544363.3	3755231.6	282.8	0.00	1.70	0.76	YES	
L0046375	0	0.10770E-06	544363.3	3755227.9	282.8	0.00	1.70	0.76	YES	
L0046376	0	0.10770E-06	544363.3	3755224.3	282.7	0.00	1.70	0.76	YES	
L0046377	0	0.10770E-06	544363.4	3755220.6	282.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046378	0	0.10770E-06	544363.4	3755217.0	282.6	0.00	1.70	0.76	YES	
L0046379	0	0.10770E-06	544363.4	3755213.3	282.5	0.00	1.70	0.76	YES	
L0046380	0	0.10770E-06	544363.4	3755209.6	282.5	0.00	1.70	0.76	YES	
L0046381	0	0.10770E-06	544363.5	3755206.0	282.4	0.00	1.70	0.76	YES	
L0046382	0	0.10770E-06	544363.5	3755202.3	282.4	0.00	1.70	0.76	YES	
L0046383	0	0.10770E-06	544363.5	3755198.7	282.3	0.00	1.70	0.76	YES	
L0046384	0	0.10770E-06	544363.5	3755195.0	282.3	0.00	1.70	0.76	YES	
L0046385	0	0.10770E-06	544363.6	3755191.4	282.2	0.00	1.70	0.76	YES	
L0046386	0	0.10770E-06	544363.6	3755187.7	282.2	0.00	1.70	0.76	YES	
L0046387	0	0.10770E-06	544363.6	3755184.0	282.1	0.00	1.70	0.76	YES	
L0046388	0	0.10770E-06	544363.6	3755180.4	282.0	0.00	1.70	0.76	YES	
L0046389	0	0.10770E-06	544363.7	3755176.7	282.0	0.00	1.70	0.76	YES	
L0046390	0	0.10770E-06	544363.7	3755173.1	281.9	0.00	1.70	0.76	YES	
L0046391	0	0.10770E-06	544363.7	3755169.4	281.9	0.00	1.70	0.76	YES	
L0046392	0	0.10770E-06	544363.7	3755165.8	281.8	0.00	1.70	0.76	YES	
L0046393	0	0.10770E-06	544363.8	3755162.1	281.7	0.00	1.70	0.76	YES	
L0046394	0	0.10770E-06	544363.8	3755158.4	281.7	0.00	1.70	0.76	YES	
L0046395	0	0.10770E-06	544363.8	3755154.8	281.6	0.00	1.70	0.76	YES	
L0046396	0	0.10770E-06	544363.8	3755151.1	281.6	0.00	1.70	0.76	YES	
L0046397	0	0.10770E-06	544363.9	3755147.5	281.5	0.00	1.70	0.76	YES	
L0046398	0	0.10770E-06	544363.9	3755143.8	281.4	0.00	1.70	0.76	YES	
L0046399	0	0.10770E-06	544363.9	3755140.2	281.4	0.00	1.70	0.76	YES	
L0046400	0	0.10770E-06	544363.9	3755136.5	281.3	0.00	1.70	0.76	YES	
L0046401	0	0.10770E-06	544364.0	3755132.8	281.3	0.00	1.70	0.76	YES	
L0046402	0	0.10770E-06	544364.0	3755129.2	281.2	0.00	1.70	0.76	YES	
L0046403	0	0.10770E-06	544364.0	3755125.5	281.1	0.00	1.70	0.76	YES	
L0046404	0	0.10770E-06	544364.0	3755121.9	281.1	0.00	1.70	0.76	YES	
L0046405	0	0.10770E-06	544364.1	3755118.2	281.0	0.00	1.70	0.76	YES	
L0046406	0	0.10770E-06	544364.1	3755114.6	280.9	0.00	1.70	0.76	YES	

L0046407	0	0.10770E-06	544364.1	3755110.9	280.8	0.00	1.70	0.76	YES
L0046408	0	0.10770E-06	544364.1	3755107.2	280.8	0.00	1.70	0.76	YES
L0046409	0	0.10770E-06	544364.2	3755103.6	280.7	0.00	1.70	0.76	YES
L0046410	0	0.10770E-06	544364.2	3755099.9	280.6	0.00	1.70	0.76	YES
L0046411	0	0.10770E-06	544364.2	3755096.3	280.5	0.00	1.70	0.76	YES
L0046412	0	0.10770E-06	544364.2	3755092.6	280.5	0.00	1.70	0.76	YES
L0046413	0	0.10770E-06	544364.3	3755089.0	280.4	0.00	1.70	0.76	YES
L0046414	0	0.10770E-06	544364.3	3755085.3	280.3	0.00	1.70	0.76	YES
L0046415	0	0.10770E-06	544364.3	3755081.6	280.2	0.00	1.70	0.76	YES
L0046416	0	0.10770E-06	544364.3	3755078.0	280.2	0.00	1.70	0.76	YES
L0046417	0	0.10770E-06	544364.4	3755074.3	280.1	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046418	0	0.10770E-06	544364.4	3755070.7	280.0	0.00	1.70	0.76	YES	
L0046419	0	0.10770E-06	544364.4	3755067.0	279.9	0.00	1.70	0.76	YES	
L0046420	0	0.10770E-06	544364.4	3755063.3	279.9	0.00	1.70	0.76	YES	
L0046421	0	0.10770E-06	544364.5	3755059.7	279.8	0.00	1.70	0.76	YES	
L0046422	0	0.10770E-06	544364.5	3755056.0	279.7	0.00	1.70	0.76	YES	
L0046423	0	0.10770E-06	544364.5	3755052.4	279.6	0.00	1.70	0.76	YES	
L0046424	0	0.10770E-06	544364.5	3755048.7	279.6	0.00	1.70	0.76	YES	
L0046425	0	0.10770E-06	544364.6	3755045.1	279.5	0.00	1.70	0.76	YES	
L0046426	0	0.10770E-06	544364.6	3755041.4	279.4	0.00	1.70	0.76	YES	
L0046427	0	0.10770E-06	544364.6	3755037.7	279.3	0.00	1.70	0.76	YES	
L0046428	0	0.10770E-06	544364.6	3755034.1	279.3	0.00	1.70	0.76	YES	
L0046429	0	0.10770E-06	544364.7	3755030.4	279.2	0.00	1.70	0.76	YES	
L0046430	0	0.10770E-06	544364.7	3755026.8	279.1	0.00	1.70	0.76	YES	
L0046431	0	0.10770E-06	544364.7	3755023.1	279.1	0.00	1.70	0.76	YES	
L0046432	0	0.10770E-06	544364.7	3755019.5	279.0	0.00	1.70	0.76	YES	
L0046433	0	0.10770E-06	544364.8	3755015.8	278.9	0.00	1.70	0.76	YES	
L0046434	0	0.10770E-06	544364.8	3755012.1	278.8	0.00	1.70	0.76	YES	
L0046435	0	0.10770E-06	544364.8	3755008.5	278.8	0.00	1.70	0.76	YES	
L0046436	0	0.10770E-06	544364.8	3755004.8	278.7	0.00	1.70	0.76	YES	
L0046437	0	0.10770E-06	544364.9	3755001.2	278.6	0.00	1.70	0.76	YES	
L0046438	0	0.10770E-06	544364.9	3754997.5	278.5	0.00	1.70	0.76	YES	
L0046439	0	0.10770E-06	544364.9	3754993.9	278.5	0.00	1.70	0.76	YES	
L0046440	0	0.10770E-06	544364.9	3754990.2	278.4	0.00	1.70	0.76	YES	
L0046441	0	0.10770E-06	544365.0	3754986.5	278.3	0.00	1.70	0.76	YES	
L0046442	0	0.10770E-06	544365.0	3754982.9	278.2	0.00	1.70	0.76	YES	
L0046443	0	0.10770E-06	544365.0	3754979.2	278.2	0.00	1.70	0.76	YES	

L0046444	0	0.10770E-06	544365.0	3754975.6	278.1	0.00	1.70	0.76	YES	
L0046445	0	0.10770E-06	544365.1	3754971.9	278.0	0.00	1.70	0.76	YES	
L0046446	0	0.10770E-06	544365.1	3754968.3	277.9	0.00	1.70	0.76	YES	
L0046447	0	0.10770E-06	544365.1	3754964.6	277.9	0.00	1.70	0.76	YES	
L0046448	0	0.10770E-06	544365.1	3754960.9	277.8	0.00	1.70	0.76	YES	
L0046449	0	0.10770E-06	544365.2	3754957.3	277.7	0.00	1.70	0.76	YES	
L0046450	0	0.10770E-06	544365.2	3754953.6	277.7	0.00	1.70	0.76	YES	
L0046451	0	0.10770E-06	544365.2	3754950.0	277.6	0.00	1.70	0.76	YES	
L0046452	0	0.10770E-06	544365.2	3754946.3	277.5	0.00	1.70	0.76	YES	
L0046453	0	0.10770E-06	544365.2	3754942.6	277.4	0.00	1.70	0.76	YES	
L0046454	0	0.10770E-06	544365.3	3754939.0	277.4	0.00	1.70	0.76	YES	
L0046455	0	0.10770E-06	544365.3	3754935.3	277.3	0.00	1.70	0.76	YES	
L0046456	0	0.10770E-06	544365.3	3754931.7	277.2	0.00	1.70	0.76	YES	
L0046457	0	0.10770E-06	544365.3	3754928.0	277.1	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046458	0	0.10770E-06	544365.4	3754924.4	277.1	0.00	1.70	0.76	YES	
L0046459	0	0.10770E-06	544365.4	3754920.7	277.0	0.00	1.70	0.76	YES	
L0046460	0	0.10770E-06	544365.4	3754917.0	276.9	0.00	1.70	0.76	YES	
L0046461	0	0.10770E-06	544365.4	3754913.4	276.9	0.00	1.70	0.76	YES	
L0046462	0	0.10770E-06	544365.5	3754909.7	276.8	0.00	1.70	0.76	YES	
L0046463	0	0.10770E-06	544365.5	3754906.1	276.7	0.00	1.70	0.76	YES	
L0046464	0	0.10770E-06	544365.5	3754902.4	276.6	0.00	1.70	0.76	YES	
L0046465	0	0.10770E-06	544365.5	3754898.8	276.6	0.00	1.70	0.76	YES	
L0046466	0	0.10770E-06	544365.6	3754895.1	276.5	0.00	1.70	0.76	YES	
L0046467	0	0.10770E-06	544365.6	3754891.4	276.4	0.00	1.70	0.76	YES	
L0046468	0	0.10770E-06	544365.6	3754887.8	276.4	0.00	1.70	0.76	YES	
L0046469	0	0.10770E-06	544365.6	3754884.1	276.3	0.00	1.70	0.76	YES	
L0046470	0	0.10770E-06	544365.7	3754880.5	276.2	0.00	1.70	0.76	YES	
L0046471	0	0.10770E-06	544365.7	3754876.8	276.1	0.00	1.70	0.76	YES	
L0046472	0	0.10770E-06	544365.7	3754873.2	276.1	0.00	1.70	0.76	YES	
L0046473	0	0.10770E-06	544365.7	3754869.5	276.0	0.00	1.70	0.76	YES	
L0046474	0	0.10770E-06	544365.8	3754865.8	275.9	0.00	1.70	0.76	YES	
L0046475	0	0.10770E-06	544365.8	3754862.2	275.9	0.00	1.70	0.76	YES	
L0046476	0	0.10770E-06	544365.8	3754858.5	275.8	0.00	1.70	0.76	YES	
L0046477	0	0.10770E-06	544365.8	3754854.9	275.7	0.00	1.70	0.76	YES	
L0046478	0	0.10770E-06	544365.9	3754851.2	275.6	0.00	1.70	0.76	YES	
L0046479	0	0.10770E-06	544365.9	3754847.6	275.6	0.00	1.70	0.76	YES	
L0046480	0	0.10770E-06	544365.9	3754843.9	275.5	0.00	1.70	0.76	YES	

L0046481	0	0.10770E-06	544365.9	3754840.2	275.4	0.00	1.70	0.76	YES	
L0046482	0	0.10770E-06	544366.0	3754836.6	275.4	0.00	1.70	0.76	YES	
L0046483	0	0.10770E-06	544366.0	3754832.9	275.3	0.00	1.70	0.76	YES	
L0046484	0	0.10770E-06	544366.0	3754829.3	275.2	0.00	1.70	0.76	YES	
L0046485	0	0.10770E-06	544366.0	3754825.6	275.2	0.00	1.70	0.76	YES	
L0046486	0	0.10770E-06	544366.1	3754822.0	275.1	0.00	1.70	0.76	YES	
L0046487	0	0.10770E-06	544366.1	3754818.3	275.0	0.00	1.70	0.76	YES	
L0046488	0	0.10770E-06	544366.1	3754814.6	275.0	0.00	1.70	0.76	YES	
L0046489	0	0.10770E-06	544366.1	3754811.0	274.9	0.00	1.70	0.76	YES	
L0046490	0	0.10770E-06	544366.2	3754807.3	274.8	0.00	1.70	0.76	YES	
L0046491	0	0.10770E-06	544366.2	3754803.7	274.8	0.00	1.70	0.76	YES	
L0046492	0	0.10770E-06	544366.2	3754800.0	274.7	0.00	1.70	0.76	YES	
L0046493	0	0.10770E-06	544366.2	3754796.3	274.6	0.00	1.70	0.76	YES	
L0046494	0	0.10770E-06	544366.3	3754792.7	274.6	0.00	1.70	0.76	YES	
L0046495	0	0.10770E-06	544366.3	3754789.0	274.5	0.00	1.70	0.76	YES	
L0046496	0	0.10770E-06	544366.3	3754785.4	274.5	0.00	1.70	0.76	YES	
L0046497	0	0.10770E-06	544366.3	3754781.7	274.4	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046498	0	0.10770E-06	544366.4	3754778.1	274.4	0.00	1.70	0.76	YES	
L0046499	0	0.10770E-06	544366.4	3754774.4	274.3	0.00	1.70	0.76	YES	
L0046500	0	0.10770E-06	544366.4	3754770.7	274.2	0.00	1.70	0.76	YES	
L0046501	0	0.10770E-06	544366.4	3754767.1	274.2	0.00	1.70	0.76	YES	
L0046502	0	0.10770E-06	544366.5	3754763.4	274.1	0.00	1.70	0.76	YES	
L0046503	0	0.10770E-06	544366.5	3754759.8	274.1	0.00	1.70	0.76	YES	
L0046504	0	0.10770E-06	544366.5	3754756.1	274.0	0.00	1.70	0.76	YES	
L0046505	0	0.10770E-06	544366.5	3754752.5	273.9	0.00	1.70	0.76	YES	
L0046506	0	0.10770E-06	544366.6	3754748.8	273.9	0.00	1.70	0.76	YES	
L0046507	0	0.10770E-06	544366.6	3754745.1	273.8	0.00	1.70	0.76	YES	
L0046508	0	0.10790E-06	543903.0	3755545.1	290.6	0.00	1.70	0.76	YES	
L0046509	0	0.10790E-06	543901.8	3755541.6	290.6	0.00	1.70	0.76	YES	
L0046510	0	0.10790E-06	543900.6	3755538.1	290.5	0.00	1.70	0.76	YES	
L0046511	0	0.10790E-06	543899.5	3755534.7	290.5	0.00	1.70	0.76	YES	
L0046512	0	0.10790E-06	543898.3	3755531.2	290.4	0.00	1.70	0.76	YES	
L0046513	0	0.10790E-06	543897.1	3755527.7	290.4	0.00	1.70	0.76	YES	
L0046514	0	0.10790E-06	543896.0	3755524.3	290.3	0.00	1.70	0.76	YES	
L0046515	0	0.10790E-06	543894.8	3755520.8	290.2	0.00	1.70	0.76	YES	
L0046516	0	0.10790E-06	543893.7	3755517.3	290.2	0.00	1.70	0.76	YES	
L0046517	0	0.10790E-06	543893.7	3755513.7	290.1	0.00	1.70	0.76	YES	

L0046518	0	0.10790E-06	543893.7	3755510.0	290.0	0.00	1.70	0.76	YES
L0046519	0	0.10790E-06	543893.7	3755506.4	289.9	0.00	1.70	0.76	YES
L0046520	0	0.10790E-06	543893.8	3755502.7	289.8	0.00	1.70	0.76	YES
L0046521	0	0.10790E-06	543893.8	3755499.1	289.8	0.00	1.70	0.76	YES
L0046522	0	0.10790E-06	543893.8	3755495.4	289.7	0.00	1.70	0.76	YES
L0046523	0	0.10790E-06	543893.8	3755491.7	289.6	0.00	1.70	0.76	YES
L0046524	0	0.10790E-06	543893.8	3755488.1	289.5	0.00	1.70	0.76	YES
L0046525	0	0.10790E-06	543893.8	3755484.4	289.4	0.00	1.70	0.76	YES
L0046526	0	0.10790E-06	543893.8	3755480.8	289.4	0.00	1.70	0.76	YES
L0046527	0	0.10790E-06	543893.9	3755477.1	289.3	0.00	1.70	0.76	YES
L0046528	0	0.10790E-06	543893.9	3755473.4	289.2	0.00	1.70	0.76	YES
L0046529	0	0.10790E-06	543893.9	3755469.8	289.1	0.00	1.70	0.76	YES
L0046530	0	0.10790E-06	543893.9	3755466.1	289.1	0.00	1.70	0.76	YES
L0046531	0	0.10790E-06	543893.9	3755462.5	289.0	0.00	1.70	0.76	YES
L0046532	0	0.10790E-06	543893.9	3755458.8	288.9	0.00	1.70	0.76	YES
L0046533	0	0.10790E-06	543894.0	3755455.2	288.8	0.00	1.70	0.76	YES
L0046534	0	0.10790E-06	543894.0	3755451.5	288.8	0.00	1.70	0.76	YES
L0046535	0	0.10790E-06	543894.0	3755447.8	288.7	0.00	1.70	0.76	YES
L0046536	0	0.10790E-06	543894.0	3755444.2	288.6	0.00	1.70	0.76	YES
L0046537	0	0.10790E-06	543894.0	3755440.5	288.5	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046538	0	0.10790E-06	543894.0	3755436.9	288.4	0.00	1.70	0.76	YES	
L0046539	0	0.10790E-06	543894.0	3755433.2	288.4	0.00	1.70	0.76	YES	
L0046540	0	0.10790E-06	543894.1	3755429.6	288.3	0.00	1.70	0.76	YES	
L0046541	0	0.10790E-06	543894.1	3755425.9	288.2	0.00	1.70	0.76	YES	
L0046542	0	0.10790E-06	543894.1	3755422.2	288.1	0.00	1.70	0.76	YES	
L0046543	0	0.10790E-06	543894.1	3755418.6	288.1	0.00	1.70	0.76	YES	
L0046544	0	0.10790E-06	543894.1	3755414.9	288.0	0.00	1.70	0.76	YES	
L0046545	0	0.10790E-06	543894.1	3755411.3	287.9	0.00	1.70	0.76	YES	
L0046546	0	0.10790E-06	543894.2	3755407.6	287.8	0.00	1.70	0.76	YES	
L0046547	0	0.10790E-06	543894.2	3755404.0	287.8	0.00	1.70	0.76	YES	
L0046548	0	0.10790E-06	543894.2	3755400.3	287.7	0.00	1.70	0.76	YES	
L0046549	0	0.10790E-06	543894.2	3755396.6	287.6	0.00	1.70	0.76	YES	
L0046550	0	0.10790E-06	543894.2	3755393.0	287.5	0.00	1.70	0.76	YES	
L0046551	0	0.10790E-06	543894.2	3755389.3	287.5	0.00	1.70	0.76	YES	
L0046552	0	0.10790E-06	543894.2	3755385.7	287.4	0.00	1.70	0.76	YES	
L0046553	0	0.10790E-06	543894.3	3755382.0	287.3	0.00	1.70	0.76	YES	
L0046554	0	0.10790E-06	543894.3	3755378.4	287.3	0.00	1.70	0.76	YES	

L0046555	0	0.10790E-06	543894.3	3755374.7	287.2	0.00	1.70	0.76	YES
L0046556	0	0.10790E-06	543894.3	3755371.0	287.1	0.00	1.70	0.76	YES
L0046557	0	0.10790E-06	543894.3	3755367.4	287.1	0.00	1.70	0.76	YES
L0046558	0	0.10790E-06	543894.3	3755363.7	287.0	0.00	1.70	0.76	YES
L0046559	0	0.10790E-06	543894.4	3755360.1	287.0	0.00	1.70	0.76	YES
L0046560	0	0.10790E-06	543894.4	3755356.4	286.9	0.00	1.70	0.76	YES
L0046561	0	0.10790E-06	543894.4	3755352.8	286.9	0.00	1.70	0.76	YES
L0046562	0	0.10790E-06	543894.4	3755349.1	286.8	0.00	1.70	0.76	YES
L0046563	0	0.10790E-06	543894.4	3755345.4	286.8	0.00	1.70	0.76	YES
L0046564	0	0.10790E-06	543894.4	3755341.8	286.7	0.00	1.70	0.76	YES
L0046565	0	0.10790E-06	543894.5	3755338.1	286.7	0.00	1.70	0.76	YES
L0046566	0	0.10790E-06	543894.5	3755334.5	286.6	0.00	1.70	0.76	YES
L0046567	0	0.10790E-06	543894.5	3755330.8	286.5	0.00	1.70	0.76	YES
L0046568	0	0.10790E-06	543894.5	3755327.1	286.5	0.00	1.70	0.76	YES
L0046569	0	0.10790E-06	543894.5	3755323.5	286.4	0.00	1.70	0.76	YES
L0046570	0	0.10790E-06	543894.5	3755319.8	286.4	0.00	1.70	0.76	YES
L0046571	0	0.10790E-06	543894.3	3755316.2	286.3	0.00	1.70	0.76	YES
L0046572	0	0.10790E-06	543894.7	3755312.6	286.2	0.00	1.70	0.76	YES
L0046573	0	0.10790E-06	543896.4	3755309.4	286.2	0.00	1.70	0.76	YES
L0046574	0	0.10790E-06	543898.1	3755306.2	286.1	0.00	1.70	0.76	YES
L0046575	0	0.10790E-06	543899.8	3755302.9	286.1	0.00	1.70	0.76	YES
L0046576	0	0.10790E-06	543901.5	3755299.7	286.0	0.00	1.70	0.76	YES
L0046577	0	0.10790E-06	543903.2	3755296.5	285.9	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046578	0	0.10790E-06	543904.9	3755293.2	285.9	0.00	1.70	0.76	YES	
L0046579	0	0.10790E-06	543906.6	3755290.0	285.8	0.00	1.70	0.76	YES	
L0046580	0	0.10790E-06	543908.3	3755286.7	285.7	0.00	1.70	0.76	YES	
L0046581	0	0.10790E-06	543910.0	3755283.5	285.7	0.00	1.70	0.76	YES	
L0046582	0	0.10790E-06	543911.7	3755280.3	285.6	0.00	1.70	0.76	YES	
L0046583	0	0.10790E-06	543913.4	3755277.0	285.6	0.00	1.70	0.76	YES	
L0046584	0	0.10790E-06	543915.1	3755273.8	285.5	0.00	1.70	0.76	YES	
L0046585	0	0.10790E-06	543916.8	3755270.5	285.4	0.00	1.70	0.76	YES	
L0046586	0	0.10790E-06	543918.5	3755267.3	285.4	0.00	1.70	0.76	YES	
L0046587	0	0.10790E-06	543920.2	3755264.1	285.3	0.00	1.70	0.76	YES	
L0046588	0	0.10790E-06	543921.9	3755260.8	285.3	0.00	1.70	0.76	YES	
L0046589	0	0.10790E-06	543923.6	3755257.6	285.2	0.00	1.70	0.76	YES	
L0046590	0	0.10790E-06	543925.3	3755254.4	285.2	0.00	1.70	0.76	YES	
L0046591	0	0.10790E-06	543927.0	3755251.1	285.1	0.00	1.70	0.76	YES	

L0046592	0	0.10790E-06	543928.7	3755247.9	285.1	0.00	1.70	0.76	YES	
L0046593	0	0.10790E-06	543930.4	3755244.6	285.0	0.00	1.70	0.76	YES	
L0046594	0	0.10790E-06	543932.1	3755241.4	284.9	0.00	1.70	0.76	YES	
L0046595	0	0.10790E-06	543933.8	3755238.2	284.9	0.00	1.70	0.76	YES	
L0046596	0	0.10790E-06	543935.5	3755234.9	284.8	0.00	1.70	0.76	YES	
L0046597	0	0.10790E-06	543937.2	3755231.7	284.8	0.00	1.70	0.76	YES	
L0046598	0	0.10790E-06	543938.9	3755228.5	284.7	0.00	1.70	0.76	YES	
L0046599	0	0.10790E-06	543940.6	3755225.2	284.6	0.00	1.70	0.76	YES	
L0046600	0	0.10790E-06	543942.3	3755222.0	284.6	0.00	1.70	0.76	YES	
L0046601	0	0.10790E-06	543944.0	3755218.7	284.5	0.00	1.70	0.76	YES	
L0046602	0	0.10790E-06	543945.7	3755215.5	284.4	0.00	1.70	0.76	YES	
L0046603	0	0.10790E-06	543947.4	3755212.3	284.4	0.00	1.70	0.76	YES	
L0046604	0	0.10790E-06	543949.2	3755209.0	284.3	0.00	1.70	0.76	YES	
L0046605	0	0.10790E-06	543951.0	3755205.9	284.2	0.00	1.70	0.76	YES	
L0046606	0	0.10790E-06	543952.8	3755202.7	284.1	0.00	1.70	0.76	YES	
L0046607	0	0.10790E-06	543954.6	3755199.5	284.0	0.00	1.70	0.76	YES	
L0046608	0	0.10790E-06	543956.4	3755196.3	283.9	0.00	1.70	0.76	YES	
L0046609	0	0.10790E-06	543958.2	3755193.2	283.8	0.00	1.70	0.76	YES	
L0046610	0	0.10790E-06	543960.1	3755190.0	283.7	0.00	1.70	0.76	YES	
L0046611	0	0.10790E-06	543961.9	3755186.8	283.6	0.00	1.70	0.76	YES	
L0046612	0	0.10790E-06	543963.7	3755183.6	283.5	0.00	1.70	0.76	YES	
L0046613	0	0.10790E-06	543965.5	3755180.4	283.4	0.00	1.70	0.76	YES	
L0046614	0	0.10790E-06	543967.3	3755177.3	283.3	0.00	1.70	0.76	YES	
L0046615	0	0.10790E-06	543969.1	3755174.1	283.2	0.00	1.70	0.76	YES	
L0046616	0	0.10790E-06	543970.9	3755170.9	283.2	0.00	1.70	0.76	YES	
L0046617	0	0.10790E-06	543972.7	3755167.7	283.1	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046618	0	0.10790E-06	543974.5	3755164.6	283.0	0.00	1.70	0.76	YES	
L0046619	0	0.10790E-06	543976.3	3755161.4	282.9	0.00	1.70	0.76	YES	
L0046620	0	0.10790E-06	543978.2	3755158.2	282.8	0.00	1.70	0.76	YES	
L0046621	0	0.10790E-06	543980.0	3755155.0	282.7	0.00	1.70	0.76	YES	
L0046622	0	0.10790E-06	543981.8	3755151.8	282.6	0.00	1.70	0.76	YES	
L0046623	0	0.10790E-06	543983.6	3755148.7	282.4	0.00	1.70	0.76	YES	
L0046624	0	0.10790E-06	543985.4	3755145.5	282.3	0.00	1.70	0.76	YES	
L0046625	0	0.10790E-06	543987.2	3755142.3	282.2	0.00	1.70	0.76	YES	
L0046626	0	0.10790E-06	543989.0	3755139.1	282.1	0.00	1.70	0.76	YES	
L0046627	0	0.10790E-06	543990.8	3755135.9	281.9	0.00	1.70	0.76	YES	
L0046628	0	0.10790E-06	543992.6	3755132.8	281.9	0.00	1.70	0.76	YES	

L0046629	0	0.10790E-06	543994.4	3755129.6	281.8	0.00	1.70	0.76	YES
L0046630	0	0.10790E-06	543996.3	3755126.4	281.7	0.00	1.70	0.76	YES
L0046631	0	0.10790E-06	543998.1	3755123.2	281.7	0.00	1.70	0.76	YES
L0046632	0	0.10790E-06	543999.9	3755120.1	281.7	0.00	1.70	0.76	YES
L0046633	0	0.10790E-06	544001.7	3755116.9	281.6	0.00	1.70	0.76	YES
L0046634	0	0.10790E-06	544003.5	3755113.7	281.6	0.00	1.70	0.76	YES
L0046635	0	0.10790E-06	544005.3	3755110.5	281.6	0.00	1.70	0.76	YES
L0046636	0	0.10790E-06	544007.1	3755107.3	281.5	0.00	1.70	0.76	YES
L0046637	0	0.10790E-06	544008.9	3755104.2	281.5	0.00	1.70	0.76	YES
L0046638	0	0.10790E-06	544010.7	3755101.0	281.5	0.00	1.70	0.76	YES
L0046639	0	0.10790E-06	544012.6	3755097.8	281.4	0.00	1.70	0.76	YES
L0046640	0	0.10790E-06	544015.6	3755096.8	281.4	0.00	1.70	0.76	YES
L0046641	0	0.10790E-06	544019.3	3755096.9	281.4	0.00	1.70	0.76	YES
L0046642	0	0.10790E-06	544023.0	3755096.9	281.5	0.00	1.70	0.76	YES
L0046643	0	0.10790E-06	544026.6	3755097.0	281.5	0.00	1.70	0.76	YES
L0046644	0	0.10790E-06	544030.3	3755097.0	281.5	0.00	1.70	0.76	YES
L0046645	0	0.10790E-06	544033.9	3755097.1	281.5	0.00	1.70	0.76	YES
L0046646	0	0.10790E-06	544037.6	3755097.1	281.5	0.00	1.70	0.76	YES
L0046647	0	0.10790E-06	544041.2	3755097.2	281.5	0.00	1.70	0.76	YES
L0046648	0	0.10790E-06	544044.9	3755097.3	281.5	0.00	1.70	0.76	YES
L0046649	0	0.10790E-06	544048.6	3755097.3	281.5	0.00	1.70	0.76	YES
L0046650	0	0.10790E-06	544052.2	3755097.4	281.5	0.00	1.70	0.76	YES
L0046651	0	0.10790E-06	544055.9	3755097.4	281.5	0.00	1.70	0.76	YES
L0046652	0	0.10790E-06	544059.5	3755097.5	281.5	0.00	1.70	0.76	YES
L0046653	0	0.10790E-06	544063.2	3755097.5	281.5	0.00	1.70	0.76	YES
L0046654	0	0.10790E-06	544066.8	3755097.6	281.5	0.00	1.70	0.76	YES
L0046655	0	0.10790E-06	544070.5	3755097.6	281.5	0.00	1.70	0.76	YES
L0046656	0	0.10790E-06	544074.2	3755097.7	281.5	0.00	1.70	0.76	YES
L0046657	0	0.10790E-06	544077.8	3755097.7	281.5	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046658	0	0.10790E-06	544081.5	3755097.8	281.5	0.00	1.70	0.76	YES	
L0046659	0	0.10790E-06	544085.1	3755097.8	281.5	0.00	1.70	0.76	YES	
L0046660	0	0.10790E-06	544088.8	3755097.9	281.5	0.00	1.70	0.76	YES	
L0046661	0	0.10790E-06	544092.4	3755097.9	281.5	0.00	1.70	0.76	YES	
L0046662	0	0.10790E-06	544095.1	3755097.0	281.5	0.00	1.70	0.76	YES	
L0046663	0	0.10790E-06	544095.1	3755093.3	281.4	0.00	1.70	0.76	YES	
L0046664	0	0.10790E-06	544095.1	3755089.7	281.4	0.00	1.70	0.76	YES	
L0046665	0	0.10790E-06	544095.1	3755086.0	281.3	0.00	1.70	0.76	YES	

L0046666	0	0.10790E-06	544095.1	3755082.3	281.3	0.00	1.70	0.76	YES
L0046667	0	0.10790E-06	544095.1	3755078.7	281.2	0.00	1.70	0.76	YES
L0046668	0	0.10790E-06	544095.1	3755075.0	281.1	0.00	1.70	0.76	YES
L0046669	0	0.10790E-06	544095.1	3755071.4	281.1	0.00	1.70	0.76	YES
L0046670	0	0.10790E-06	544095.1	3755067.7	281.0	0.00	1.70	0.76	YES
L0046671	0	0.10790E-06	544095.1	3755064.1	280.9	0.00	1.70	0.76	YES
L0046672	0	0.10790E-06	544095.0	3755060.4	280.9	0.00	1.70	0.76	YES
L0046673	0	0.10790E-06	544095.0	3755056.7	280.8	0.00	1.70	0.76	YES
L0046674	0	0.10790E-06	544095.0	3755053.1	280.7	0.00	1.70	0.76	YES
L0046675	0	0.10790E-06	544095.0	3755049.4	280.7	0.00	1.70	0.76	YES
L0046676	0	0.10790E-06	544095.0	3755045.8	280.6	0.00	1.70	0.76	YES
L0046677	0	0.10790E-06	544095.0	3755042.1	280.5	0.00	1.70	0.76	YES
L0046678	0	0.10790E-06	544095.0	3755038.5	280.4	0.00	1.70	0.76	YES
L0046679	0	0.10790E-06	544095.0	3755034.8	280.4	0.00	1.70	0.76	YES
L0046680	0	0.10790E-06	544095.0	3755031.1	280.3	0.00	1.70	0.76	YES
L0046681	0	0.10790E-06	544095.0	3755027.5	280.2	0.00	1.70	0.76	YES
L0046682	0	0.10790E-06	544095.0	3755023.8	280.1	0.00	1.70	0.76	YES
L0046683	0	0.10790E-06	544095.0	3755020.2	280.1	0.00	1.70	0.76	YES
L0046684	0	0.10790E-06	544095.0	3755016.5	280.0	0.00	1.70	0.76	YES
L0046685	0	0.10790E-06	544095.0	3755012.9	279.9	0.00	1.70	0.76	YES
L0046686	0	0.10790E-06	544095.0	3755009.2	279.8	0.00	1.70	0.76	YES
L0046687	0	0.10790E-06	544095.0	3755005.5	279.8	0.00	1.70	0.76	YES
L0046688	0	0.10790E-06	544095.0	3755001.9	279.7	0.00	1.70	0.76	YES
L0046689	0	0.10790E-06	544095.0	3754998.2	279.6	0.00	1.70	0.76	YES
L0046690	0	0.10790E-06	544094.9	3754994.6	279.6	0.00	1.70	0.76	YES
L0046691	0	0.10790E-06	544094.9	3754990.9	279.5	0.00	1.70	0.76	YES
L0046692	0	0.10790E-06	544094.9	3754987.3	279.4	0.00	1.70	0.76	YES
L0046693	0	0.10790E-06	544094.9	3754983.6	279.3	0.00	1.70	0.76	YES
L0046694	0	0.10790E-06	544094.9	3754979.9	279.2	0.00	1.70	0.76	YES
L0046695	0	0.10790E-06	544094.9	3754976.3	279.2	0.00	1.70	0.76	YES
L0046696	0	0.10790E-06	544094.9	3754972.6	279.1	0.00	1.70	0.76	YES
L0046697	0	0.10790E-06	544094.9	3754969.0	279.1	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046698	0	0.10790E-06	544094.9	3754965.3	279.0	0.00	1.70	0.76	YES	
L0046699	0	0.10790E-06	544094.9	3754961.6	278.9	0.00	1.70	0.76	YES	
L0046700	0	0.10790E-06	544094.9	3754958.0	278.9	0.00	1.70	0.76	YES	
L0046701	0	0.10790E-06	544094.9	3754954.3	278.8	0.00	1.70	0.76	YES	
L0046702	0	0.10790E-06	544094.9	3754950.7	278.7	0.00	1.70	0.76	YES	

L0046703	0	0.10790E-06	544094.9	3754947.0	278.7	0.00	1.70	0.76	YES	
L0046704	0	0.10790E-06	544094.9	3754943.4	278.6	0.00	1.70	0.76	YES	
L0046705	0	0.10790E-06	544094.9	3754939.7	278.6	0.00	1.70	0.76	YES	
L0046706	0	0.10790E-06	544094.9	3754936.0	278.5	0.00	1.70	0.76	YES	
L0046707	0	0.10790E-06	544094.9	3754932.4	278.4	0.00	1.70	0.76	YES	
L0046708	0	0.10790E-06	544094.8	3754928.7	278.4	0.00	1.70	0.76	YES	
L0046709	0	0.10790E-06	544094.8	3754925.1	278.3	0.00	1.70	0.76	YES	
L0046710	0	0.10790E-06	544094.8	3754921.4	278.2	0.00	1.70	0.76	YES	
L0046711	0	0.10790E-06	544094.8	3754917.8	278.2	0.00	1.70	0.76	YES	
L0046712	0	0.10790E-06	544094.8	3754914.1	278.1	0.00	1.70	0.76	YES	
L0046713	0	0.10790E-06	544094.8	3754910.4	278.1	0.00	1.70	0.76	YES	
L0046714	0	0.10790E-06	544094.8	3754906.8	278.0	0.00	1.70	0.76	YES	
L0046715	0	0.10790E-06	544094.8	3754903.1	277.9	0.00	1.70	0.76	YES	
L0046716	0	0.10790E-06	544094.8	3754899.5	277.9	0.00	1.70	0.76	YES	
L0046717	0	0.10790E-06	544094.8	3754895.8	277.8	0.00	1.70	0.76	YES	
L0046718	0	0.10790E-06	544094.8	3754892.2	277.7	0.00	1.70	0.76	YES	
L0046719	0	0.10790E-06	544094.8	3754888.5	277.6	0.00	1.70	0.76	YES	
L0046720	0	0.10790E-06	544094.8	3754884.8	277.6	0.00	1.70	0.76	YES	
L0046721	0	0.10790E-06	544094.8	3754881.2	277.5	0.00	1.70	0.76	YES	
L0046722	0	0.10790E-06	544094.8	3754877.5	277.4	0.00	1.70	0.76	YES	
L0046723	0	0.10790E-06	544094.8	3754873.9	277.4	0.00	1.70	0.76	YES	
L0046724	0	0.10790E-06	544094.8	3754870.2	277.3	0.00	1.70	0.76	YES	
L0046725	0	0.10790E-06	544094.8	3754866.6	277.3	0.00	1.70	0.76	YES	
L0046726	0	0.10790E-06	544094.7	3754862.9	277.2	0.00	1.70	0.76	YES	
L0046727	0	0.10790E-06	544094.7	3754859.2	277.2	0.00	1.70	0.76	YES	
L0046728	0	0.10790E-06	544094.7	3754855.6	277.1	0.00	1.70	0.76	YES	
L0046729	0	0.10790E-06	544094.7	3754851.9	277.0	0.00	1.70	0.76	YES	
L0046730	0	0.10790E-06	544094.7	3754848.3	277.0	0.00	1.70	0.76	YES	
L0046731	0	0.10790E-06	544094.7	3754844.6	276.9	0.00	1.70	0.76	YES	
L0046732	0	0.10790E-06	544094.7	3754840.9	276.8	0.00	1.70	0.76	YES	
L0046733	0	0.10790E-06	544094.7	3754837.3	276.8	0.00	1.70	0.76	YES	
L0046734	0	0.10790E-06	544094.7	3754833.6	276.7	0.00	1.70	0.76	YES	
L0046735	0	0.10790E-06	544094.7	3754830.0	276.6	0.00	1.70	0.76	YES	
L0046736	0	0.10790E-06	544094.7	3754826.3	276.6	0.00	1.70	0.76	YES	
L0046737	0	0.10790E-06	544094.7	3754822.7	276.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046738	0	0.10790E-06	544094.7	3754819.0	276.4	0.00	1.70	0.76	YES	
L0046739	0	0.10790E-06	544094.7	3754815.3	276.4	0.00	1.70	0.76	YES	

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L0046740        0   0.10790E-06  544094.7 3754811.7   276.3     0.00     1.70     0.76     YES
L0046741        0   0.10790E-06  544094.7 3754808.0   276.3     0.00     1.70     0.76     YES
L0046742        0   0.10790E-06  544094.7 3754804.4   276.2     0.00     1.70     0.76     YES
L0046743        0   0.10790E-06  544094.7 3754800.7   276.1     0.00     1.70     0.76     YES
L0046744        0   0.10790E-06  544094.6 3754797.1   276.1     0.00     1.70     0.76     YES
L0046745        0   0.10790E-06  544094.6 3754793.4   276.0     0.00     1.70     0.76     YES
L0046746        0   0.10790E-06  544094.6 3754789.7   276.0     0.00     1.70     0.76     YES
L0046747        0   0.10790E-06  544094.6 3754786.1   275.9     0.00     1.70     0.76     YES
L0046748        0   0.10790E-06  544094.6 3754782.4   275.8     0.00     1.70     0.76     YES
L0046749        0   0.10790E-06  544094.6 3754778.8   275.8     0.00     1.70     0.76     YES
L0046750        0   0.10790E-06  544094.6 3754775.1   275.7     0.00     1.70     0.76     YES
L0046751        0   0.10790E-06  544094.6 3754771.5   275.7     0.00     1.70     0.76     YES
L0046752        0   0.10790E-06  544094.6 3754767.8   275.6     0.00     1.70     0.76     YES
L0046753        0   0.10790E-06  544094.6 3754764.1   275.5     0.00     1.70     0.76     YES
L0046754        0   0.10790E-06  544094.6 3754760.5   275.5     0.00     1.70     0.76     YES
L0046755        0   0.10790E-06  544094.6 3754756.8   275.4     0.00     1.70     0.76     YES
L0046756        0   0.10790E-06  544094.6 3754753.2   275.4     0.00     1.70     0.76     YES
L0046757        0   0.10790E-06  544094.6 3754749.5   275.3     0.00     1.70     0.76     YES
L0046758        0   0.10790E-06  544094.6 3754745.9   275.2     0.00     1.70     0.76     YES
L0046759        0   0.10790E-06  544094.6 3754742.2   275.2     0.00     1.70     0.76     YES
L0046760        0   0.85310E-07  543688.1 3755627.4   293.9     0.00     1.70     0.76     YES
L0046761        0   0.85310E-07  543688.0 3755623.7   293.8     0.00     1.70     0.76     YES
L0046762        0   0.85310E-07  543688.0 3755620.1   293.7     0.00     1.70     0.76     YES
L0046763        0   0.85310E-07  543688.0 3755616.4   293.7     0.00     1.70     0.76     YES
L0046764        0   0.85310E-07  543687.9 3755612.7   293.6     0.00     1.70     0.76     YES
L0046765        0   0.85310E-07  543687.9 3755609.1   293.5     0.00     1.70     0.76     YES
L0046766        0   0.85310E-07  543687.9 3755605.4   293.4     0.00     1.70     0.76     YES
L0046767        0   0.85310E-07  543687.8 3755601.8   293.4     0.00     1.70     0.76     YES
L0046768        0   0.85310E-07  543687.8 3755598.1   293.3     0.00     1.70     0.76     YES
L0046769        0   0.85310E-07  543687.7 3755594.5   293.2     0.00     1.70     0.76     YES
L0046770        0   0.85310E-07  543687.7 3755590.8   293.1     0.00     1.70     0.76     YES
L0046771        0   0.85310E-07  543687.7 3755587.1   293.1     0.00     1.70     0.76     YES
L0046772        0   0.85310E-07  543687.6 3755583.5   293.0     0.00     1.70     0.76     YES
L0046773        0   0.85310E-07  543687.6 3755579.8   292.9     0.00     1.70     0.76     YES
L0046774        0   0.85310E-07  543687.6 3755576.2   292.9     0.00     1.70     0.76     YES
L0046775        0   0.85310E-07  543687.5 3755572.5   292.8     0.00     1.70     0.76     YES
L0046776        0   0.85310E-07  543687.5 3755568.9   292.7     0.00     1.70     0.76     YES
L0046777        0   0.85310E-07  543687.5 3755565.2   292.6     0.00     1.70     0.76     YES

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 2nd 14 years                    ***        05/26/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 2nd 14 years                          ***        07:57:00
                                                                                                                  PAGE  20
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                        *** VOLUME SOURCE DATA ***

             NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.   URBAN  EMISSION RATE
  SOURCE      PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ     SOURCE  SCALAR VARY
    ID        CATS.               (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)             BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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L0046778	0	0.85310E-07	543687.4	3755561.5	292.6	0.00	1.70	0.76	YES
L0046779	0	0.85310E-07	543687.4	3755557.9	292.5	0.00	1.70	0.76	YES
L0046780	0	0.85310E-07	543687.3	3755554.2	292.4	0.00	1.70	0.76	YES
L0046781	0	0.85310E-07	543687.3	3755550.6	292.4	0.00	1.70	0.76	YES
L0046782	0	0.85310E-07	543687.3	3755546.9	292.3	0.00	1.70	0.76	YES
L0046783	0	0.85310E-07	543687.2	3755543.3	292.2	0.00	1.70	0.76	YES
L0046784	0	0.85310E-07	543687.2	3755539.6	292.2	0.00	1.70	0.76	YES
L0046785	0	0.85310E-07	543687.2	3755535.9	292.1	0.00	1.70	0.76	YES
L0046786	0	0.85310E-07	543687.1	3755532.3	292.1	0.00	1.70	0.76	YES
L0046787	0	0.85310E-07	543687.1	3755528.6	292.0	0.00	1.70	0.76	YES
L0046788	0	0.85310E-07	543687.1	3755525.0	291.9	0.00	1.70	0.76	YES
L0046789	0	0.85310E-07	543687.0	3755521.3	291.9	0.00	1.70	0.76	YES
L0046790	0	0.85310E-07	543687.0	3755517.6	291.8	0.00	1.70	0.76	YES
L0046791	0	0.85310E-07	543687.0	3755514.0	291.7	0.00	1.70	0.76	YES
L0046792	0	0.85310E-07	543686.9	3755510.3	291.7	0.00	1.70	0.76	YES
L0046793	0	0.85310E-07	543686.9	3755506.7	291.6	0.00	1.70	0.76	YES
L0046794	0	0.85310E-07	543686.8	3755503.0	291.6	0.00	1.70	0.76	YES
L0046795	0	0.85310E-07	543686.8	3755499.4	291.5	0.00	1.70	0.76	YES
L0046796	0	0.85310E-07	543686.8	3755495.7	291.4	0.00	1.70	0.76	YES
L0046797	0	0.85310E-07	543686.7	3755492.0	291.4	0.00	1.70	0.76	YES
L0046798	0	0.85310E-07	543686.7	3755488.4	291.3	0.00	1.70	0.76	YES
L0046799	0	0.85310E-07	543686.7	3755484.7	291.2	0.00	1.70	0.76	YES
L0046800	0	0.85310E-07	543686.6	3755481.1	291.2	0.00	1.70	0.76	YES
L0046801	0	0.85310E-07	543686.6	3755477.4	291.1	0.00	1.70	0.76	YES
L0046802	0	0.85310E-07	543686.6	3755473.8	291.1	0.00	1.70	0.76	YES
L0046803	0	0.85310E-07	543686.5	3755470.1	291.0	0.00	1.70	0.76	YES
L0046804	0	0.85310E-07	543686.5	3755466.4	290.9	0.00	1.70	0.76	YES
L0046805	0	0.85310E-07	543686.4	3755462.8	290.9	0.00	1.70	0.76	YES
L0046806	0	0.85310E-07	543686.4	3755459.1	290.8	0.00	1.70	0.76	YES
L0046807	0	0.85310E-07	543686.4	3755455.5	290.7	0.00	1.70	0.76	YES
L0046808	0	0.85310E-07	543686.3	3755451.8	290.7	0.00	1.70	0.76	YES
L0046809	0	0.85310E-07	543686.3	3755448.2	290.6	0.00	1.70	0.76	YES
L0046810	0	0.85310E-07	543686.3	3755444.5	290.5	0.00	1.70	0.76	YES
L0046811	0	0.85310E-07	543686.2	3755440.8	290.4	0.00	1.70	0.76	YES
L0046812	0	0.85310E-07	543686.2	3755437.2	290.4	0.00	1.70	0.76	YES
L0046813	0	0.85310E-07	543686.2	3755433.5	290.3	0.00	1.70	0.76	YES
L0046814	0	0.85310E-07	543686.1	3755429.9	290.2	0.00	1.70	0.76	YES
L0046815	0	0.85310E-07	543686.1	3755426.2	290.2	0.00	1.70	0.76	YES
L0046816	0	0.85310E-07	543686.1	3755422.6	290.1	0.00	1.70	0.76	YES
L0046817	0	0.85310E-07	543686.0	3755418.9	290.0	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER	EMISSION RATE	BASE	RELEASE	INIT.	INIT.	URBAN	EMISSION RATE

SOURCE ID	PART. CATS.	(GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE	SCALAR VARY BY
L0046818	0	0.85310E-07	543686.0	3755415.2	290.0	0.00	1.70	0.76	YES	
L0046819	0	0.85310E-07	543685.9	3755411.6	289.9	0.00	1.70	0.76	YES	
L0046820	0	0.85310E-07	543685.9	3755407.9	289.8	0.00	1.70	0.76	YES	
L0046821	0	0.85310E-07	543685.9	3755404.3	289.8	0.00	1.70	0.76	YES	
L0046822	0	0.85310E-07	543685.8	3755400.6	289.7	0.00	1.70	0.76	YES	
L0046823	0	0.85310E-07	543685.8	3755397.0	289.6	0.00	1.70	0.76	YES	
L0046824	0	0.85310E-07	543685.8	3755393.3	289.6	0.00	1.70	0.76	YES	
L0046825	0	0.85310E-07	543685.7	3755389.6	289.5	0.00	1.70	0.76	YES	
L0046826	0	0.85310E-07	543685.7	3755386.0	289.5	0.00	1.70	0.76	YES	
L0046827	0	0.85310E-07	543685.7	3755382.3	289.4	0.00	1.70	0.76	YES	
L0046828	0	0.85310E-07	543685.6	3755378.7	289.3	0.00	1.70	0.76	YES	
L0046829	0	0.85310E-07	543685.6	3755375.0	289.3	0.00	1.70	0.76	YES	
L0046830	0	0.85310E-07	543685.5	3755371.4	289.2	0.00	1.70	0.76	YES	
L0046831	0	0.85310E-07	543685.5	3755367.7	289.2	0.00	1.70	0.76	YES	
L0046832	0	0.85310E-07	543685.5	3755364.0	289.1	0.00	1.70	0.76	YES	
L0046833	0	0.85310E-07	543685.4	3755360.4	289.0	0.00	1.70	0.76	YES	
L0046834	0	0.85310E-07	543685.4	3755356.7	288.9	0.00	1.70	0.76	YES	
L0046835	0	0.85310E-07	543685.4	3755353.1	288.9	0.00	1.70	0.76	YES	
L0046836	0	0.85310E-07	543685.3	3755349.4	288.8	0.00	1.70	0.76	YES	
L0046837	0	0.85310E-07	543685.3	3755345.8	288.7	0.00	1.70	0.76	YES	
L0046838	0	0.85310E-07	543685.3	3755342.1	288.7	0.00	1.70	0.76	YES	
L0046839	0	0.85310E-07	543685.2	3755338.4	288.6	0.00	1.70	0.76	YES	
L0046840	0	0.85310E-07	543685.2	3755334.8	288.6	0.00	1.70	0.76	YES	
L0046841	0	0.85310E-07	543685.1	3755331.1	288.5	0.00	1.70	0.76	YES	
L0046842	0	0.85310E-07	543685.1	3755327.5	288.4	0.00	1.70	0.76	YES	
L0046843	0	0.85310E-07	543685.1	3755323.8	288.4	0.00	1.70	0.76	YES	
L0046844	0	0.85310E-07	543685.0	3755320.1	288.3	0.00	1.70	0.76	YES	
L0046845	0	0.85310E-07	543685.0	3755316.5	288.3	0.00	1.70	0.76	YES	
L0046846	0	0.85310E-07	543685.0	3755312.8	288.2	0.00	1.70	0.76	YES	
L0046847	0	0.85310E-07	543684.9	3755309.2	288.2	0.00	1.70	0.76	YES	
L0046848	0	0.85310E-07	543684.9	3755305.5	288.1	0.00	1.70	0.76	YES	
L0046849	0	0.85310E-07	543684.9	3755301.9	288.0	0.00	1.70	0.76	YES	
L0046850	0	0.85310E-07	543684.8	3755298.2	288.0	0.00	1.70	0.76	YES	
L0046851	0	0.85310E-07	543684.8	3755294.5	287.9	0.00	1.70	0.76	YES	
L0046852	0	0.85310E-07	543684.8	3755290.9	287.8	0.00	1.70	0.76	YES	
L0046853	0	0.85310E-07	543684.7	3755287.2	287.8	0.00	1.70	0.76	YES	
L0046854	0	0.85310E-07	543684.7	3755283.6	287.7	0.00	1.70	0.76	YES	
L0046855	0	0.85310E-07	543684.6	3755279.9	287.6	0.00	1.70	0.76	YES	
L0046856	0	0.85310E-07	543684.6	3755276.3	287.6	0.00	1.70	0.76	YES	
L0046857	0	0.85310E-07	543684.6	3755272.6	287.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046858	0	0.85310E-07	543684.5	3755268.9	287.4	0.00	1.70	0.76	YES	
L0046859	0	0.85310E-07	543684.5	3755265.3	287.4	0.00	1.70	0.76	YES	
L0046860	0	0.85310E-07	543684.5	3755261.6	287.3	0.00	1.70	0.76	YES	
L0046861	0	0.85310E-07	543684.4	3755258.0	287.3	0.00	1.70	0.76	YES	
L0046862	0	0.85310E-07	543684.4	3755254.3	287.2	0.00	1.70	0.76	YES	
L0046863	0	0.85310E-07	543684.4	3755250.7	287.2	0.00	1.70	0.76	YES	
L0046864	0	0.85310E-07	543684.3	3755247.0	287.1	0.00	1.70	0.76	YES	
L0046865	0	0.85310E-07	543684.3	3755243.3	287.0	0.00	1.70	0.76	YES	
L0046866	0	0.85310E-07	543684.2	3755239.7	286.9	0.00	1.70	0.76	YES	
L0046867	0	0.85310E-07	543684.2	3755236.0	286.9	0.00	1.70	0.76	YES	
L0046868	0	0.85310E-07	543684.2	3755232.4	286.8	0.00	1.70	0.76	YES	
L0046869	0	0.85310E-07	543684.1	3755228.7	286.7	0.00	1.70	0.76	YES	
L0046870	0	0.85310E-07	543684.1	3755225.1	286.6	0.00	1.70	0.76	YES	
L0046871	0	0.85310E-07	543684.1	3755221.4	286.6	0.00	1.70	0.76	YES	
L0046872	0	0.85310E-07	543684.0	3755217.7	286.5	0.00	1.70	0.76	YES	
L0046873	0	0.85310E-07	543684.0	3755214.1	286.4	0.00	1.70	0.76	YES	
L0046874	0	0.85310E-07	543684.0	3755210.4	286.4	0.00	1.70	0.76	YES	
L0046875	0	0.85310E-07	543683.9	3755206.8	286.3	0.00	1.70	0.76	YES	
L0046876	0	0.85310E-07	543683.9	3755203.1	286.3	0.00	1.70	0.76	YES	
L0046877	0	0.85310E-07	543683.8	3755199.5	286.2	0.00	1.70	0.76	YES	
L0046878	0	0.85310E-07	543683.8	3755195.8	286.1	0.00	1.70	0.76	YES	
L0046879	0	0.85310E-07	543683.8	3755192.1	286.1	0.00	1.70	0.76	YES	
L0046880	0	0.85310E-07	543683.7	3755188.5	286.0	0.00	1.70	0.76	YES	
L0046881	0	0.85310E-07	543683.7	3755184.8	285.9	0.00	1.70	0.76	YES	
L0046882	0	0.85310E-07	543683.7	3755181.2	285.9	0.00	1.70	0.76	YES	
L0046883	0	0.85310E-07	543683.6	3755177.5	285.8	0.00	1.70	0.76	YES	
L0046884	0	0.85310E-07	543683.6	3755173.9	285.7	0.00	1.70	0.76	YES	
L0046885	0	0.85310E-07	543683.6	3755170.2	285.7	0.00	1.70	0.76	YES	
L0046886	0	0.85310E-07	543683.5	3755166.5	285.6	0.00	1.70	0.76	YES	
L0046887	0	0.85310E-07	543683.5	3755162.9	285.5	0.00	1.70	0.76	YES	
L0046888	0	0.85310E-07	543683.5	3755159.2	285.4	0.00	1.70	0.76	YES	
L0046889	0	0.85310E-07	543683.4	3755155.6	285.4	0.00	1.70	0.76	YES	
L0046890	0	0.85310E-07	543683.4	3755151.9	285.3	0.00	1.70	0.76	YES	
L0046891	0	0.85310E-07	543683.3	3755148.2	285.2	0.00	1.70	0.76	YES	
L0046892	0	0.85310E-07	543683.3	3755144.6	285.1	0.00	1.70	0.76	YES	
L0046893	0	0.85310E-07	543683.3	3755140.9	285.1	0.00	1.70	0.76	YES	
L0046894	0	0.85310E-07	543683.2	3755137.3	285.0	0.00	1.70	0.76	YES	
L0046895	0	0.85310E-07	543683.2	3755133.6	284.9	0.00	1.70	0.76	YES	
L0046896	0	0.85310E-07	543683.2	3755130.0	284.8	0.00	1.70	0.76	YES	
L0046897	0	0.85310E-07	543683.1	3755126.3	284.8	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046898	0	0.85310E-07	543683.1	3755122.6	284.7	0.00	1.70	0.76	YES	
L0046899	0	0.85310E-07	543683.1	3755119.0	284.6	0.00	1.70	0.76	YES	
L0046900	0	0.85310E-07	543683.0	3755115.3	284.6	0.00	1.70	0.76	YES	
L0046901	0	0.85310E-07	543683.0	3755111.7	284.5	0.00	1.70	0.76	YES	
L0046902	0	0.85310E-07	543682.9	3755108.0	284.4	0.00	1.70	0.76	YES	
L0046903	0	0.85310E-07	543682.9	3755104.4	284.3	0.00	1.70	0.76	YES	
L0046904	0	0.85310E-07	543682.9	3755100.7	284.2	0.00	1.70	0.76	YES	
L0046905	0	0.85310E-07	543682.8	3755097.0	284.2	0.00	1.70	0.76	YES	
L0046906	0	0.85310E-07	543682.8	3755093.4	284.1	0.00	1.70	0.76	YES	
L0046907	0	0.85310E-07	543682.8	3755089.7	284.0	0.00	1.70	0.76	YES	
L0046908	0	0.85310E-07	543682.7	3755086.1	284.0	0.00	1.70	0.76	YES	
L0046909	0	0.85310E-07	543682.7	3755082.4	283.9	0.00	1.70	0.76	YES	
L0046910	0	0.85310E-07	543682.7	3755078.8	283.8	0.00	1.70	0.76	YES	
L0046911	0	0.85310E-07	543682.6	3755075.1	283.7	0.00	1.70	0.76	YES	
L0046912	0	0.85310E-07	543682.6	3755071.4	283.7	0.00	1.70	0.76	YES	
L0046913	0	0.85310E-07	543682.5	3755067.8	283.6	0.00	1.70	0.76	YES	
L0046914	0	0.85310E-07	543682.5	3755064.1	283.5	0.00	1.70	0.76	YES	
L0046915	0	0.85310E-07	543682.5	3755060.5	283.5	0.00	1.70	0.76	YES	
L0046916	0	0.85310E-07	543682.4	3755056.8	283.4	0.00	1.70	0.76	YES	
L0046917	0	0.85310E-07	543682.4	3755053.2	283.3	0.00	1.70	0.76	YES	
L0046918	0	0.85310E-07	543682.4	3755049.5	283.2	0.00	1.70	0.76	YES	
L0046919	0	0.85310E-07	543682.3	3755045.8	283.2	0.00	1.70	0.76	YES	
L0046920	0	0.85310E-07	543682.3	3755042.2	283.1	0.00	1.70	0.76	YES	
L0046921	0	0.85310E-07	543682.3	3755038.5	283.0	0.00	1.70	0.76	YES	
L0046922	0	0.85310E-07	543682.2	3755034.9	283.0	0.00	1.70	0.76	YES	
L0046923	0	0.85310E-07	543682.2	3755031.2	282.9	0.00	1.70	0.76	YES	
L0046924	0	0.85310E-07	543682.2	3755027.6	282.9	0.00	1.70	0.76	YES	
L0046925	0	0.85310E-07	543682.1	3755023.9	282.8	0.00	1.70	0.76	YES	
L0046926	0	0.85310E-07	543682.1	3755020.2	282.8	0.00	1.70	0.76	YES	
L0046927	0	0.85310E-07	543682.0	3755016.6	282.7	0.00	1.70	0.76	YES	
L0046928	0	0.85310E-07	543682.0	3755012.9	282.7	0.00	1.70	0.76	YES	
L0046929	0	0.85310E-07	543682.0	3755009.3	282.6	0.00	1.70	0.76	YES	
L0046930	0	0.85310E-07	543681.9	3755005.6	282.6	0.00	1.70	0.76	YES	
L0046931	0	0.85310E-07	543681.9	3755002.0	282.5	0.00	1.70	0.76	YES	
L0046932	0	0.85310E-07	543681.9	3754998.3	282.4	0.00	1.70	0.76	YES	
L0046933	0	0.85310E-07	543681.8	3754994.6	282.4	0.00	1.70	0.76	YES	
L0046934	0	0.85310E-07	543681.8	3754991.0	282.3	0.00	1.70	0.76	YES	
L0046935	0	0.85310E-07	543681.8	3754987.3	282.3	0.00	1.70	0.76	YES	
L0046936	0	0.85310E-07	543681.7	3754983.7	282.2	0.00	1.70	0.76	YES	
L0046937	0	0.85310E-07	543681.7	3754980.0	282.2	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046938	0	0.85310E-07	543681.6	3754976.4	282.1	0.00	1.70	0.76	YES	
L0046939	0	0.85310E-07	543681.6	3754972.7	282.0	0.00	1.70	0.76	YES	
L0046940	0	0.85310E-07	543681.6	3754969.0	282.0	0.00	1.70	0.76	YES	
L0046941	0	0.85310E-07	543681.5	3754965.4	281.9	0.00	1.70	0.76	YES	
L0046942	0	0.85310E-07	543681.5	3754961.7	281.9	0.00	1.70	0.76	YES	
L0046943	0	0.85310E-07	543681.5	3754958.1	281.8	0.00	1.70	0.76	YES	
L0046944	0	0.85310E-07	543681.4	3754954.4	281.8	0.00	1.70	0.76	YES	
L0046945	0	0.85310E-07	543681.4	3754950.7	281.7	0.00	1.70	0.76	YES	
L0046946	0	0.85310E-07	543681.4	3754947.1	281.7	0.00	1.70	0.76	YES	
L0046947	0	0.85310E-07	543681.3	3754943.4	281.6	0.00	1.70	0.76	YES	
L0046948	0	0.85310E-07	543681.3	3754939.8	281.6	0.00	1.70	0.76	YES	
L0046949	0	0.85310E-07	543681.2	3754936.1	281.5	0.00	1.70	0.76	YES	
L0046950	0	0.85310E-07	543681.2	3754932.5	281.4	0.00	1.70	0.76	YES	
L0046951	0	0.85310E-07	543681.2	3754928.8	281.4	0.00	1.70	0.76	YES	
L0046952	0	0.85310E-07	543681.1	3754925.1	281.3	0.00	1.70	0.76	YES	
L0046953	0	0.85310E-07	543681.1	3754921.5	281.3	0.00	1.70	0.76	YES	
L0046954	0	0.85310E-07	543681.1	3754917.8	281.2	0.00	1.70	0.76	YES	
L0046955	0	0.85310E-07	543681.0	3754914.2	281.1	0.00	1.70	0.76	YES	
L0046956	0	0.85310E-07	543681.0	3754910.5	281.1	0.00	1.70	0.76	YES	
L0046957	0	0.85310E-07	543681.0	3754906.9	281.0	0.00	1.70	0.76	YES	
L0046958	0	0.85310E-07	543680.9	3754903.2	280.9	0.00	1.70	0.76	YES	
L0046959	0	0.85310E-07	543680.9	3754899.5	280.9	0.00	1.70	0.76	YES	
L0046960	0	0.85310E-07	543680.9	3754895.9	280.8	0.00	1.70	0.76	YES	
L0046961	0	0.85310E-07	543680.8	3754892.2	280.7	0.00	1.70	0.76	YES	
L0046962	0	0.85310E-07	543680.8	3754888.6	280.6	0.00	1.70	0.76	YES	
L0046963	0	0.85310E-07	543680.7	3754884.9	280.6	0.00	1.70	0.76	YES	
L0046964	0	0.85310E-07	543680.7	3754881.3	280.5	0.00	1.70	0.76	YES	
L0046965	0	0.85310E-07	543680.7	3754877.6	280.4	0.00	1.70	0.76	YES	
L0046966	0	0.85310E-07	543680.6	3754873.9	280.4	0.00	1.70	0.76	YES	
L0046967	0	0.85310E-07	543680.6	3754870.3	280.3	0.00	1.70	0.76	YES	
L0046968	0	0.85310E-07	543680.6	3754866.6	280.2	0.00	1.70	0.76	YES	
L0046969	0	0.85310E-07	543680.5	3754863.0	280.1	0.00	1.70	0.76	YES	
L0046970	0	0.85310E-07	543680.5	3754859.3	280.1	0.00	1.70	0.76	YES	
L0046971	0	0.85310E-07	543680.5	3754855.7	280.0	0.00	1.70	0.76	YES	
L0046972	0	0.85310E-07	543680.4	3754852.0	279.9	0.00	1.70	0.76	YES	
L0046973	0	0.85310E-07	543680.4	3754848.3	279.8	0.00	1.70	0.76	YES	
L0046974	0	0.85310E-07	543680.3	3754844.7	279.8	0.00	1.70	0.76	YES	
L0046975	0	0.85310E-07	543680.3	3754841.0	279.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0046976	0	0.85310E-07	543680.3	3754837.4	279.6	0.00	1.70	0.76	YES	
L0046977	0	0.85310E-07	543680.2	3754833.7	279.5	0.00	1.70	0.76	YES	
L0046978	0	0.85310E-07	543680.2	3754830.1	279.4	0.00	1.70	0.76	YES	
L0046979	0	0.85310E-07	543680.2	3754826.4	279.4	0.00	1.70	0.76	YES	
L0046980	0	0.85310E-07	543680.1	3754822.7	279.3	0.00	1.70	0.76	YES	
L0046981	0	0.85310E-07	543680.1	3754819.1	279.2	0.00	1.70	0.76	YES	
L0046982	0	0.85310E-07	543680.1	3754815.4	279.1	0.00	1.70	0.76	YES	
L0046983	0	0.85310E-07	543680.0	3754811.8	279.0	0.00	1.70	0.76	YES	
L0046984	0	0.85310E-07	543680.0	3754808.1	279.0	0.00	1.70	0.76	YES	
L0046985	0	0.85310E-07	543679.9	3754804.5	278.9	0.00	1.70	0.76	YES	
L0046986	0	0.85310E-07	543679.9	3754800.8	278.8	0.00	1.70	0.76	YES	
L0046987	0	0.85310E-07	543679.9	3754797.1	278.7	0.00	1.70	0.76	YES	
L0046988	0	0.85310E-07	543679.8	3754793.5	278.7	0.00	1.70	0.76	YES	
L0046989	0	0.85310E-07	543679.8	3754789.8	278.6	0.00	1.70	0.76	YES	
L0046990	0	0.85310E-07	543679.8	3754786.2	278.5	0.00	1.70	0.76	YES	
L0046991	0	0.85310E-07	543679.7	3754782.5	278.4	0.00	1.70	0.76	YES	
L0046992	0	0.85310E-07	543679.7	3754778.9	278.4	0.00	1.70	0.76	YES	
L0046993	0	0.85310E-07	543679.7	3754775.2	278.3	0.00	1.70	0.76	YES	
L0046994	0	0.85310E-07	543679.6	3754771.5	278.2	0.00	1.70	0.76	YES	
L0046995	0	0.85310E-07	543679.6	3754767.9	278.2	0.00	1.70	0.76	YES	
L0046996	0	0.85310E-07	543679.6	3754764.2	278.1	0.00	1.70	0.76	YES	
L0046997	0	0.85310E-07	543679.5	3754760.6	278.0	0.00	1.70	0.76	YES	
L0046998	0	0.85310E-07	543679.5	3754756.9	277.9	0.00	1.70	0.76	YES	
L0046999	0	0.85310E-07	543679.4	3754753.2	277.9	0.00	1.70	0.76	YES	
L0047000	0	0.85310E-07	543679.4	3754749.6	277.8	0.00	1.70	0.76	YES	
L0047001	0	0.85310E-07	543679.4	3754745.9	277.7	0.00	1.70	0.76	YES	
L0047002	0	0.85310E-07	543679.3	3754742.3	277.6	0.00	1.70	0.76	YES	
L0047003	0	0.85310E-07	543679.3	3754738.6	277.6	0.00	1.70	0.76	YES	
L0047004	0	0.85310E-07	543679.3	3754735.0	277.5	0.00	1.70	0.76	YES	
L0047005	0	0.85310E-07	543679.2	3754731.3	277.4	0.00	1.70	0.76	YES	
L0047006	0	0.85310E-07	543679.2	3754727.6	277.3	0.00	1.70	0.76	YES	
L0047007	0	0.85310E-07	543679.2	3754724.0	277.3	0.00	1.70	0.76	YES	
L0047008	0	0.85310E-07	543679.1	3754720.3	277.2	0.00	1.70	0.76	YES	
L0047009	0	0.85310E-07	543679.1	3754716.7	277.1	0.00	1.70	0.76	YES	
L0047010	0	0.85310E-07	543679.0	3754713.0	277.1	0.00	1.70	0.76	YES	
L0047011	0	0.85310E-07	543679.0	3754709.4	277.0	0.00	1.70	0.76	YES	
L0047012	0	0.85310E-07	543679.0	3754705.7	276.9	0.00	1.70	0.76	YES	

L0047013	0	0.85310E-07	543678.9	3754702.0	276.8	0.00	1.70	0.76	YES	
L0047014	0	0.85310E-07	543678.9	3754698.4	276.8	0.00	1.70	0.76	YES	
L0047015	0	0.85310E-07	543678.9	3754694.7	276.7	0.00	1.70	0.76	YES	
L0047016	0	0.85310E-07	543678.8	3754691.1	276.6	0.00	1.70	0.76	YES	
L0047017	0	0.85310E-07	543678.8	3754687.4	276.6	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047018	0	0.85310E-07	543678.8	3754683.8	276.5	0.00	1.70	0.76	YES	
L0047019	0	0.85310E-07	543678.7	3754680.1	276.4	0.00	1.70	0.76	YES	
L0047020	0	0.85310E-07	543678.7	3754676.4	276.4	0.00	1.70	0.76	YES	
L0047021	0	0.85310E-07	543678.7	3754672.8	276.3	0.00	1.70	0.76	YES	
L0047022	0	0.85310E-07	543678.6	3754669.1	276.2	0.00	1.70	0.76	YES	
L0047023	0	0.85310E-07	543678.6	3754665.5	276.2	0.00	1.70	0.76	YES	
L0047024	0	0.85310E-07	543678.5	3754661.8	276.1	0.00	1.70	0.76	YES	
L0047025	0	0.85310E-07	543678.5	3754658.2	276.1	0.00	1.70	0.76	YES	
L0047026	0	0.85310E-07	543678.5	3754654.5	276.0	0.00	1.70	0.76	YES	
L0047027	0	0.85310E-07	543678.4	3754650.8	275.9	0.00	1.70	0.76	YES	
L0047028	0	0.85310E-07	543678.4	3754647.2	275.9	0.00	1.70	0.76	YES	
L0047029	0	0.85310E-07	543678.4	3754643.5	275.8	0.00	1.70	0.76	YES	
L0047030	0	0.85310E-07	543678.3	3754639.9	275.8	0.00	1.70	0.76	YES	
L0047031	0	0.85310E-07	543678.3	3754636.2	275.7	0.00	1.70	0.76	YES	
L0047032	0	0.85310E-07	543678.3	3754632.6	275.7	0.00	1.70	0.76	YES	
L0047033	0	0.85310E-07	543678.2	3754628.9	275.6	0.00	1.70	0.76	YES	
L0047034	0	0.85310E-07	543678.2	3754625.2	275.5	0.00	1.70	0.76	YES	
L0047035	0	0.85310E-07	543678.1	3754621.6	275.5	0.00	1.70	0.76	YES	
L0047036	0	0.85310E-07	543678.1	3754617.9	275.4	0.00	1.70	0.76	YES	
L0047037	0	0.85310E-07	543678.1	3754614.3	275.3	0.00	1.70	0.76	YES	
L0047038	0	0.85310E-07	543678.0	3754610.6	275.3	0.00	1.70	0.76	YES	
L0047039	0	0.85310E-07	543678.0	3754607.0	275.2	0.00	1.70	0.76	YES	
L0047040	0	0.85310E-07	543678.0	3754603.3	275.2	0.00	1.70	0.76	YES	
L0047041	0	0.85310E-07	543677.9	3754599.6	275.1	0.00	1.70	0.76	YES	
L0047042	0	0.85310E-07	543677.9	3754596.0	275.0	0.00	1.70	0.76	YES	
L0047043	0	0.85310E-07	543677.9	3754592.3	274.9	0.00	1.70	0.76	YES	
L0047044	0	0.85310E-07	543677.8	3754588.7	274.9	0.00	1.70	0.76	YES	
L0047045	0	0.85310E-07	543677.8	3754585.0	274.8	0.00	1.70	0.76	YES	
L0047046	0	0.85310E-07	543677.7	3754581.3	274.7	0.00	1.70	0.76	YES	
L0047047	0	0.85310E-07	543677.7	3754577.7	274.6	0.00	1.70	0.76	YES	
L0047048	0	0.85310E-07	543677.7	3754574.0	274.6	0.00	1.70	0.76	YES	
L0047049	0	0.85310E-07	543677.6	3754570.4	274.5	0.00	1.70	0.76	YES	

L0047050	0	0.85310E-07	543677.6	3754566.7	274.4	0.00	1.70	0.76	YES	
L0047051	0	0.85310E-07	543677.6	3754563.1	274.3	0.00	1.70	0.76	YES	
L0047052	0	0.85310E-07	543677.5	3754559.4	274.3	0.00	1.70	0.76	YES	
L0047053	0	0.85310E-07	543677.5	3754555.7	274.2	0.00	1.70	0.76	YES	
L0047054	0	0.85310E-07	543677.5	3754552.1	274.1	0.00	1.70	0.76	YES	
L0047055	0	0.85310E-07	543677.4	3754548.4	274.1	0.00	1.70	0.76	YES	
L0047056	0	0.85310E-07	543677.4	3754544.8	274.0	0.00	1.70	0.76	YES	
L0047057	0	0.85310E-07	543677.4	3754541.1	273.9	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047058	0	0.85310E-07	543677.3	3754537.5	273.8	0.00	1.70	0.76	YES	
L0047059	0	0.85310E-07	543677.3	3754533.8	273.8	0.00	1.70	0.76	YES	
L0047060	0	0.85310E-07	543677.2	3754530.1	273.7	0.00	1.70	0.76	YES	
L0047061	0	0.85310E-07	543677.2	3754526.5	273.6	0.00	1.70	0.76	YES	
L0047062	0	0.85310E-07	543677.2	3754522.8	273.5	0.00	1.70	0.76	YES	
L0047063	0	0.85310E-07	543677.1	3754519.2	273.5	0.00	1.70	0.76	YES	
L0047064	0	0.85310E-07	543677.1	3754515.5	273.4	0.00	1.70	0.76	YES	
L0047065	0	0.85310E-07	543677.1	3754511.9	273.3	0.00	1.70	0.76	YES	
L0047066	0	0.85310E-07	543677.0	3754508.2	273.2	0.00	1.70	0.76	YES	
L0047067	0	0.85310E-07	543677.0	3754504.5	273.2	0.00	1.70	0.76	YES	
L0047068	0	0.85310E-07	543677.0	3754500.9	273.1	0.00	1.70	0.76	YES	
L0047069	0	0.85310E-07	543676.9	3754497.2	273.0	0.00	1.70	0.76	YES	
L0047070	0	0.85310E-07	543676.9	3754493.6	273.0	0.00	1.70	0.76	YES	
L0047071	0	0.85310E-07	543676.8	3754489.9	272.9	0.00	1.70	0.76	YES	
L0047072	0	0.85310E-07	543676.8	3754486.3	272.8	0.00	1.70	0.76	YES	
L0047073	0	0.85310E-07	543676.8	3754482.6	272.7	0.00	1.70	0.76	YES	
L0047074	0	0.85310E-07	543676.7	3754478.9	272.7	0.00	1.70	0.76	YES	
L0047075	0	0.85310E-07	543676.7	3754475.3	272.6	0.00	1.70	0.76	YES	
L0047076	0	0.85310E-07	543676.7	3754471.6	272.5	0.00	1.70	0.76	YES	
L0047077	0	0.85310E-07	543676.6	3754468.0	272.4	0.00	1.70	0.76	YES	
L0047078	0	0.85310E-07	543676.6	3754464.3	272.4	0.00	1.70	0.76	YES	
L0047079	0	0.85310E-07	543676.6	3754460.7	272.3	0.00	1.70	0.76	YES	
L0047080	0	0.85310E-07	543676.5	3754457.0	272.2	0.00	1.70	0.76	YES	
L0047081	0	0.85310E-07	543676.5	3754453.3	272.2	0.00	1.70	0.76	YES	
L0047082	0	0.85310E-07	543676.4	3754449.7	272.1	0.00	1.70	0.76	YES	
L0047083	0	0.85310E-07	543676.4	3754446.0	272.0	0.00	1.70	0.76	YES	
L0047084	0	0.85310E-07	543676.4	3754442.4	271.9	0.00	1.70	0.76	YES	
L0047085	0	0.85310E-07	543676.3	3754438.7	271.9	0.00	1.70	0.76	YES	
L0047086	0	0.85310E-07	543676.3	3754435.1	271.8	0.00	1.70	0.76	YES	

L0047087	0	0.85310E-07	543676.3	3754431.4	271.7	0.00	1.70	0.76	YES
L0047088	0	0.85310E-07	543676.2	3754427.7	271.7	0.00	1.70	0.76	YES
L0047089	0	0.85310E-07	543676.2	3754424.1	271.6	0.00	1.70	0.76	YES
L0047090	0	0.85310E-07	543676.2	3754420.4	271.5	0.00	1.70	0.76	YES
L0047091	0	0.85310E-07	543676.1	3754416.8	271.4	0.00	1.70	0.76	YES
L0047092	0	0.85310E-07	543676.1	3754413.1	271.4	0.00	1.70	0.76	YES
L0047093	0	0.85310E-07	543676.1	3754409.5	271.3	0.00	1.70	0.76	YES
L0047094	0	0.85310E-07	543676.0	3754405.8	271.2	0.00	1.70	0.76	YES
L0047095	0	0.85310E-07	543676.0	3754402.1	271.2	0.00	1.70	0.76	YES
L0047096	0	0.85310E-07	543675.9	3754398.5	271.1	0.00	1.70	0.76	YES
L0047097	0	0.85310E-07	543675.9	3754394.8	271.0	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047098	0	0.85310E-07	543675.9	3754391.2	270.9	0.00	1.70	0.76	YES	
L0047099	0	0.85310E-07	543675.8	3754387.5	270.9	0.00	1.70	0.76	YES	
L0047100	0	0.85310E-07	543675.8	3754383.8	270.8	0.00	1.70	0.76	YES	
L0047101	0	0.85310E-07	543675.8	3754380.2	270.7	0.00	1.70	0.76	YES	
L0047102	0	0.85310E-07	543675.7	3754376.5	270.7	0.00	1.70	0.76	YES	
L0047103	0	0.85310E-07	543675.7	3754372.9	270.6	0.00	1.70	0.76	YES	
L0047104	0	0.85310E-07	543675.7	3754369.2	270.5	0.00	1.70	0.76	YES	
L0047105	0	0.85310E-07	543675.6	3754365.6	270.4	0.00	1.70	0.76	YES	
L0047106	0	0.85310E-07	543675.6	3754361.9	270.4	0.00	1.70	0.76	YES	
L0047107	0	0.85310E-07	543675.5	3754358.2	270.3	0.00	1.70	0.76	YES	
L0047108	0	0.85310E-07	543675.5	3754354.6	270.2	0.00	1.70	0.76	YES	
L0047109	0	0.85310E-07	543675.5	3754350.9	270.1	0.00	1.70	0.76	YES	
L0047110	0	0.85310E-07	543675.4	3754347.3	270.0	0.00	1.70	0.76	YES	
L0047111	0	0.85310E-07	543675.4	3754343.6	269.9	0.00	1.70	0.76	YES	
L0047112	0	0.85310E-07	543675.4	3754340.0	269.9	0.00	1.70	0.76	YES	
L0047113	0	0.85310E-07	543675.3	3754336.3	269.8	0.00	1.70	0.76	YES	
L0047114	0	0.85310E-07	543675.3	3754332.6	269.7	0.00	1.70	0.76	YES	
L0047115	0	0.85310E-07	543675.3	3754329.0	269.6	0.00	1.70	0.76	YES	
L0047116	0	0.85310E-07	543675.2	3754325.3	269.5	0.00	1.70	0.76	YES	
L0047117	0	0.85310E-07	543675.2	3754321.7	269.4	0.00	1.70	0.76	YES	
L0047118	0	0.85310E-07	543675.1	3754318.0	269.4	0.00	1.70	0.76	YES	
L0047119	0	0.85310E-07	543675.1	3754314.4	269.3	0.00	1.70	0.76	YES	
L0047120	0	0.85310E-07	543675.1	3754310.7	269.2	0.00	1.70	0.76	YES	
L0047121	0	0.85310E-07	543675.0	3754307.0	269.1	0.00	1.70	0.76	YES	
L0047122	0	0.85310E-07	543675.0	3754303.4	269.1	0.00	1.70	0.76	YES	
L0047123	0	0.85310E-07	543675.0	3754299.7	269.0	0.00	1.70	0.76	YES	

L0047124	0	0.85310E-07	543674.9	3754296.1	268.9	0.00	1.70	0.76	YES	
L0047125	0	0.85310E-07	543674.9	3754292.4	268.9	0.00	1.70	0.76	YES	
L0047126	0	0.85310E-07	543674.9	3754288.8	268.8	0.00	1.70	0.76	YES	
L0047127	0	0.85310E-07	543674.8	3754285.1	268.7	0.00	1.70	0.76	YES	
L0047128	0	0.85310E-07	543674.8	3754281.4	268.7	0.00	1.70	0.76	YES	
L0047129	0	0.85310E-07	543674.8	3754277.8	268.6	0.00	1.70	0.76	YES	
L0047130	0	0.85310E-07	543674.7	3754274.1	268.6	0.00	1.70	0.76	YES	
L0047131	0	0.85310E-07	543674.7	3754270.5	268.5	0.00	1.70	0.76	YES	
L0047132	0	0.85310E-07	543674.6	3754266.8	268.4	0.00	1.70	0.76	YES	
L0047133	0	0.85310E-07	543674.6	3754263.2	268.4	0.00	1.70	0.76	YES	
L0047134	0	0.85310E-07	543674.6	3754259.5	268.3	0.00	1.70	0.76	YES	
L0047135	0	0.85310E-07	543674.5	3754255.8	268.3	0.00	1.70	0.76	YES	
L0047136	0	0.85310E-07	543674.5	3754252.2	268.2	0.00	1.70	0.76	YES	
L0047137	0	0.85310E-07	543674.5	3754248.5	268.1	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047138	0	0.85310E-07	543674.4	3754244.9	268.1	0.00	1.70	0.76	YES	
L0047139	0	0.85310E-07	543674.4	3754241.2	268.0	0.00	1.70	0.76	YES	
L0047140	0	0.85310E-07	543674.4	3754237.6	267.9	0.00	1.70	0.76	YES	
L0047141	0	0.85310E-07	543674.3	3754233.9	267.9	0.00	1.70	0.76	YES	
L0047142	0	0.85310E-07	543674.3	3754230.2	267.8	0.00	1.70	0.76	YES	
L0047143	0	0.85310E-07	543674.2	3754226.6	267.8	0.00	1.70	0.76	YES	
L0047144	0	0.85310E-07	543674.2	3754222.9	267.7	0.00	1.70	0.76	YES	
L0047145	0	0.85310E-07	543674.2	3754219.3	267.7	0.00	1.70	0.76	YES	
L0047146	0	0.85310E-07	543674.1	3754215.6	267.6	0.00	1.70	0.76	YES	
L0047147	0	0.85310E-07	543674.1	3754211.9	267.6	0.00	1.70	0.76	YES	
L0047148	0	0.85310E-07	543674.1	3754208.3	267.5	0.00	1.70	0.76	YES	
L0047149	0	0.85310E-07	543674.0	3754204.6	267.5	0.00	1.70	0.76	YES	
L0047150	0	0.85310E-07	543674.0	3754201.0	267.4	0.00	1.70	0.76	YES	
L0047151	0	0.85310E-07	543674.0	3754197.3	267.4	0.00	1.70	0.76	YES	
L0047152	0	0.85310E-07	543673.9	3754193.7	267.3	0.00	1.70	0.76	YES	
L0047153	0	0.85310E-07	543673.9	3754190.0	267.2	0.00	1.70	0.76	YES	
L0047154	0	0.85310E-07	543673.8	3754186.3	267.2	0.00	1.70	0.76	YES	
L0047155	0	0.85310E-07	543673.8	3754182.7	267.1	0.00	1.70	0.76	YES	
L0047156	0	0.85310E-07	543673.8	3754179.0	267.1	0.00	1.70	0.76	YES	
L0047157	0	0.85310E-07	543673.7	3754175.4	267.0	0.00	1.70	0.76	YES	
L0047158	0	0.85310E-07	543673.7	3754171.7	266.9	0.00	1.70	0.76	YES	
L0047159	0	0.85310E-07	543673.7	3754168.1	266.9	0.00	1.70	0.76	YES	
L0047160	0	0.85310E-07	543673.6	3754164.4	266.8	0.00	1.70	0.76	YES	

L0047161	0	0.85310E-07	543673.6	3754160.7	266.7	0.00	1.70	0.76	YES	
L0047162	0	0.85310E-07	543673.6	3754157.1	266.7	0.00	1.70	0.76	YES	
L0047163	0	0.85310E-07	543673.5	3754153.4	266.6	0.00	1.70	0.76	YES	
L0047164	0	0.85310E-07	543673.5	3754149.8	266.5	0.00	1.70	0.76	YES	
L0047165	0	0.85310E-07	543673.5	3754146.1	266.4	0.00	1.70	0.76	YES	
L0047166	0	0.85310E-07	543673.4	3754142.5	266.4	0.00	1.70	0.76	YES	
L0047167	0	0.85310E-07	543673.4	3754138.8	266.3	0.00	1.70	0.76	YES	
L0047168	0	0.85310E-07	543673.3	3754135.1	266.2	0.00	1.70	0.76	YES	
L0047169	0	0.85310E-07	543673.3	3754131.5	266.2	0.00	1.70	0.76	YES	
L0047170	0	0.85310E-07	543673.3	3754127.8	266.1	0.00	1.70	0.76	YES	
L0047171	0	0.85310E-07	543673.2	3754124.2	266.1	0.00	1.70	0.76	YES	
L0047172	0	0.85310E-07	543673.2	3754120.5	266.0	0.00	1.70	0.76	YES	
L0047173	0	0.85310E-07	543673.2	3754116.9	265.9	0.00	1.70	0.76	YES	
L0047174	0	0.85310E-07	543673.1	3754113.2	265.9	0.00	1.70	0.76	YES	
L0047175	0	0.85310E-07	543673.1	3754109.5	265.8	0.00	1.70	0.76	YES	
L0047176	0	0.85310E-07	543673.1	3754105.9	265.7	0.00	1.70	0.76	YES	
L0047177	0	0.85310E-07	543673.0	3754102.2	265.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047178	0	0.85310E-07	543673.0	3754098.6	265.6	0.00	1.70	0.76	YES	
L0047179	0	0.85310E-07	543672.9	3754094.9	265.6	0.00	1.70	0.76	YES	
L0047180	0	0.85310E-07	543672.9	3754091.3	265.5	0.00	1.70	0.76	YES	
L0047181	0	0.85310E-07	543672.9	3754087.6	265.4	0.00	1.70	0.76	YES	
L0047182	0	0.85310E-07	543672.8	3754083.9	265.4	0.00	1.70	0.76	YES	
L0047183	0	0.85310E-07	543672.8	3754080.3	265.3	0.00	1.70	0.76	YES	
L0047184	0	0.85310E-07	543672.8	3754076.6	265.2	0.00	1.70	0.76	YES	
L0047185	0	0.85310E-07	543672.7	3754073.0	265.2	0.00	1.70	0.76	YES	
L0047186	0	0.85310E-07	543672.7	3754069.3	265.1	0.00	1.70	0.76	YES	
L0047187	0	0.85310E-07	543672.7	3754065.7	265.0	0.00	1.70	0.76	YES	
L0047188	0	0.85310E-07	543672.6	3754062.0	264.9	0.00	1.70	0.76	YES	
L0047189	0	0.85310E-07	543672.6	3754058.3	264.9	0.00	1.70	0.76	YES	
L0047190	0	0.85310E-07	543672.5	3754054.7	264.8	0.00	1.70	0.76	YES	
L0047191	0	0.85310E-07	543672.5	3754051.0	264.7	0.00	1.70	0.76	YES	
L0047192	0	0.85310E-07	543672.5	3754047.4	264.7	0.00	1.70	0.76	YES	
L0047193	0	0.85310E-07	543672.4	3754043.7	264.6	0.00	1.70	0.76	YES	
L0047194	0	0.85310E-07	543672.4	3754040.1	264.5	0.00	1.70	0.76	YES	
L0047195	0	0.85310E-07	543672.4	3754036.4	264.5	0.00	1.70	0.76	YES	
L0047196	0	0.85310E-07	543672.3	3754032.7	264.4	0.00	1.70	0.76	YES	
L0047197	0	0.85310E-07	543672.3	3754029.1	264.3	0.00	1.70	0.76	YES	

L0047198	0	0.85310E-07	543672.3	3754025.4	264.3	0.00	1.70	0.76	YES
L0047199	0	0.85310E-07	543672.2	3754021.8	264.2	0.00	1.70	0.76	YES
L0047200	0	0.85310E-07	543672.2	3754018.1	264.1	0.00	1.70	0.76	YES
L0047201	0	0.85310E-07	543672.2	3754014.4	264.1	0.00	1.70	0.76	YES
L0047202	0	0.85310E-07	543672.1	3754010.8	264.0	0.00	1.70	0.76	YES
L0047203	0	0.85310E-07	543672.1	3754007.1	263.9	0.00	1.70	0.76	YES
L0047204	0	0.85310E-07	543672.0	3754003.5	263.9	0.00	1.70	0.76	YES
L0047205	0	0.85310E-07	543672.0	3753999.8	263.8	0.00	1.70	0.76	YES
L0047206	0	0.85310E-07	543672.0	3753996.2	263.7	0.00	1.70	0.76	YES
L0047207	0	0.85310E-07	543671.9	3753992.5	263.7	0.00	1.70	0.76	YES
L0047208	0	0.85310E-07	543671.9	3753988.8	263.6	0.00	1.70	0.76	YES
L0047209	0	0.85310E-07	543671.9	3753985.2	263.5	0.00	1.70	0.76	YES
L0047210	0	0.85310E-07	543671.8	3753981.5	263.4	0.00	1.70	0.76	YES
L0047211	0	0.85310E-07	543671.8	3753977.9	263.4	0.00	1.70	0.76	YES
L0047212	0	0.85310E-07	543671.8	3753974.2	263.3	0.00	1.70	0.76	YES
L0047213	0	0.85310E-07	543671.7	3753970.6	263.2	0.00	1.70	0.76	YES
L0047214	0	0.85310E-07	543671.7	3753966.9	263.2	0.00	1.70	0.76	YES
L0047215	0	0.85310E-07	543671.6	3753963.2	263.1	0.00	1.70	0.76	YES
L0047216	0	0.85310E-07	543671.6	3753959.6	263.0	0.00	1.70	0.76	YES
L0047217	0	0.85310E-07	543671.6	3753955.9	262.9	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047218	0	0.85310E-07	543671.5	3753952.3	262.9	0.00	1.70	0.76	YES	
L0047219	0	0.85310E-07	543671.5	3753948.6	262.8	0.00	1.70	0.76	YES	
L0047220	0	0.85310E-07	543671.5	3753945.0	262.7	0.00	1.70	0.76	YES	
L0047221	0	0.85310E-07	543671.4	3753941.3	262.7	0.00	1.70	0.76	YES	
L0047222	0	0.85310E-07	543671.4	3753937.6	262.6	0.00	1.70	0.76	YES	
L0047223	0	0.48320E-07	543669.1	3753932.3	262.5	0.00	1.70	0.76	YES	
L0047224	0	0.48320E-07	543665.5	3753932.3	262.5	0.00	1.70	0.76	YES	
L0047225	0	0.48320E-07	543661.8	3753932.3	262.5	0.00	1.70	0.76	YES	
L0047226	0	0.48320E-07	543658.2	3753932.3	262.5	0.00	1.70	0.76	YES	
L0047227	0	0.48320E-07	543654.5	3753932.3	262.5	0.00	1.70	0.76	YES	
L0047228	0	0.48320E-07	543650.9	3753932.3	262.5	0.00	1.70	0.76	YES	
L0047229	0	0.48320E-07	543647.2	3753932.3	262.5	0.00	1.70	0.76	YES	
L0047230	0	0.48320E-07	543643.5	3753932.3	262.6	0.00	1.70	0.76	YES	
L0047231	0	0.48320E-07	543639.9	3753932.3	262.6	0.00	1.70	0.76	YES	
L0047232	0	0.48320E-07	543636.2	3753932.2	262.6	0.00	1.70	0.76	YES	
L0047233	0	0.48320E-07	543632.6	3753932.2	262.6	0.00	1.70	0.76	YES	
L0047234	0	0.48320E-07	543628.9	3753932.2	262.6	0.00	1.70	0.76	YES	

L0047235	0	0.48320E-07	543625.2	3753932.2	262.6	0.00	1.70	0.76	YES
L0047236	0	0.48320E-07	543621.6	3753932.2	262.6	0.00	1.70	0.76	YES
L0047237	0	0.48320E-07	543617.9	3753932.2	262.6	0.00	1.70	0.76	YES
L0047238	0	0.48320E-07	543614.3	3753932.2	262.6	0.00	1.70	0.76	YES
L0047239	0	0.48320E-07	543610.6	3753932.2	262.6	0.00	1.70	0.76	YES
L0047240	0	0.48320E-07	543607.0	3753932.2	262.6	0.00	1.70	0.76	YES
L0047241	0	0.48320E-07	543603.3	3753932.2	262.7	0.00	1.70	0.76	YES
L0047242	0	0.48320E-07	543599.6	3753932.2	262.7	0.00	1.70	0.76	YES
L0047243	0	0.48320E-07	543596.0	3753932.2	262.7	0.00	1.70	0.76	YES
L0047244	0	0.48320E-07	543592.3	3753932.1	262.7	0.00	1.70	0.76	YES
L0047245	0	0.48320E-07	543588.7	3753932.1	262.7	0.00	1.70	0.76	YES
L0047246	0	0.48320E-07	543585.0	3753932.1	262.7	0.00	1.70	0.76	YES
L0047247	0	0.48320E-07	543581.4	3753932.1	262.7	0.00	1.70	0.76	YES
L0047248	0	0.48320E-07	543577.7	3753932.1	262.7	0.00	1.70	0.76	YES
L0047249	0	0.48320E-07	543574.0	3753932.1	262.8	0.00	1.70	0.76	YES
L0047250	0	0.48320E-07	543570.4	3753932.1	262.8	0.00	1.70	0.76	YES
L0047251	0	0.48320E-07	543566.7	3753932.1	262.8	0.00	1.70	0.76	YES
L0047252	0	0.48320E-07	543563.1	3753932.1	262.8	0.00	1.70	0.76	YES
L0047253	0	0.48320E-07	543559.4	3753932.1	262.8	0.00	1.70	0.76	YES
L0047254	0	0.48320E-07	543555.8	3753932.1	262.8	0.00	1.70	0.76	YES
L0047255	0	0.48320E-07	543552.1	3753932.0	262.9	0.00	1.70	0.76	YES
L0047256	0	0.48320E-07	543548.4	3753932.0	262.9	0.00	1.70	0.76	YES
L0047257	0	0.48320E-07	543544.8	3753932.0	262.9	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047258	0	0.48320E-07	543541.1	3753932.0	262.9	0.00	1.70	0.76	YES	
L0047259	0	0.48320E-07	543537.5	3753932.0	262.9	0.00	1.70	0.76	YES	
L0047260	0	0.48320E-07	543533.8	3753932.0	262.9	0.00	1.70	0.76	YES	
L0047261	0	0.48320E-07	543530.2	3753932.0	262.9	0.00	1.70	0.76	YES	
L0047262	0	0.48320E-07	543526.5	3753932.0	263.0	0.00	1.70	0.76	YES	
L0047263	0	0.48320E-07	543522.8	3753932.0	263.0	0.00	1.70	0.76	YES	
L0047264	0	0.48320E-07	543519.2	3753932.0	263.1	0.00	1.70	0.76	YES	
L0047265	0	0.48320E-07	543515.5	3753932.0	263.1	0.00	1.70	0.76	YES	
L0047266	0	0.48320E-07	543511.9	3753932.0	263.1	0.00	1.70	0.76	YES	
L0047267	0	0.48320E-07	543508.2	3753931.9	263.2	0.00	1.70	0.76	YES	
L0047268	0	0.48320E-07	543504.5	3753931.9	263.2	0.00	1.70	0.76	YES	
L0047269	0	0.48320E-07	543500.9	3753931.9	263.2	0.00	1.70	0.76	YES	
L0047270	0	0.48320E-07	543497.2	3753931.9	263.3	0.00	1.70	0.76	YES	
L0047271	0	0.48320E-07	543493.6	3753931.9	263.3	0.00	1.70	0.76	YES	

L0047272	0	0.48320E-07	543489.9	3753931.9	263.3	0.00	1.70	0.76	YES	
L0047273	0	0.48320E-07	543486.3	3753931.9	263.4	0.00	1.70	0.76	YES	
L0047274	0	0.48320E-07	543482.6	3753931.9	263.4	0.00	1.70	0.76	YES	
L0047275	0	0.48320E-07	543478.9	3753931.9	263.4	0.00	1.70	0.76	YES	
L0047276	0	0.48320E-07	543475.3	3753931.9	263.4	0.00	1.70	0.76	YES	
L0047277	0	0.48320E-07	543471.6	3753931.9	263.4	0.00	1.70	0.76	YES	
L0047278	0	0.48320E-07	543468.0	3753931.9	263.4	0.00	1.70	0.76	YES	
L0047279	0	0.48320E-07	543464.3	3753931.8	263.5	0.00	1.70	0.76	YES	
L0047280	0	0.48320E-07	543460.7	3753931.8	263.5	0.00	1.70	0.76	YES	
L0047281	0	0.48320E-07	543457.0	3753931.8	263.5	0.00	1.70	0.76	YES	
L0047282	0	0.48320E-07	543453.3	3753931.8	263.5	0.00	1.70	0.76	YES	
L0047283	0	0.48320E-07	543449.7	3753931.8	263.5	0.00	1.70	0.76	YES	
L0047284	0	0.48320E-07	543446.0	3753931.8	263.5	0.00	1.70	0.76	YES	
L0047285	0	0.48320E-07	543442.4	3753931.8	263.6	0.00	1.70	0.76	YES	
L0047286	0	0.48320E-07	543438.7	3753931.8	263.6	0.00	1.70	0.76	YES	
L0047287	0	0.48320E-07	543435.1	3753931.8	263.6	0.00	1.70	0.76	YES	
L0047288	0	0.48320E-07	543431.4	3753931.8	263.6	0.00	1.70	0.76	YES	
L0047289	0	0.48320E-07	543427.7	3753931.8	263.6	0.00	1.70	0.76	YES	
L0047290	0	0.48320E-07	543424.1	3753931.8	263.6	0.00	1.70	0.76	YES	
L0047291	0	0.48320E-07	543420.4	3753931.7	263.7	0.00	1.70	0.76	YES	
L0047292	0	0.48320E-07	543416.8	3753931.7	263.7	0.00	1.70	0.76	YES	
L0047293	0	0.48320E-07	543413.1	3753931.7	263.7	0.00	1.70	0.76	YES	
L0047294	0	0.48320E-07	543409.5	3753931.7	263.7	0.00	1.70	0.76	YES	
L0047295	0	0.48320E-07	543405.8	3753931.7	263.7	0.00	1.70	0.76	YES	
L0047296	0	0.48320E-07	543402.1	3753931.7	263.7	0.00	1.70	0.76	YES	
L0047297	0	0.48320E-07	543398.5	3753931.7	263.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047298	0	0.48320E-07	543394.8	3753931.7	263.7	0.00	1.70	0.76	YES	
L0047299	0	0.48320E-07	543391.2	3753931.7	263.8	0.00	1.70	0.76	YES	
L0047300	0	0.48320E-07	543387.5	3753931.7	263.8	0.00	1.70	0.76	YES	
L0047301	0	0.48320E-07	543383.8	3753931.7	263.8	0.00	1.70	0.76	YES	
L0047302	0	0.48320E-07	543380.2	3753931.7	263.8	0.00	1.70	0.76	YES	
L0047303	0	0.48320E-07	543376.5	3753931.6	263.8	0.00	1.70	0.76	YES	
L0047304	0	0.48320E-07	543372.9	3753931.6	263.8	0.00	1.70	0.76	YES	
L0047305	0	0.48320E-07	543369.2	3753931.6	263.8	0.00	1.70	0.76	YES	
L0047306	0	0.48320E-07	543365.6	3753931.6	263.8	0.00	1.70	0.76	YES	
L0047307	0	0.48320E-07	543361.9	3753931.6	263.8	0.00	1.70	0.76	YES	
L0047308	0	0.48320E-07	543358.2	3753931.6	263.9	0.00	1.70	0.76	YES	

L0047309	0	0.48320E-07	543354.6	3753931.6	263.9	0.00	1.70	0.76	YES	
L0047310	0	0.48320E-07	543350.9	3753931.6	263.9	0.00	1.70	0.76	YES	
L0047311	0	0.48320E-07	543347.3	3753931.6	263.9	0.00	1.70	0.76	YES	
L0047312	0	0.48320E-07	543343.6	3753931.6	263.9	0.00	1.70	0.76	YES	
L0047313	0	0.48320E-07	543340.0	3753931.6	263.9	0.00	1.70	0.76	YES	
L0047314	0	0.48320E-07	543336.3	3753931.6	263.9	0.00	1.70	0.76	YES	
L0047315	0	0.48320E-07	543332.6	3753931.5	263.9	0.00	1.70	0.76	YES	
L0047316	0	0.48320E-07	543329.0	3753931.5	263.9	0.00	1.70	0.76	YES	
L0047317	0	0.48320E-07	543325.3	3753931.5	263.9	0.00	1.70	0.76	YES	
L0047318	0	0.48320E-07	543321.7	3753931.5	263.9	0.00	1.70	0.76	YES	
L0047319	0	0.48320E-07	543318.0	3753931.5	263.9	0.00	1.70	0.76	YES	
L0047320	0	0.48320E-07	543314.4	3753931.5	263.9	0.00	1.70	0.76	YES	
L0047321	0	0.48320E-07	543310.7	3753931.5	263.9	0.00	1.70	0.76	YES	
L0047322	0	0.48320E-07	543307.0	3753931.5	263.9	0.00	1.70	0.76	YES	
L0047323	0	0.48320E-07	543303.4	3753931.5	263.9	0.00	1.70	0.76	YES	
L0047324	0	0.48320E-07	543299.7	3753931.5	263.9	0.00	1.70	0.76	YES	
L0047325	0	0.48320E-07	543296.1	3753931.5	263.9	0.00	1.70	0.76	YES	
L0047326	0	0.48320E-07	543292.4	3753931.4	263.9	0.00	1.70	0.76	YES	
L0047327	0	0.48320E-07	543288.8	3753931.4	263.9	0.00	1.70	0.76	YES	
L0047328	0	0.48320E-07	543285.1	3753931.4	263.9	0.00	1.70	0.76	YES	
L0047329	0	0.48320E-07	543281.4	3753931.4	263.9	0.00	1.70	0.76	YES	
L0047330	0	0.48320E-07	543277.8	3753931.4	263.9	0.00	1.70	0.76	YES	
L0047331	0	0.48320E-07	543274.1	3753931.4	263.9	0.00	1.70	0.76	YES	
L0047332	0	0.48320E-07	543270.5	3753931.4	263.9	0.00	1.70	0.76	YES	
L0047333	0	0.48320E-07	543266.8	3753931.4	263.9	0.00	1.70	0.76	YES	
L0047334	0	0.48320E-07	543263.1	3753931.4	264.0	0.00	1.70	0.76	YES	
L0047335	0	0.48320E-07	543259.5	3753931.4	264.0	0.00	1.70	0.76	YES	
L0047336	0	0.48320E-07	543255.8	3753931.4	264.0	0.00	1.70	0.76	YES	
L0047337	0	0.48320E-07	543252.2	3753931.4	264.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047338	0	0.48320E-07	543248.5	3753931.3	264.0	0.00	1.70	0.76	YES	
L0047339	0	0.48320E-07	543244.9	3753931.3	264.0	0.00	1.70	0.76	YES	
L0047340	0	0.48320E-07	543241.2	3753931.3	264.0	0.00	1.70	0.76	YES	
L0047341	0	0.48320E-07	543237.5	3753931.3	264.1	0.00	1.70	0.76	YES	
L0047342	0	0.48320E-07	543233.9	3753931.3	264.1	0.00	1.70	0.76	YES	
L0047343	0	0.48320E-07	543230.2	3753931.3	264.1	0.00	1.70	0.76	YES	
L0047344	0	0.48320E-07	543226.6	3753931.3	264.1	0.00	1.70	0.76	YES	
L0047345	0	0.48320E-07	543222.9	3753931.3	264.1	0.00	1.70	0.76	YES	

L0047346	0	0.48320E-07	543219.3	3753931.3	264.1	0.00	1.70	0.76	YES
L0047347	0	0.48320E-07	543215.6	3753931.3	264.1	0.00	1.70	0.76	YES
L0047348	0	0.48320E-07	543211.9	3753931.3	264.1	0.00	1.70	0.76	YES
L0047349	0	0.48320E-07	543208.3	3753931.3	264.2	0.00	1.70	0.76	YES
L0047350	0	0.48320E-07	543204.6	3753931.2	264.2	0.00	1.70	0.76	YES
L0047351	0	0.48320E-07	543201.0	3753931.2	264.2	0.00	1.70	0.76	YES
L0047352	0	0.48320E-07	543197.3	3753931.2	264.2	0.00	1.70	0.76	YES
L0047353	0	0.48320E-07	543193.7	3753931.2	264.2	0.00	1.70	0.76	YES
L0047354	0	0.48320E-07	543190.0	3753931.2	264.2	0.00	1.70	0.76	YES
L0047355	0	0.48320E-07	543186.3	3753931.2	264.2	0.00	1.70	0.76	YES
L0047356	0	0.48320E-07	543182.7	3753931.2	264.2	0.00	1.70	0.76	YES
L0047357	0	0.48320E-07	543179.0	3753931.2	264.2	0.00	1.70	0.76	YES
L0047358	0	0.48320E-07	543175.4	3753931.2	264.3	0.00	1.70	0.76	YES
L0047359	0	0.48320E-07	543171.7	3753931.2	264.3	0.00	1.70	0.76	YES
L0047360	0	0.48320E-07	543168.1	3753931.2	264.3	0.00	1.70	0.76	YES
L0047361	0	0.48320E-07	543164.4	3753931.2	264.3	0.00	1.70	0.76	YES
L0047362	0	0.48320E-07	543160.7	3753931.1	264.3	0.00	1.70	0.76	YES
L0047363	0	0.48320E-07	543157.1	3753931.1	264.3	0.00	1.70	0.76	YES
L0047364	0	0.48320E-07	543153.4	3753931.1	264.3	0.00	1.70	0.76	YES
L0047365	0	0.48320E-07	543149.8	3753931.1	264.3	0.00	1.70	0.76	YES
L0047366	0	0.48320E-07	543146.1	3753931.1	264.3	0.00	1.70	0.76	YES
L0047367	0	0.48320E-07	543142.4	3753931.1	264.3	0.00	1.70	0.76	YES
L0047368	0	0.48320E-07	543138.8	3753931.1	264.3	0.00	1.70	0.76	YES
L0047369	0	0.48320E-07	543135.1	3753931.1	264.3	0.00	1.70	0.76	YES
L0047370	0	0.48320E-07	543131.5	3753931.1	264.3	0.00	1.70	0.76	YES
L0047371	0	0.48320E-07	543127.8	3753931.1	264.3	0.00	1.70	0.76	YES
L0047372	0	0.48320E-07	543124.2	3753931.1	264.4	0.00	1.70	0.76	YES
L0047373	0	0.48320E-07	543120.5	3753931.1	264.4	0.00	1.70	0.76	YES
L0047374	0	0.48320E-07	543116.8	3753931.0	264.4	0.00	1.70	0.76	YES
L0047375	0	0.48320E-07	543113.2	3753931.0	264.4	0.00	1.70	0.76	YES
L0047376	0	0.48320E-07	543109.5	3753931.0	264.4	0.00	1.70	0.76	YES
L0047377	0	0.48320E-07	543105.9	3753931.0	264.4	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047378	0	0.48320E-07	543102.2	3753931.0	264.4	0.00	1.70	0.76	YES	
L0047379	0	0.48320E-07	543098.6	3753931.0	264.4	0.00	1.70	0.76	YES	
L0047380	0	0.48320E-07	543094.9	3753931.0	264.4	0.00	1.70	0.76	YES	
L0047381	0	0.48320E-07	543091.2	3753931.0	264.4	0.00	1.70	0.76	YES	
L0047382	0	0.48320E-07	543087.6	3753931.0	264.4	0.00	1.70	0.76	YES	

L0047383	0	0.48320E-07	543083.9	3753931.0	264.4	0.00	1.70	0.76	YES	
L0047384	0	0.48320E-07	543080.3	3753931.0	264.4	0.00	1.70	0.76	YES	
L0047385	0	0.48320E-07	543076.6	3753931.0	264.4	0.00	1.70	0.76	YES	
L0047386	0	0.48320E-07	543073.0	3753930.9	264.4	0.00	1.70	0.76	YES	
L0047387	0	0.48320E-07	543069.3	3753930.9	264.4	0.00	1.70	0.76	YES	
L0047388	0	0.48320E-07	543065.6	3753930.9	264.4	0.00	1.70	0.76	YES	
L0047389	0	0.48320E-07	543062.0	3753930.9	264.4	0.00	1.70	0.76	YES	
L0047390	0	0.48320E-07	543058.3	3753930.9	264.4	0.00	1.70	0.76	YES	
L0047391	0	0.48320E-07	543054.7	3753930.9	264.4	0.00	1.70	0.76	YES	
L0047392	0	0.48320E-07	543051.0	3753930.9	264.4	0.00	1.70	0.76	YES	
L0047393	0	0.48320E-07	543047.3	3753930.9	264.4	0.00	1.70	0.76	YES	
L0047394	0	0.48320E-07	543043.7	3753930.9	264.4	0.00	1.70	0.76	YES	
L0047395	0	0.48320E-07	543040.0	3753930.9	264.4	0.00	1.70	0.76	YES	
L0047396	0	0.48320E-07	543036.4	3753930.9	264.4	0.00	1.70	0.76	YES	
L0047397	0	0.48320E-07	543032.7	3753930.8	264.4	0.00	1.70	0.76	YES	
L0047398	0	0.48320E-07	543029.1	3753930.8	264.4	0.00	1.70	0.76	YES	
L0047399	0	0.48320E-07	543025.4	3753930.8	264.4	0.00	1.70	0.76	YES	
L0047400	0	0.48320E-07	543021.7	3753930.8	264.4	0.00	1.70	0.76	YES	
L0047401	0	0.48320E-07	543018.1	3753930.8	264.4	0.00	1.70	0.76	YES	
L0047402	0	0.48320E-07	543014.4	3753930.8	264.4	0.00	1.70	0.76	YES	
L0047403	0	0.48320E-07	543010.8	3753930.8	264.4	0.00	1.70	0.76	YES	
L0047404	0	0.48320E-07	543007.1	3753930.8	264.4	0.00	1.70	0.76	YES	
L0047405	0	0.48320E-07	543003.5	3753930.8	264.4	0.00	1.70	0.76	YES	
L0047406	0	0.48320E-07	542999.8	3753930.8	264.4	0.00	1.70	0.76	YES	
L0047407	0	0.48320E-07	542996.1	3753930.8	264.4	0.00	1.70	0.76	YES	
L0047408	0	0.48320E-07	542992.5	3753930.8	264.4	0.00	1.70	0.76	YES	
L0047409	0	0.48320E-07	542988.8	3753930.7	264.4	0.00	1.70	0.76	YES	
L0047410	0	0.48320E-07	542985.2	3753930.7	264.4	0.00	1.70	0.76	YES	
L0047411	0	0.48320E-07	542981.5	3753930.7	264.4	0.00	1.70	0.76	YES	
L0047412	0	0.48320E-07	542977.9	3753930.7	264.4	0.00	1.70	0.76	YES	
L0047413	0	0.48320E-07	542974.2	3753930.7	264.4	0.00	1.70	0.76	YES	
L0047414	0	0.48320E-07	542970.5	3753930.7	264.4	0.00	1.70	0.76	YES	
L0047415	0	0.48320E-07	542966.9	3753930.7	264.4	0.00	1.70	0.76	YES	
L0047416	0	0.48320E-07	542963.2	3753930.7	264.4	0.00	1.70	0.76	YES	
L0047417	0	0.48320E-07	542959.6	3753930.7	264.4	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047418	0	0.48320E-07	542955.9	3753930.7	264.5	0.00	1.70	0.76	YES	
L0047419	0	0.48320E-07	542952.3	3753930.7	264.5	0.00	1.70	0.76	YES	

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L0047420        0   0.48320E-07  542948.6 3753930.7   264.5     0.00     1.70     0.76     YES
L0047421        0   0.48320E-07  542944.9 3753930.6   264.5     0.00     1.70     0.76     YES
L0047422        0   0.48320E-07  542941.3 3753930.6   264.5     0.00     1.70     0.76     YES
L0047423        0   0.48320E-07  542937.6 3753930.6   264.5     0.00     1.70     0.76     YES
L0047424        0   0.48320E-07  542934.0 3753930.6   264.6     0.00     1.70     0.76     YES
L0047425        0   0.48320E-07  542930.3 3753930.6   264.6     0.00     1.70     0.76     YES
L0047426        0   0.48320E-07  542926.6 3753930.6   264.6     0.00     1.70     0.76     YES
L0047427        0   0.48320E-07  542923.0 3753930.6   264.6     0.00     1.70     0.76     YES
L0047428        0   0.48320E-07  542919.3 3753930.6   264.6     0.00     1.70     0.76     YES
L0047429        0   0.48320E-07  542915.7 3753930.6   264.6     0.00     1.70     0.76     YES
L0047430        0   0.48320E-07  542912.0 3753930.6   264.7     0.00     1.70     0.76     YES
L0047431        0   0.48320E-07  542908.4 3753930.6   264.7     0.00     1.70     0.76     YES
L0047432        0   0.48320E-07  542904.7 3753930.6   264.7     0.00     1.70     0.76     YES
L0047433        0   0.48320E-07  542901.0 3753930.5   264.7     0.00     1.70     0.76     YES
L0047434        0   0.48320E-07  542897.4 3753930.5   264.7     0.00     1.70     0.76     YES
L0047435        0   0.48320E-07  542893.7 3753930.5   264.7     0.00     1.70     0.76     YES
L0047436        0   0.48320E-07  542890.1 3753930.5   264.7     0.00     1.70     0.76     YES
L0047437        0   0.48320E-07  542886.4 3753930.5   264.8     0.00     1.70     0.76     YES
L0047438        0   0.48320E-07  542882.8 3753930.5   264.8     0.00     1.70     0.76     YES
L0047439        0   0.48320E-07  542879.1 3753930.5   264.8     0.00     1.70     0.76     YES
L0047440        0   0.48320E-07  542875.4 3753930.5   264.8     0.00     1.70     0.76     YES
L0047441        0   0.48320E-07  542871.8 3753930.5   264.9     0.00     1.70     0.76     YES
L0047442        0   0.48320E-07  542868.1 3753930.5   264.9     0.00     1.70     0.76     YES
L0047443        0   0.48320E-07  542864.5 3753930.5   264.9     0.00     1.70     0.76     YES
L0047444        0   0.48320E-07  542860.8 3753930.5   264.9     0.00     1.70     0.76     YES
L0047445        0   0.48320E-07  542857.2 3753930.4   264.9     0.00     1.70     0.76     YES
L0047446        0   0.48320E-07  542853.5 3753930.4   265.0     0.00     1.70     0.76     YES
L0047447        0   0.48320E-07  542849.8 3753930.4   265.0     0.00     1.70     0.76     YES
L0047448        0   0.48320E-07  542846.2 3753930.4   265.0     0.00     1.70     0.76     YES
L0047449        0   0.48320E-07  542842.5 3753930.4   265.0     0.00     1.70     0.76     YES
L0047450        0   0.48320E-07  542838.9 3753930.4   265.0     0.00     1.70     0.76     YES
L0047451        0   0.48320E-07  542835.2 3753930.4   265.1     0.00     1.70     0.76     YES
L0047452        0   0.48320E-07  542831.6 3753930.4   265.1     0.00     1.70     0.76     YES
L0047453        0   0.48320E-07  542827.9 3753930.4   265.1     0.00     1.70     0.76     YES
L0047454        0   0.48320E-07  542824.2 3753930.4   265.2     0.00     1.70     0.76     YES
L0047455        0   0.48320E-07  542820.6 3753930.4   265.2     0.00     1.70     0.76     YES
L0047456        0   0.48320E-07  542816.9 3753930.4   265.2     0.00     1.70     0.76     YES
L0047457        0   0.48320E-07  542813.3 3753930.3   265.2     0.00     1.70     0.76     YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY

L0047458	0	0.48320E-07	542809.6	3753930.3	265.3	0.00	1.70	0.76	YES
L0047459	0	0.48320E-07	542805.9	3753930.3	265.3	0.00	1.70	0.76	YES
L0047460	0	0.48320E-07	542802.3	3753930.3	265.3	0.00	1.70	0.76	YES
L0047461	0	0.48320E-07	542798.6	3753930.3	265.4	0.00	1.70	0.76	YES
L0047462	0	0.48320E-07	542795.0	3753930.3	265.4	0.00	1.70	0.76	YES
L0047463	0	0.48320E-07	542791.3	3753930.3	265.4	0.00	1.70	0.76	YES
L0047464	0	0.48320E-07	542787.7	3753930.3	265.4	0.00	1.70	0.76	YES
L0047465	0	0.48320E-07	542784.0	3753930.3	265.4	0.00	1.70	0.76	YES
L0047466	0	0.48320E-07	542780.3	3753930.3	265.5	0.00	1.70	0.76	YES
L0047467	0	0.48320E-07	542776.7	3753930.3	265.5	0.00	1.70	0.76	YES
L0047468	0	0.48320E-07	542773.0	3753930.3	265.5	0.00	1.70	0.76	YES
L0047469	0	0.48320E-07	542769.4	3753930.2	265.5	0.00	1.70	0.76	YES
L0047470	0	0.48320E-07	542765.7	3753930.2	265.6	0.00	1.70	0.76	YES
L0047471	0	0.48320E-07	542762.1	3753930.2	265.6	0.00	1.70	0.76	YES
L0047472	0	0.48320E-07	542758.4	3753930.2	265.6	0.00	1.70	0.76	YES
L0047473	0	0.48320E-07	542754.7	3753930.2	265.6	0.00	1.70	0.76	YES
L0047474	0	0.48320E-07	542751.1	3753930.2	265.7	0.00	1.70	0.76	YES
L0047475	0	0.48320E-07	542747.4	3753930.2	265.7	0.00	1.70	0.76	YES
L0047476	0	0.48320E-07	542743.8	3753930.2	265.7	0.00	1.70	0.76	YES
L0047477	0	0.48320E-07	542740.1	3753930.2	265.7	0.00	1.70	0.76	YES
L0047478	0	0.48320E-07	542736.5	3753930.2	265.8	0.00	1.70	0.76	YES
L0047479	0	0.48320E-07	542732.8	3753930.2	265.8	0.00	1.70	0.76	YES
L0047480	0	0.48320E-07	542729.1	3753930.1	265.8	0.00	1.70	0.76	YES
L0047481	0	0.48320E-07	542725.5	3753930.1	265.8	0.00	1.70	0.76	YES
L0047482	0	0.48320E-07	542721.8	3753930.1	265.9	0.00	1.70	0.76	YES
L0047483	0	0.48320E-07	542718.2	3753930.1	265.9	0.00	1.70	0.76	YES
L0047484	0	0.48320E-07	542714.5	3753930.1	265.9	0.00	1.70	0.76	YES
L0047485	0	0.48320E-07	542710.9	3753930.1	265.9	0.00	1.70	0.76	YES
L0047486	0	0.48320E-07	542707.2	3753930.1	266.0	0.00	1.70	0.76	YES
L0047487	0	0.48320E-07	542703.5	3753930.1	266.0	0.00	1.70	0.76	YES
L0047488	0	0.48320E-07	542699.9	3753930.1	266.0	0.00	1.70	0.76	YES
L0047489	0	0.48320E-07	542696.2	3753930.1	266.1	0.00	1.70	0.76	YES
L0047490	0	0.48320E-07	542692.6	3753930.1	266.1	0.00	1.70	0.76	YES
L0047491	0	0.48320E-07	542688.9	3753930.1	266.1	0.00	1.70	0.76	YES
L0047492	0	0.48320E-07	542685.2	3753930.0	266.1	0.00	1.70	0.76	YES
L0047493	0	0.48320E-07	542681.6	3753930.0	266.2	0.00	1.70	0.76	YES
L0047494	0	0.48320E-07	542677.9	3753930.0	266.2	0.00	1.70	0.76	YES
L0047495	0	0.48320E-07	542674.3	3753930.0	266.2	0.00	1.70	0.76	YES
L0047496	0	0.48320E-07	542670.6	3753930.0	266.2	0.00	1.70	0.76	YES
L0047497	0	0.48320E-07	542667.0	3753930.0	266.2	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER	EMISSION RATE	BASE	RELEASE	INIT.	INIT.	URBAN	EMISSION RATE

SOURCE ID	PART. CATS.	(GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE	SCALAR VARY BY
L0047498	0	0.48320E-07	542663.3	3753930.0	266.2	0.00	1.70	0.76	YES	
L0047499	0	0.48320E-07	542659.6	3753930.0	266.3	0.00	1.70	0.76	YES	
L0047500	0	0.48320E-07	542656.0	3753930.0	266.3	0.00	1.70	0.76	YES	
L0047501	0	0.48320E-07	542652.3	3753930.0	266.3	0.00	1.70	0.76	YES	
L0047502	0	0.48320E-07	542648.7	3753930.0	266.4	0.00	1.70	0.76	YES	
L0047503	0	0.48320E-07	542645.0	3753930.0	266.4	0.00	1.70	0.76	YES	
L0047504	0	0.48320E-07	542641.4	3753929.9	266.4	0.00	1.70	0.76	YES	
L0047505	0	0.48320E-07	542637.7	3753929.9	266.4	0.00	1.70	0.76	YES	
L0047506	0	0.48320E-07	542634.0	3753929.9	266.5	0.00	1.70	0.76	YES	
L0047507	0	0.48320E-07	542630.4	3753929.9	266.5	0.00	1.70	0.76	YES	
L0047508	0	0.48320E-07	542626.7	3753929.9	266.5	0.00	1.70	0.76	YES	
L0047509	0	0.48320E-07	542623.1	3753929.9	266.5	0.00	1.70	0.76	YES	
L0047510	0	0.48320E-07	542619.4	3753929.9	266.5	0.00	1.70	0.76	YES	
L0047511	0	0.48320E-07	542615.8	3753929.9	266.6	0.00	1.70	0.76	YES	
L0047512	0	0.48320E-07	542612.1	3753929.9	266.6	0.00	1.70	0.76	YES	
L0047513	0	0.48320E-07	542608.4	3753929.9	266.6	0.00	1.70	0.76	YES	
L0047514	0	0.48320E-07	542604.8	3753929.9	266.6	0.00	1.70	0.76	YES	
L0047515	0	0.48320E-07	542601.1	3753929.9	266.6	0.00	1.70	0.76	YES	
L0047516	0	0.48320E-07	542597.5	3753929.8	266.6	0.00	1.70	0.76	YES	
L0047517	0	0.48320E-07	542593.8	3753929.8	266.7	0.00	1.70	0.76	YES	
L0047518	0	0.48320E-07	542590.2	3753929.8	266.7	0.00	1.70	0.76	YES	
L0047519	0	0.48320E-07	542586.5	3753929.8	266.7	0.00	1.70	0.76	YES	
L0047520	0	0.48320E-07	542582.8	3753929.8	266.7	0.00	1.70	0.76	YES	
L0047521	0	0.48320E-07	542579.2	3753929.8	266.7	0.00	1.70	0.76	YES	
L0047522	0	0.48320E-07	542575.5	3753929.8	266.8	0.00	1.70	0.76	YES	
L0047523	0	0.48320E-07	542571.9	3753929.8	266.8	0.00	1.70	0.76	YES	
L0047524	0	0.48320E-07	542568.2	3753929.8	266.8	0.00	1.70	0.76	YES	
L0047525	0	0.48320E-07	542564.5	3753929.8	266.8	0.00	1.70	0.76	YES	
L0047526	0	0.48320E-07	542560.9	3753929.8	266.9	0.00	1.70	0.76	YES	
L0047527	0	0.48320E-07	542557.2	3753929.8	266.9	0.00	1.70	0.76	YES	
L0047528	0	0.48320E-07	542553.6	3753929.7	266.9	0.00	1.70	0.76	YES	
L0047529	0	0.48320E-07	542549.9	3753929.7	266.9	0.00	1.70	0.76	YES	
L0047530	0	0.48320E-07	542546.3	3753929.7	266.9	0.00	1.70	0.76	YES	
L0047531	0	0.48320E-07	542542.6	3753929.7	266.9	0.00	1.70	0.76	YES	
L0047532	0	0.48320E-07	542538.9	3753929.7	266.9	0.00	1.70	0.76	YES	
L0047533	0	0.48320E-07	542535.3	3753929.7	267.0	0.00	1.70	0.76	YES	
L0047534	0	0.48320E-07	542531.6	3753929.7	267.0	0.00	1.70	0.76	YES	
L0047535	0	0.48320E-07	542528.0	3753929.7	267.0	0.00	1.70	0.76	YES	
L0047536	0	0.48320E-07	542524.3	3753929.7	267.0	0.00	1.70	0.76	YES	
L0047537	0	0.48320E-07	542520.7	3753929.7	267.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047538	0	0.48320E-07	542517.0	3753929.7	267.0	0.00	1.70	0.76	YES	
L0047539	0	0.48320E-07	542513.3	3753929.7	267.1	0.00	1.70	0.76	YES	
L0047540	0	0.48320E-07	542509.7	3753929.6	267.1	0.00	1.70	0.76	YES	
L0047541	0	0.48320E-07	542506.0	3753929.6	267.1	0.00	1.70	0.76	YES	
L0047542	0	0.48320E-07	542502.4	3753929.6	267.1	0.00	1.70	0.76	YES	
L0047543	0	0.48320E-07	542498.7	3753929.6	267.1	0.00	1.70	0.76	YES	
L0047544	0	0.48320E-07	542495.1	3753929.6	267.1	0.00	1.70	0.76	YES	
L0047545	0	0.48320E-07	542491.4	3753929.6	267.2	0.00	1.70	0.76	YES	
L0047546	0	0.48320E-07	542487.7	3753929.6	267.2	0.00	1.70	0.76	YES	
L0047547	0	0.48320E-07	542484.1	3753929.6	267.2	0.00	1.70	0.76	YES	
L0047548	0	0.48320E-07	542480.4	3753929.6	267.2	0.00	1.70	0.76	YES	
L0047549	0	0.48320E-07	542476.8	3753929.6	267.2	0.00	1.70	0.76	YES	
L0047550	0	0.48320E-07	542473.1	3753929.6	267.2	0.00	1.70	0.76	YES	
L0047551	0	0.48320E-07	542469.5	3753929.5	267.3	0.00	1.70	0.76	YES	
L0047552	0	0.48320E-07	542465.8	3753929.5	267.3	0.00	1.70	0.76	YES	
L0047553	0	0.48320E-07	542462.1	3753929.5	267.3	0.00	1.70	0.76	YES	
L0047554	0	0.48320E-07	542458.5	3753929.5	267.3	0.00	1.70	0.76	YES	
L0047555	0	0.48320E-07	542454.8	3753929.5	267.3	0.00	1.70	0.76	YES	
L0047556	0	0.48320E-07	542451.2	3753929.5	267.4	0.00	1.70	0.76	YES	
L0047557	0	0.48320E-07	542447.5	3753929.5	267.4	0.00	1.70	0.76	YES	
L0047558	0	0.48320E-07	542443.8	3753929.5	267.4	0.00	1.70	0.76	YES	
L0047559	0	0.48320E-07	542440.2	3753929.5	267.4	0.00	1.70	0.76	YES	
L0047560	0	0.48320E-07	542436.5	3753929.5	267.4	0.00	1.70	0.76	YES	
L0047561	0	0.48320E-07	542432.9	3753929.5	267.4	0.00	1.70	0.76	YES	
L0047562	0	0.48320E-07	542429.2	3753929.5	267.5	0.00	1.70	0.76	YES	
L0047563	0	0.48320E-07	542425.6	3753929.4	267.5	0.00	1.70	0.76	YES	
L0047564	0	0.48320E-07	542421.9	3753929.4	267.5	0.00	1.70	0.76	YES	
L0047565	0	0.48320E-07	542418.2	3753929.4	267.5	0.00	1.70	0.76	YES	
L0047566	0	0.48320E-07	542414.6	3753929.4	267.5	0.00	1.70	0.76	YES	
L0047567	0	0.48320E-07	542410.9	3753929.4	267.5	0.00	1.70	0.76	YES	
L0047568	0	0.48320E-07	542407.3	3753929.4	267.6	0.00	1.70	0.76	YES	
L0047569	0	0.48320E-07	542403.6	3753929.4	267.6	0.00	1.70	0.76	YES	
L0047570	0	0.48320E-07	542400.0	3753929.4	267.6	0.00	1.70	0.76	YES	
L0047571	0	0.48320E-07	542396.3	3753929.4	267.6	0.00	1.70	0.76	YES	
L0047572	0	0.48320E-07	542392.6	3753929.4	267.6	0.00	1.70	0.76	YES	
L0047573	0	0.48320E-07	542389.0	3753929.4	267.7	0.00	1.70	0.76	YES	
L0047574	0	0.48320E-07	542385.3	3753929.4	267.7	0.00	1.70	0.76	YES	
L0047575	0	0.48320E-07	542381.7	3753929.3	267.7	0.00	1.70	0.76	YES	
L0047576	0	0.48320E-07	542378.0	3753929.3	267.7	0.00	1.70	0.76	YES	
L0047577	0	0.48320E-07	542374.4	3753929.3	267.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047578	0	0.48320E-07	542370.7	3753929.3	267.8	0.00	1.70	0.76	YES	
L0047579	0	0.48320E-07	542367.0	3753929.3	267.8	0.00	1.70	0.76	YES	
L0047580	0	0.48320E-07	542363.4	3753929.3	267.8	0.00	1.70	0.76	YES	
L0047581	0	0.48320E-07	542359.7	3753929.3	267.8	0.00	1.70	0.76	YES	
L0047582	0	0.48320E-07	542356.1	3753929.3	267.8	0.00	1.70	0.76	YES	
L0047583	0	0.48320E-07	542352.4	3753929.3	267.9	0.00	1.70	0.76	YES	
L0047584	0	0.48320E-07	542348.7	3753929.3	267.9	0.00	1.70	0.76	YES	
L0047585	0	0.48320E-07	542345.1	3753929.3	267.9	0.00	1.70	0.76	YES	
L0047586	0	0.48320E-07	542341.4	3753929.3	267.9	0.00	1.70	0.76	YES	
L0047587	0	0.48320E-07	542337.8	3753929.2	267.9	0.00	1.70	0.76	YES	
L0047588	0	0.48320E-07	542334.1	3753929.2	267.9	0.00	1.70	0.76	YES	
L0047589	0	0.48320E-07	542330.5	3753929.2	268.0	0.00	1.70	0.76	YES	
L0047590	0	0.48320E-07	542326.8	3753929.2	268.0	0.00	1.70	0.76	YES	
L0047591	0	0.48320E-07	542323.1	3753929.2	268.0	0.00	1.70	0.76	YES	
L0047592	0	0.48320E-07	542319.5	3753929.2	268.0	0.00	1.70	0.76	YES	
L0047593	0	0.48320E-07	542315.8	3753929.2	268.1	0.00	1.70	0.76	YES	
L0047594	0	0.48320E-07	542312.2	3753929.2	268.1	0.00	1.70	0.76	YES	
L0047595	0	0.48320E-07	542308.5	3753929.2	268.1	0.00	1.70	0.76	YES	
L0047596	0	0.48320E-07	542304.9	3753929.2	268.1	0.00	1.70	0.76	YES	
L0047597	0	0.48320E-07	542301.2	3753929.2	268.1	0.00	1.70	0.76	YES	
L0047598	0	0.48320E-07	542297.5	3753929.2	268.1	0.00	1.70	0.76	YES	
L0047599	0	0.48320E-07	542293.9	3753929.1	268.2	0.00	1.70	0.76	YES	
L0047600	0	0.48320E-07	542290.2	3753929.1	268.2	0.00	1.70	0.76	YES	
L0047601	0	0.48320E-07	542286.6	3753929.1	268.2	0.00	1.70	0.76	YES	
L0047602	0	0.48320E-07	542282.9	3753929.1	268.2	0.00	1.70	0.76	YES	
L0047603	0	0.48320E-07	542279.3	3753929.1	268.2	0.00	1.70	0.76	YES	
L0047604	0	0.48320E-07	542275.6	3753929.1	268.2	0.00	1.70	0.76	YES	
L0047605	0	0.48320E-07	542271.9	3753929.1	268.3	0.00	1.70	0.76	YES	
L0047606	0	0.48320E-07	542268.3	3753929.1	268.3	0.00	1.70	0.76	YES	
L0047607	0	0.48320E-07	542264.6	3753929.1	268.3	0.00	1.70	0.76	YES	
L0047608	0	0.48320E-07	542261.0	3753929.1	268.3	0.00	1.70	0.76	YES	
L0047609	0	0.48320E-07	542257.3	3753929.1	268.4	0.00	1.70	0.76	YES	
L0047610	0	0.48320E-07	542253.7	3753929.1	268.4	0.00	1.70	0.76	YES	
L0047611	0	0.48320E-07	542250.0	3753929.0	268.4	0.00	1.70	0.76	YES	
L0047612	0	0.48320E-07	542246.3	3753929.0	268.4	0.00	1.70	0.76	YES	
L0047613	0	0.48320E-07	542242.7	3753929.0	268.4	0.00	1.70	0.76	YES	
L0047614	0	0.48320E-07	542239.0	3753929.0	268.5	0.00	1.70	0.76	YES	
L0047615	0	0.48320E-07	542235.4	3753929.0	268.5	0.00	1.70	0.76	YES	
L0047616	0	0.48320E-07	542231.7	3753929.0	268.5	0.00	1.70	0.76	YES	
L0047617	0	0.48320E-07	542228.0	3753929.0	268.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047618	0	0.48320E-07	542224.4	3753929.0	268.6	0.00	1.70	0.76	YES	
L0047619	0	0.48320E-07	542220.7	3753929.0	268.6	0.00	1.70	0.76	YES	
L0047620	0	0.48320E-07	542217.1	3753929.0	268.6	0.00	1.70	0.76	YES	
L0047621	0	0.48320E-07	542213.4	3753929.0	268.6	0.00	1.70	0.76	YES	
L0047622	0	0.48320E-07	542209.8	3753928.9	268.6	0.00	1.70	0.76	YES	
L0047623	0	0.48320E-07	542206.1	3753928.9	268.6	0.00	1.70	0.76	YES	
L0047624	0	0.48320E-07	542202.4	3753928.9	268.6	0.00	1.70	0.76	YES	
L0047625	0	0.48320E-07	542198.8	3753928.9	268.6	0.00	1.70	0.76	YES	
L0047626	0	0.48320E-07	542195.1	3753928.9	268.7	0.00	1.70	0.76	YES	
L0047627	0	0.48320E-07	542191.5	3753928.9	268.7	0.00	1.70	0.76	YES	
L0047628	0	0.48320E-07	542187.8	3753928.9	268.7	0.00	1.70	0.76	YES	
L0047629	0	0.48320E-07	542184.2	3753928.9	268.7	0.00	1.70	0.76	YES	
L0047630	0	0.48320E-07	542180.5	3753928.9	268.7	0.00	1.70	0.76	YES	
L0047631	0	0.48320E-07	542176.8	3753928.9	268.7	0.00	1.70	0.76	YES	
L0047632	0	0.48320E-07	542173.2	3753928.9	268.7	0.00	1.70	0.76	YES	
L0047633	0	0.48320E-07	542169.5	3753928.9	268.7	0.00	1.70	0.76	YES	
L0047634	0	0.48320E-07	542165.9	3753928.8	268.7	0.00	1.70	0.76	YES	
L0047635	0	0.48320E-07	542162.2	3753928.8	268.7	0.00	1.70	0.76	YES	
L0047636	0	0.48320E-07	542158.6	3753928.8	268.7	0.00	1.70	0.76	YES	
L0047637	0	0.48320E-07	542154.9	3753928.8	268.8	0.00	1.70	0.76	YES	
L0047638	0	0.48320E-07	542151.2	3753928.8	268.8	0.00	1.70	0.76	YES	
L0047639	0	0.48320E-07	542147.6	3753928.8	268.8	0.00	1.70	0.76	YES	
L0047640	0	0.48320E-07	542143.9	3753928.8	268.8	0.00	1.70	0.76	YES	
L0047641	0	0.48320E-07	542140.3	3753928.8	268.8	0.00	1.70	0.76	YES	
L0047642	0	0.48320E-07	542136.6	3753928.8	268.8	0.00	1.70	0.76	YES	
L0047643	0	0.48320E-07	542133.0	3753928.8	268.8	0.00	1.70	0.76	YES	
L0047644	0	0.48320E-07	542129.3	3753928.8	268.8	0.00	1.70	0.76	YES	
L0047645	0	0.48320E-07	542125.6	3753928.8	268.8	0.00	1.70	0.76	YES	
L0047646	0	0.48320E-07	542122.0	3753928.7	268.8	0.00	1.70	0.76	YES	
L0047647	0	0.48320E-07	542118.3	3753928.7	268.9	0.00	1.70	0.76	YES	
L0047648	0	0.48320E-07	542114.7	3753928.7	268.9	0.00	1.70	0.76	YES	
L0047649	0	0.48320E-07	542111.0	3753928.7	268.9	0.00	1.70	0.76	YES	
L0047650	0	0.48320E-07	542107.3	3753928.7	268.9	0.00	1.70	0.76	YES	
L0047651	0	0.48320E-07	542103.7	3753928.7	268.9	0.00	1.70	0.76	YES	
L0047652	0	0.48320E-07	542100.0	3753928.7	268.9	0.00	1.70	0.76	YES	
L0047653	0	0.48320E-07	542096.4	3753928.7	268.9	0.00	1.70	0.76	YES	
L0047654	0	0.48320E-07	542092.7	3753928.7	269.0	0.00	1.70	0.76	YES	
L0047655	0	0.48320E-07	542089.1	3753928.7	269.0	0.00	1.70	0.76	YES	

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L0047656         0   0.48320E-07  542085.4 3753928.7   269.0     0.00     1.70     0.76     YES
L0047657         0   0.48320E-07  542081.7 3753928.7   269.0     0.00     1.70     0.76     YES

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 2nd 14 years                    ***        05/26/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 2nd 14 years                          ***        07:57:00
                                                                                                                   PAGE  42
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

             NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.   URBAN  EMISSION RATE
  SOURCE      PART.  (GRAMS/SEC)     X         Y      ELEV.   HEIGHT      SY       SZ     SOURCE  SCALAR VARY
    ID        CATS.                (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)             BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

L0047658         0   0.48320E-07  542078.1 3753928.6   269.1     0.00     1.70     0.76     YES
L0047659         0   0.48320E-07  542074.4 3753928.6   269.1     0.00     1.70     0.76     YES
L0047660         0   0.48320E-07  542070.8 3753928.6   269.1     0.00     1.70     0.76     YES
L0047661         0   0.48320E-07  542067.1 3753928.6   269.1     0.00     1.70     0.76     YES
L0047662         0   0.48320E-07  542063.5 3753928.6   269.2     0.00     1.70     0.76     YES
L0047663         0   0.48320E-07  542059.8 3753928.6   269.2     0.00     1.70     0.76     YES
L0047664         0   0.48320E-07  542056.1 3753928.6   269.2     0.00     1.70     0.76     YES
L0047665         0   0.48320E-07  542052.5 3753928.6   269.3     0.00     1.70     0.76     YES
L0047666         0   0.48320E-07  542048.8 3753928.6   269.3     0.00     1.70     0.76     YES
L0047667         0   0.48320E-07  542045.2 3753928.6   269.3     0.00     1.70     0.76     YES
L0047668         0   0.48320E-07  542041.5 3753928.6   269.4     0.00     1.70     0.76     YES
L0047669         0   0.48320E-07  542037.9 3753928.6   269.4     0.00     1.70     0.76     YES
L0047670         0   0.38360E-07  542037.5 3753923.3   269.3     0.00     1.70     0.76     YES
L0047671         0   0.38360E-07  542037.4 3753919.7   269.2     0.00     1.70     0.76     YES
L0047672         0   0.38360E-07  542037.4 3753916.0   269.1     0.00     1.70     0.76     YES
L0047673         0   0.38360E-07  542037.4 3753912.4   269.0     0.00     1.70     0.76     YES
L0047674         0   0.38360E-07  542037.3 3753908.7   268.9     0.00     1.70     0.76     YES
L0047675         0   0.38360E-07  542037.3 3753905.0   268.8     0.00     1.70     0.76     YES
L0047676         0   0.38360E-07  542037.3 3753901.4   268.7     0.00     1.70     0.76     YES
L0047677         0   0.38360E-07  542037.2 3753897.7   268.6     0.00     1.70     0.76     YES
L0047678         0   0.38360E-07  542037.2 3753894.1   268.6     0.00     1.70     0.76     YES
L0047679         0   0.38360E-07  542037.2 3753890.4   268.5     0.00     1.70     0.76     YES
L0047680         0   0.38360E-07  542037.1 3753886.8   268.4     0.00     1.70     0.76     YES
L0047681         0   0.38360E-07  542037.1 3753883.1   268.3     0.00     1.70     0.76     YES
L0047682         0   0.38360E-07  542037.1 3753879.4   268.2     0.00     1.70     0.76     YES
L0047683         0   0.38360E-07  542037.0 3753875.8   268.1     0.00     1.70     0.76     YES
L0047684         0   0.38360E-07  542037.0 3753872.1   268.0     0.00     1.70     0.76     YES
L0047685         0   0.38360E-07  542037.0 3753868.5   267.9     0.00     1.70     0.76     YES
L0047686         0   0.38360E-07  542036.9 3753864.8   267.8     0.00     1.70     0.76     YES
L0047687         0   0.38360E-07  542036.9 3753861.2   267.7     0.00     1.70     0.76     YES
L0047688         0   0.38360E-07  542036.9 3753857.5   267.6     0.00     1.70     0.76     YES
L0047689         0   0.38360E-07  542036.8 3753853.8   267.5     0.00     1.70     0.76     YES
L0047690         0   0.38360E-07  542036.8 3753850.2   267.4     0.00     1.70     0.76     YES
L0047691         0   0.38360E-07  542036.8 3753846.5   267.3     0.00     1.70     0.76     YES
L0047692         0   0.38360E-07  542036.7 3753842.9   267.2     0.00     1.70     0.76     YES
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L0047693	0	0.38360E-07	542036.7	3753839.2	267.1	0.00	1.70	0.76	YES	
L0047694	0	0.38360E-07	542036.7	3753835.6	267.0	0.00	1.70	0.76	YES	
L0047695	0	0.38360E-07	542036.6	3753831.9	266.9	0.00	1.70	0.76	YES	
L0047696	0	0.38360E-07	542036.6	3753828.2	266.8	0.00	1.70	0.76	YES	
L0047697	0	0.38360E-07	542036.6	3753824.6	266.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047698	0	0.38360E-07	542036.6	3753820.9	266.6	0.00	1.70	0.76	YES	
L0047699	0	0.38360E-07	542036.5	3753817.3	266.5	0.00	1.70	0.76	YES	
L0047700	0	0.38360E-07	542036.5	3753813.6	266.4	0.00	1.70	0.76	YES	
L0047701	0	0.38360E-07	542036.5	3753809.9	266.3	0.00	1.70	0.76	YES	
L0047702	0	0.38360E-07	542036.4	3753806.3	266.2	0.00	1.70	0.76	YES	
L0047703	0	0.38360E-07	542036.4	3753802.6	266.1	0.00	1.70	0.76	YES	
L0047704	0	0.38360E-07	542036.4	3753799.0	266.0	0.00	1.70	0.76	YES	
L0047705	0	0.38360E-07	542036.3	3753795.3	265.9	0.00	1.70	0.76	YES	
L0047706	0	0.38360E-07	542036.3	3753791.7	265.8	0.00	1.70	0.76	YES	
L0047707	0	0.38360E-07	542036.3	3753788.0	265.7	0.00	1.70	0.76	YES	
L0047708	0	0.38360E-07	542036.2	3753784.3	265.6	0.00	1.70	0.76	YES	
L0047709	0	0.38360E-07	542036.2	3753780.7	265.5	0.00	1.70	0.76	YES	
L0047710	0	0.38360E-07	542036.2	3753777.0	265.4	0.00	1.70	0.76	YES	
L0047711	0	0.38360E-07	542036.1	3753773.4	265.4	0.00	1.70	0.76	YES	
L0047712	0	0.38360E-07	542036.1	3753769.7	265.3	0.00	1.70	0.76	YES	
L0047713	0	0.38360E-07	542036.1	3753766.1	265.2	0.00	1.70	0.76	YES	
L0047714	0	0.38360E-07	542036.0	3753762.4	265.1	0.00	1.70	0.76	YES	
L0047715	0	0.38360E-07	542036.0	3753758.7	265.0	0.00	1.70	0.76	YES	
L0047716	0	0.38360E-07	542036.0	3753755.1	264.9	0.00	1.70	0.76	YES	
L0047717	0	0.38360E-07	542035.9	3753751.4	264.8	0.00	1.70	0.76	YES	
L0047718	0	0.38360E-07	542035.9	3753747.8	264.7	0.00	1.70	0.76	YES	
L0047719	0	0.38360E-07	542035.9	3753744.1	264.6	0.00	1.70	0.76	YES	
L0047720	0	0.38360E-07	542035.8	3753740.5	264.6	0.00	1.70	0.76	YES	
L0047721	0	0.38360E-07	542035.8	3753736.8	264.5	0.00	1.70	0.76	YES	
L0047722	0	0.38360E-07	542035.8	3753733.1	264.4	0.00	1.70	0.76	YES	
L0047723	0	0.38360E-07	542035.7	3753729.5	264.3	0.00	1.70	0.76	YES	
L0047724	0	0.38360E-07	542035.7	3753725.8	264.2	0.00	1.70	0.76	YES	
L0047725	0	0.38360E-07	542035.7	3753722.2	264.1	0.00	1.70	0.76	YES	
L0047726	0	0.38360E-07	542035.7	3753718.5	264.0	0.00	1.70	0.76	YES	
L0047727	0	0.38360E-07	542035.6	3753714.9	263.9	0.00	1.70	0.76	YES	
L0047728	0	0.38360E-07	542035.6	3753711.2	263.8	0.00	1.70	0.76	YES	
L0047729	0	0.38360E-07	542035.6	3753707.5	263.7	0.00	1.70	0.76	YES	

L0047730	0	0.38360E-07	542035.5	3753703.9	263.6	0.00	1.70	0.76	YES	
L0047731	0	0.38360E-07	542035.5	3753700.2	263.6	0.00	1.70	0.76	YES	
L0047732	0	0.38360E-07	542035.5	3753696.6	263.5	0.00	1.70	0.76	YES	
L0047733	0	0.38360E-07	542035.4	3753692.9	263.4	0.00	1.70	0.76	YES	
L0047734	0	0.38360E-07	542035.4	3753689.3	263.3	0.00	1.70	0.76	YES	
L0047735	0	0.38360E-07	542035.4	3753685.6	263.2	0.00	1.70	0.76	YES	
L0047736	0	0.38360E-07	542035.3	3753681.9	263.1	0.00	1.70	0.76	YES	
L0047737	0	0.38360E-07	542035.3	3753678.3	263.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047738	0	0.38360E-07	542035.3	3753674.6	262.9	0.00	1.70	0.76	YES	
L0047739	0	0.38360E-07	542035.2	3753671.0	262.9	0.00	1.70	0.76	YES	
L0047740	0	0.38360E-07	542035.2	3753667.3	262.8	0.00	1.70	0.76	YES	
L0047741	0	0.38360E-07	542035.2	3753663.7	262.7	0.00	1.70	0.76	YES	
L0047742	0	0.38360E-07	542035.1	3753660.0	262.6	0.00	1.70	0.76	YES	
L0047743	0	0.38360E-07	542035.1	3753656.3	262.5	0.00	1.70	0.76	YES	
L0047744	0	0.38360E-07	542035.1	3753652.7	262.5	0.00	1.70	0.76	YES	
L0047745	0	0.38360E-07	542035.0	3753649.0	262.4	0.00	1.70	0.76	YES	
L0047746	0	0.38360E-07	542035.0	3753645.4	262.3	0.00	1.70	0.76	YES	
L0047747	0	0.38360E-07	542035.0	3753641.7	262.2	0.00	1.70	0.76	YES	
L0047748	0	0.38360E-07	542034.9	3753638.0	262.2	0.00	1.70	0.76	YES	
L0047749	0	0.38360E-07	542034.9	3753634.4	262.1	0.00	1.70	0.76	YES	
L0047750	0	0.38360E-07	542034.9	3753630.7	262.0	0.00	1.70	0.76	YES	
L0047751	0	0.38360E-07	542034.9	3753627.1	261.9	0.00	1.70	0.76	YES	
L0047752	0	0.38360E-07	542034.8	3753623.4	261.9	0.00	1.70	0.76	YES	
L0047753	0	0.38360E-07	542034.8	3753619.8	261.8	0.00	1.70	0.76	YES	
L0047754	0	0.38360E-07	542034.8	3753616.1	261.7	0.00	1.70	0.76	YES	
L0047755	0	0.38360E-07	542034.7	3753612.4	261.6	0.00	1.70	0.76	YES	
L0047756	0	0.38360E-07	542034.7	3753608.8	261.6	0.00	1.70	0.76	YES	
L0047757	0	0.38360E-07	542034.7	3753605.1	261.5	0.00	1.70	0.76	YES	
L0047758	0	0.38360E-07	542034.6	3753601.5	261.4	0.00	1.70	0.76	YES	
L0047759	0	0.38360E-07	542034.6	3753597.8	261.3	0.00	1.70	0.76	YES	
L0047760	0	0.38360E-07	542034.6	3753594.2	261.2	0.00	1.70	0.76	YES	
L0047761	0	0.38360E-07	542034.5	3753590.5	261.2	0.00	1.70	0.76	YES	
L0047762	0	0.38360E-07	542034.5	3753586.8	261.1	0.00	1.70	0.76	YES	
L0047763	0	0.38360E-07	542034.5	3753583.2	261.0	0.00	1.70	0.76	YES	
L0047764	0	0.38360E-07	542034.4	3753579.5	260.9	0.00	1.70	0.76	YES	
L0047765	0	0.38360E-07	542034.4	3753575.9	260.8	0.00	1.70	0.76	YES	
L0047766	0	0.38360E-07	542034.4	3753572.2	260.8	0.00	1.70	0.76	YES	

L0047767	0	0.38360E-07	542034.3	3753568.6	260.7	0.00	1.70	0.76	YES
L0047768	0	0.38360E-07	542034.3	3753564.9	260.6	0.00	1.70	0.76	YES
L0047769	0	0.38360E-07	542034.3	3753561.2	260.5	0.00	1.70	0.76	YES
L0047770	0	0.38360E-07	542034.2	3753557.6	260.4	0.00	1.70	0.76	YES
L0047771	0	0.38360E-07	542034.2	3753553.9	260.4	0.00	1.70	0.76	YES
L0047772	0	0.38360E-07	542034.2	3753550.3	260.3	0.00	1.70	0.76	YES
L0047773	0	0.38360E-07	542034.1	3753546.6	260.2	0.00	1.70	0.76	YES
L0047774	0	0.38360E-07	542034.1	3753543.0	260.1	0.00	1.70	0.76	YES
L0047775	0	0.38360E-07	542034.1	3753539.3	260.1	0.00	1.70	0.76	YES
L0047776	0	0.38360E-07	542034.0	3753535.6	260.0	0.00	1.70	0.76	YES
L0047777	0	0.38360E-07	542034.0	3753532.0	259.9	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047778	0	0.38360E-07	542034.0	3753528.3	259.8	0.00	1.70	0.76	YES	
L0047779	0	0.38360E-07	542034.0	3753524.7	259.7	0.00	1.70	0.76	YES	
L0047780	0	0.38360E-07	542033.9	3753521.0	259.6	0.00	1.70	0.76	YES	
L0047781	0	0.38360E-07	542033.9	3753517.4	259.6	0.00	1.70	0.76	YES	
L0047782	0	0.38360E-07	542033.9	3753513.7	259.5	0.00	1.70	0.76	YES	
L0047783	0	0.38360E-07	542033.8	3753510.0	259.4	0.00	1.70	0.76	YES	
L0047784	0	0.38360E-07	542033.8	3753506.4	259.3	0.00	1.70	0.76	YES	
L0047785	0	0.38360E-07	542033.8	3753502.7	259.2	0.00	1.70	0.76	YES	
L0047786	0	0.38360E-07	542033.7	3753499.1	259.2	0.00	1.70	0.76	YES	
L0047787	0	0.38360E-07	542033.7	3753495.4	259.1	0.00	1.70	0.76	YES	
L0047788	0	0.38360E-07	542033.7	3753491.8	259.0	0.00	1.70	0.76	YES	
L0047789	0	0.38360E-07	542033.6	3753488.1	258.9	0.00	1.70	0.76	YES	
L0047790	0	0.38360E-07	542033.6	3753484.4	258.8	0.00	1.70	0.76	YES	
L0047791	0	0.38360E-07	542033.6	3753480.8	258.8	0.00	1.70	0.76	YES	
L0047792	0	0.38360E-07	542033.5	3753477.1	258.7	0.00	1.70	0.76	YES	
L0047793	0	0.38360E-07	542033.5	3753473.5	258.6	0.00	1.70	0.76	YES	
L0047794	0	0.38360E-07	542033.5	3753469.8	258.5	0.00	1.70	0.76	YES	
L0047795	0	0.38360E-07	542033.4	3753466.1	258.4	0.00	1.70	0.76	YES	
L0047796	0	0.38360E-07	542033.4	3753462.5	258.3	0.00	1.70	0.76	YES	
L0047797	0	0.38360E-07	542033.4	3753458.8	258.2	0.00	1.70	0.76	YES	
L0047798	0	0.38360E-07	542033.3	3753455.2	258.2	0.00	1.70	0.76	YES	
L0047799	0	0.38360E-07	542033.3	3753451.5	258.1	0.00	1.70	0.76	YES	
L0047800	0	0.38360E-07	542033.3	3753447.9	258.0	0.00	1.70	0.76	YES	
L0047801	0	0.38360E-07	542033.2	3753444.2	257.9	0.00	1.70	0.76	YES	
L0047802	0	0.38360E-07	542033.2	3753440.5	257.8	0.00	1.70	0.76	YES	
L0047803	0	0.38360E-07	542033.2	3753436.9	257.7	0.00	1.70	0.76	YES	

L0047804	0	0.38360E-07	542033.1	3753433.2	257.6	0.00	1.70	0.76	YES	
L0047805	0	0.38360E-07	542033.1	3753429.6	257.5	0.00	1.70	0.76	YES	
L0047806	0	0.38360E-07	542033.1	3753425.9	257.4	0.00	1.70	0.76	YES	
L0047807	0	0.38360E-07	542033.1	3753422.3	257.4	0.00	1.70	0.76	YES	
L0047808	0	0.38360E-07	542033.0	3753418.6	257.3	0.00	1.70	0.76	YES	
L0047809	0	0.38360E-07	542033.0	3753414.9	257.2	0.00	1.70	0.76	YES	
L0047810	0	0.38360E-07	542033.0	3753411.3	257.1	0.00	1.70	0.76	YES	
L0047811	0	0.38360E-07	542032.9	3753407.6	257.0	0.00	1.70	0.76	YES	
L0047812	0	0.38360E-07	542032.9	3753404.0	256.9	0.00	1.70	0.76	YES	
L0047813	0	0.38360E-07	542032.9	3753400.3	256.8	0.00	1.70	0.76	YES	
L0047814	0	0.38360E-07	542032.8	3753396.7	256.7	0.00	1.70	0.76	YES	
L0047815	0	0.38360E-07	542032.8	3753393.0	256.6	0.00	1.70	0.76	YES	
L0047816	0	0.38360E-07	542032.8	3753389.3	256.5	0.00	1.70	0.76	YES	
L0047817	0	0.38360E-07	542032.7	3753385.7	256.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047818	0	0.38360E-07	542032.7	3753382.0	256.4	0.00	1.70	0.76	YES	
L0047819	0	0.38360E-07	542032.7	3753378.4	256.3	0.00	1.70	0.76	YES	
L0047820	0	0.38360E-07	542032.6	3753374.7	256.2	0.00	1.70	0.76	YES	
L0047821	0	0.38360E-07	542032.6	3753371.1	256.1	0.00	1.70	0.76	YES	
L0047822	0	0.38360E-07	542032.6	3753367.4	256.1	0.00	1.70	0.76	YES	
L0047823	0	0.38360E-07	542032.5	3753363.7	256.0	0.00	1.70	0.76	YES	
L0047824	0	0.38360E-07	542032.5	3753360.1	255.9	0.00	1.70	0.76	YES	
L0047825	0	0.38360E-07	542032.5	3753356.4	255.8	0.00	1.70	0.76	YES	
L0047826	0	0.38360E-07	542032.4	3753352.8	255.7	0.00	1.70	0.76	YES	
L0047827	0	0.38360E-07	542032.4	3753349.1	255.6	0.00	1.70	0.76	YES	
L0047828	0	0.38360E-07	542032.4	3753345.5	255.5	0.00	1.70	0.76	YES	
L0047829	0	0.38360E-07	542032.3	3753341.8	255.4	0.00	1.70	0.76	YES	
L0047830	0	0.38360E-07	542032.3	3753338.1	255.3	0.00	1.70	0.76	YES	
L0047831	0	0.38360E-07	542032.3	3753334.5	255.2	0.00	1.70	0.76	YES	
L0047832	0	0.38360E-07	542032.2	3753330.8	255.1	0.00	1.70	0.76	YES	
L0047833	0	0.38360E-07	542032.2	3753327.2	255.0	0.00	1.70	0.76	YES	
L0047834	0	0.38360E-07	542032.2	3753323.5	254.9	0.00	1.70	0.76	YES	
L0047835	0	0.38360E-07	542032.2	3753319.8	254.8	0.00	1.70	0.76	YES	
L0047836	0	0.38360E-07	542032.1	3753316.2	254.7	0.00	1.70	0.76	YES	
L0047837	0	0.38360E-07	542032.1	3753312.5	254.6	0.00	1.70	0.76	YES	
L0047838	0	0.38360E-07	542032.1	3753308.9	254.5	0.00	1.70	0.76	YES	
L0047839	0	0.38360E-07	542032.0	3753305.2	254.4	0.00	1.70	0.76	YES	
L0047840	0	0.38360E-07	542032.0	3753301.6	254.2	0.00	1.70	0.76	YES	

L0047841	0	0.38360E-07	542032.0	3753297.9	254.2	0.00	1.70	0.76	YES	
L0047842	0	0.38360E-07	542031.9	3753294.2	254.1	0.00	1.70	0.76	YES	
L0047843	0	0.38360E-07	542031.9	3753290.6	254.0	0.00	1.70	0.76	YES	
L0047844	0	0.38360E-07	542031.9	3753286.9	253.9	0.00	1.70	0.76	YES	
L0047845	0	0.38360E-07	542031.8	3753283.3	253.8	0.00	1.70	0.76	YES	
L0047846	0	0.38360E-07	542031.8	3753279.6	253.7	0.00	1.70	0.76	YES	
L0047847	0	0.38360E-07	542031.8	3753276.0	253.6	0.00	1.70	0.76	YES	
L0047848	0	0.38360E-07	542031.7	3753272.3	253.5	0.00	1.70	0.76	YES	
L0047849	0	0.38360E-07	542031.7	3753268.6	253.5	0.00	1.70	0.76	YES	
L0047850	0	0.38360E-07	542031.7	3753265.0	253.4	0.00	1.70	0.76	YES	
L0047851	0	0.38360E-07	542031.6	3753261.3	253.3	0.00	1.70	0.76	YES	
L0047852	0	0.38360E-07	542031.6	3753257.7	253.2	0.00	1.70	0.76	YES	
L0047853	0	0.38360E-07	542031.6	3753254.0	253.1	0.00	1.70	0.76	YES	
L0047854	0	0.38360E-07	542031.5	3753250.4	253.1	0.00	1.70	0.76	YES	
L0047855	0	0.38360E-07	542031.5	3753246.7	253.0	0.00	1.70	0.76	YES	
L0047856	0	0.38360E-07	542031.5	3753243.0	252.9	0.00	1.70	0.76	YES	
L0047857	0	0.38360E-07	542031.4	3753239.4	252.8	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047858	0	0.38360E-07	542031.4	3753235.7	252.7	0.00	1.70	0.76	YES	
L0047859	0	0.38360E-07	542031.4	3753232.1	252.7	0.00	1.70	0.76	YES	
L0047860	0	0.38360E-07	542031.4	3753228.4	252.6	0.00	1.70	0.76	YES	
L0047861	0	0.38360E-07	542031.3	3753224.8	252.5	0.00	1.70	0.76	YES	
L0047862	0	0.38360E-07	542031.3	3753221.1	252.4	0.00	1.70	0.76	YES	
L0047863	0	0.38360E-07	542031.3	3753217.4	252.4	0.00	1.70	0.76	YES	
L0047864	0	0.38360E-07	542031.2	3753213.8	252.3	0.00	1.70	0.76	YES	
L0047865	0	0.38360E-07	542031.2	3753210.1	252.2	0.00	1.70	0.76	YES	
L0047866	0	0.38360E-07	542031.2	3753206.5	252.1	0.00	1.70	0.76	YES	
L0047867	0	0.38360E-07	542031.1	3753202.8	252.1	0.00	1.70	0.76	YES	
L0047868	0	0.38360E-07	542031.1	3753199.2	252.0	0.00	1.70	0.76	YES	
L0047869	0	0.38360E-07	542031.1	3753195.5	251.9	0.00	1.70	0.76	YES	
L0047870	0	0.38360E-07	542031.0	3753191.8	251.8	0.00	1.70	0.76	YES	
L0047871	0	0.38360E-07	542031.0	3753188.2	251.8	0.00	1.70	0.76	YES	
L0047872	0	0.38360E-07	542031.0	3753184.5	251.7	0.00	1.70	0.76	YES	
L0047873	0	0.38360E-07	542030.9	3753180.9	251.6	0.00	1.70	0.76	YES	
L0047874	0	0.38360E-07	542030.9	3753177.2	251.5	0.00	1.70	0.76	YES	
L0047875	0	0.38360E-07	542030.9	3753173.6	251.4	0.00	1.70	0.76	YES	
L0047876	0	0.38360E-07	542030.8	3753169.9	251.4	0.00	1.70	0.76	YES	
L0047877	0	0.38360E-07	542030.8	3753166.2	251.3	0.00	1.70	0.76	YES	

L0047878	0	0.38360E-07	542030.8	3753162.6	251.2	0.00	1.70	0.76	YES
L0047879	0	0.38360E-07	542030.7	3753158.9	251.1	0.00	1.70	0.76	YES
L0047880	0	0.38360E-07	542030.7	3753155.3	251.0	0.00	1.70	0.76	YES
L0047881	0	0.38360E-07	542030.7	3753151.6	250.9	0.00	1.70	0.76	YES
L0047882	0	0.38360E-07	542030.6	3753147.9	250.9	0.00	1.70	0.76	YES
L0047883	0	0.38360E-07	542030.6	3753144.3	250.8	0.00	1.70	0.76	YES
L0047884	0	0.38360E-07	542030.6	3753140.6	250.6	0.00	1.70	0.76	YES
L0047885	0	0.38360E-07	542030.5	3753137.0	250.5	0.00	1.70	0.76	YES
L0047886	0	0.38360E-07	542030.5	3753133.3	250.4	0.00	1.70	0.76	YES
L0047887	0	0.38360E-07	542030.5	3753129.7	250.3	0.00	1.70	0.76	YES
L0047888	0	0.38360E-07	542030.5	3753126.0	250.2	0.00	1.70	0.76	YES
L0047889	0	0.38360E-07	542030.4	3753122.3	250.1	0.00	1.70	0.76	YES
L0047890	0	0.70960E-07	543901.7	3755432.3	288.3	0.00	1.70	0.76	YES
L0047891	0	0.70960E-07	543905.4	3755432.3	288.3	0.00	1.70	0.76	YES
L0047892	0	0.70960E-07	543909.0	3755432.3	288.2	0.00	1.70	0.76	YES
L0047893	0	0.70960E-07	543912.7	3755432.3	288.2	0.00	1.70	0.76	YES
L0047894	0	0.70960E-07	543916.3	3755432.3	288.2	0.00	1.70	0.76	YES
L0047895	0	0.70960E-07	543920.0	3755432.3	288.1	0.00	1.70	0.76	YES
L0047896	0	0.70960E-07	543923.7	3755432.3	288.1	0.00	1.70	0.76	YES
L0047897	0	0.70960E-07	543927.3	3755432.3	288.1	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047898	0	0.70960E-07	543931.0	3755432.3	288.0	0.00	1.70	0.76	YES	
L0047899	0	0.70960E-07	543934.6	3755432.3	288.0	0.00	1.70	0.76	YES	
L0047900	0	0.70960E-07	543938.3	3755432.3	287.9	0.00	1.70	0.76	YES	
L0047901	0	0.70960E-07	543941.9	3755432.3	287.9	0.00	1.70	0.76	YES	
L0047902	0	0.70960E-07	543945.6	3755432.3	287.9	0.00	1.70	0.76	YES	
L0047903	0	0.70960E-07	543949.3	3755432.3	287.8	0.00	1.70	0.76	YES	
L0047904	0	0.70960E-07	543952.9	3755432.3	287.8	0.00	1.70	0.76	YES	
L0047905	0	0.70960E-07	543956.6	3755432.3	287.8	0.00	1.70	0.76	YES	
L0047906	0	0.70960E-07	543960.2	3755432.3	287.7	0.00	1.70	0.76	YES	
L0047907	0	0.70960E-07	543963.9	3755432.3	287.7	0.00	1.70	0.76	YES	
L0047908	0	0.70960E-07	543967.5	3755432.3	287.7	0.00	1.70	0.76	YES	
L0047909	0	0.70960E-07	543971.2	3755432.3	287.7	0.00	1.70	0.76	YES	
L0047910	0	0.70960E-07	543974.9	3755432.3	287.7	0.00	1.70	0.76	YES	
L0047911	0	0.70960E-07	543978.5	3755432.3	287.7	0.00	1.70	0.76	YES	
L0047912	0	0.70960E-07	543982.2	3755432.3	287.7	0.00	1.70	0.76	YES	
L0047913	0	0.70960E-07	543985.8	3755432.3	287.7	0.00	1.70	0.76	YES	
L0047914	0	0.70960E-07	543989.5	3755432.3	287.7	0.00	1.70	0.76	YES	

L0047915	0	0.70960E-07	543993.2	3755432.3	287.7	0.00	1.70	0.76	YES	
L0047916	0	0.70960E-07	543996.8	3755432.3	287.7	0.00	1.70	0.76	YES	
L0047917	0	0.70960E-07	544000.5	3755432.3	287.7	0.00	1.70	0.76	YES	
L0047918	0	0.70960E-07	544004.1	3755432.3	287.7	0.00	1.70	0.76	YES	
L0047919	0	0.70960E-07	544007.8	3755432.3	287.7	0.00	1.70	0.76	YES	
L0047920	0	0.70960E-07	544011.4	3755432.3	287.6	0.00	1.70	0.76	YES	
L0047921	0	0.70960E-07	544015.1	3755432.3	287.6	0.00	1.70	0.76	YES	
L0047922	0	0.70960E-07	544018.8	3755432.3	287.6	0.00	1.70	0.76	YES	
L0047923	0	0.70960E-07	544022.4	3755432.3	287.6	0.00	1.70	0.76	YES	
L0047924	0	0.70960E-07	544026.1	3755432.3	287.6	0.00	1.70	0.76	YES	
L0047925	0	0.70960E-07	544029.7	3755432.3	287.6	0.00	1.70	0.76	YES	
L0047926	0	0.70960E-07	544033.4	3755432.3	287.6	0.00	1.70	0.76	YES	
L0047927	0	0.70960E-07	544037.0	3755432.3	287.6	0.00	1.70	0.76	YES	
L0047928	0	0.70960E-07	544040.7	3755432.3	287.6	0.00	1.70	0.76	YES	
L0047929	0	0.70960E-07	544044.4	3755432.3	287.6	0.00	1.70	0.76	YES	
L0047930	0	0.70960E-07	544048.0	3755432.3	287.6	0.00	1.70	0.76	YES	
L0047931	0	0.70960E-07	544051.7	3755432.3	287.6	0.00	1.70	0.76	YES	
L0047932	0	0.70960E-07	544055.3	3755432.3	287.6	0.00	1.70	0.76	YES	
L0047933	0	0.70960E-07	544059.0	3755432.3	287.6	0.00	1.70	0.76	YES	
L0047934	0	0.70960E-07	544062.6	3755432.3	287.6	0.00	1.70	0.76	YES	
L0047935	0	0.70960E-07	544066.3	3755432.3	287.6	0.00	1.70	0.76	YES	
L0047936	0	0.70960E-07	544070.0	3755432.3	287.6	0.00	1.70	0.76	YES	
L0047937	0	0.70960E-07	544073.6	3755432.3	287.6	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047938	0	0.70960E-07	544077.3	3755432.3	287.6	0.00	1.70	0.76	YES	
L0047939	0	0.70960E-07	544080.9	3755432.3	287.6	0.00	1.70	0.76	YES	
L0047940	0	0.70960E-07	544084.6	3755432.3	287.5	0.00	1.70	0.76	YES	
L0047941	0	0.70960E-07	544088.2	3755432.3	287.5	0.00	1.70	0.76	YES	
L0047942	0	0.70960E-07	544091.9	3755432.3	287.5	0.00	1.70	0.76	YES	
L0047943	0	0.70960E-07	544095.6	3755432.3	287.5	0.00	1.70	0.76	YES	
L0047944	0	0.70960E-07	544099.2	3755432.2	287.5	0.00	1.70	0.76	YES	
L0047945	0	0.70960E-07	544102.9	3755432.2	287.5	0.00	1.70	0.76	YES	
L0047946	0	0.70960E-07	544106.5	3755432.2	287.5	0.00	1.70	0.76	YES	
L0047947	0	0.70960E-07	544110.2	3755432.2	287.4	0.00	1.70	0.76	YES	
L0047948	0	0.70960E-07	544113.9	3755432.2	287.4	0.00	1.70	0.76	YES	
L0047949	0	0.70960E-07	544117.5	3755432.2	287.4	0.00	1.70	0.76	YES	
L0047950	0	0.70960E-07	544121.2	3755432.2	287.4	0.00	1.70	0.76	YES	
L0047951	0	0.70960E-07	544124.8	3755432.2	287.4	0.00	1.70	0.76	YES	

L0047952	0	0.70960E-07	544128.5	3755432.2	287.4	0.00	1.70	0.76	YES	
L0047953	0	0.70960E-07	544132.1	3755432.2	287.4	0.00	1.70	0.76	YES	
L0047954	0	0.70960E-07	544135.8	3755432.2	287.3	0.00	1.70	0.76	YES	
L0047955	0	0.70960E-07	544139.5	3755432.2	287.3	0.00	1.70	0.76	YES	
L0047956	0	0.70960E-07	544143.1	3755432.2	287.3	0.00	1.70	0.76	YES	
L0047957	0	0.70960E-07	544146.8	3755432.2	287.3	0.00	1.70	0.76	YES	
L0047958	0	0.70960E-07	544150.4	3755432.2	287.3	0.00	1.70	0.76	YES	
L0047959	0	0.70960E-07	544154.1	3755432.2	287.3	0.00	1.70	0.76	YES	
L0047960	0	0.70960E-07	544157.7	3755432.2	287.3	0.00	1.70	0.76	YES	
L0047961	0	0.70960E-07	544161.4	3755432.2	287.2	0.00	1.70	0.76	YES	
L0047962	0	0.70960E-07	544165.1	3755432.2	287.2	0.00	1.70	0.76	YES	
L0047963	0	0.70960E-07	544168.7	3755432.2	287.2	0.00	1.70	0.76	YES	
L0047964	0	0.70960E-07	544172.4	3755432.2	287.2	0.00	1.70	0.76	YES	
L0047965	0	0.70960E-07	544176.0	3755432.2	287.2	0.00	1.70	0.76	YES	
L0047966	0	0.70960E-07	544179.7	3755432.2	287.2	0.00	1.70	0.76	YES	
L0047967	0	0.70960E-07	544183.3	3755432.2	287.1	0.00	1.70	0.76	YES	
L0047968	0	0.70960E-07	544187.0	3755432.2	287.1	0.00	1.70	0.76	YES	
L0047969	0	0.70960E-07	544190.7	3755432.2	287.1	0.00	1.70	0.76	YES	
L0047970	0	0.70960E-07	544194.3	3755432.2	287.1	0.00	1.70	0.76	YES	
L0047971	0	0.70960E-07	544198.0	3755432.2	287.1	0.00	1.70	0.76	YES	
L0047972	0	0.70960E-07	544201.6	3755432.2	287.1	0.00	1.70	0.76	YES	
L0047973	0	0.70960E-07	544205.3	3755432.2	287.1	0.00	1.70	0.76	YES	
L0047974	0	0.70960E-07	544208.9	3755432.2	287.1	0.00	1.70	0.76	YES	
L0047975	0	0.70960E-07	544212.6	3755432.2	287.0	0.00	1.70	0.76	YES	
L0047976	0	0.70960E-07	544216.3	3755432.2	287.0	0.00	1.70	0.76	YES	
L0047977	0	0.70960E-07	544219.9	3755432.2	287.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0047978	0	0.70960E-07	544223.6	3755432.2	287.0	0.00	1.70	0.76	YES	
L0047979	0	0.70960E-07	544227.2	3755432.2	287.0	0.00	1.70	0.76	YES	
L0047980	0	0.70960E-07	544230.9	3755432.2	286.9	0.00	1.70	0.76	YES	
L0047981	0	0.70960E-07	544234.6	3755432.2	286.9	0.00	1.70	0.76	YES	
L0047982	0	0.70960E-07	544238.2	3755432.2	286.9	0.00	1.70	0.76	YES	
L0047983	0	0.70960E-07	544241.9	3755432.2	286.9	0.00	1.70	0.76	YES	
L0047984	0	0.70960E-07	544245.5	3755432.2	286.9	0.00	1.70	0.76	YES	
L0047985	0	0.70960E-07	544249.2	3755432.2	286.9	0.00	1.70	0.76	YES	
L0047986	0	0.70960E-07	544252.8	3755432.2	286.8	0.00	1.70	0.76	YES	
L0047987	0	0.70960E-07	544256.5	3755432.2	286.8	0.00	1.70	0.76	YES	
L0047988	0	0.70960E-07	544260.2	3755432.2	286.8	0.00	1.70	0.76	YES	

L0047989	0	0.70960E-07	544263.8	3755432.2	286.8	0.00	1.70	0.76	YES	
L0047990	0	0.70960E-07	544267.5	3755432.2	286.8	0.00	1.70	0.76	YES	
L0047991	0	0.70960E-07	544271.1	3755432.2	286.7	0.00	1.70	0.76	YES	
L0047992	0	0.70960E-07	544274.8	3755432.2	286.7	0.00	1.70	0.76	YES	
L0047993	0	0.70960E-07	544278.4	3755432.2	286.7	0.00	1.70	0.76	YES	
L0047994	0	0.70960E-07	544282.1	3755432.2	286.7	0.00	1.70	0.76	YES	
L0047995	0	0.70960E-07	544285.8	3755432.2	286.6	0.00	1.70	0.76	YES	
L0047996	0	0.70960E-07	544289.4	3755432.2	286.6	0.00	1.70	0.76	YES	
L0047997	0	0.70960E-07	544293.1	3755432.2	286.6	0.00	1.70	0.76	YES	
L0047998	0	0.70960E-07	544296.7	3755432.2	286.6	0.00	1.70	0.76	YES	
L0047999	0	0.70960E-07	544300.4	3755432.2	286.6	0.00	1.70	0.76	YES	
L0048000	0	0.70960E-07	544304.0	3755432.2	286.5	0.00	1.70	0.76	YES	
L0048001	0	0.70960E-07	544307.7	3755432.2	286.5	0.00	1.70	0.76	YES	
L0048002	0	0.70960E-07	544311.4	3755432.2	286.5	0.00	1.70	0.76	YES	
L0048003	0	0.70960E-07	544315.0	3755432.2	286.5	0.00	1.70	0.76	YES	
L0048004	0	0.70960E-07	544318.7	3755432.2	286.4	0.00	1.70	0.76	YES	
L0048005	0	0.70960E-07	544322.3	3755432.2	286.4	0.00	1.70	0.76	YES	
L0048006	0	0.70960E-07	544326.0	3755432.2	286.4	0.00	1.70	0.76	YES	
L0048007	0	0.70960E-07	544329.7	3755432.2	286.4	0.00	1.70	0.76	YES	
L0048008	0	0.70960E-07	544333.3	3755432.2	286.4	0.00	1.70	0.76	YES	
L0048009	0	0.70960E-07	544337.0	3755432.2	286.3	0.00	1.70	0.76	YES	
L0048010	0	0.70960E-07	544340.6	3755432.2	286.3	0.00	1.70	0.76	YES	
L0048011	0	0.70960E-07	544344.3	3755432.2	286.3	0.00	1.70	0.76	YES	
L0048012	0	0.70960E-07	544347.9	3755432.2	286.3	0.00	1.70	0.76	YES	
L0048013	0	0.70960E-07	544351.6	3755432.1	286.2	0.00	1.70	0.76	YES	
L0048014	0	0.70960E-07	544355.3	3755432.1	286.2	0.00	1.70	0.76	YES	
L0048140	0	0.70820E-07	543961.9	3755201.2	284.0	0.00	1.70	0.76	YES	
L0048141	0	0.70820E-07	543965.3	3755202.6	284.0	0.00	1.70	0.76	YES	
L0048142	0	0.70820E-07	543968.6	3755204.1	284.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048143	0	0.70820E-07	543972.0	3755205.5	284.0	0.00	1.70	0.76	YES	
L0048144	0	0.70820E-07	543975.4	3755206.9	284.0	0.00	1.70	0.76	YES	
L0048145	0	0.70820E-07	543978.7	3755208.3	284.0	0.00	1.70	0.76	YES	
L0048146	0	0.70820E-07	543982.1	3755209.8	283.9	0.00	1.70	0.76	YES	
L0048147	0	0.70820E-07	543985.5	3755211.2	283.9	0.00	1.70	0.76	YES	
L0048148	0	0.70820E-07	543988.8	3755212.6	283.9	0.00	1.70	0.76	YES	
L0048149	0	0.70820E-07	543992.2	3755214.0	283.9	0.00	1.70	0.76	YES	
L0048150	0	0.70820E-07	543995.6	3755215.5	283.8	0.00	1.70	0.76	YES	

L0048151	0	0.70820E-07	543999.0	3755216.8	283.8	0.00	1.70	0.76	YES
L0048152	0	0.70820E-07	544002.6	3755217.5	283.7	0.00	1.70	0.76	YES
L0048153	0	0.70820E-07	544006.2	3755218.2	283.6	0.00	1.70	0.76	YES
L0048154	0	0.70820E-07	544009.7	3755218.9	283.5	0.00	1.70	0.76	YES
L0048155	0	0.70820E-07	544013.4	3755219.4	283.4	0.00	1.70	0.76	YES
L0048156	0	0.70820E-07	544017.0	3755219.4	283.4	0.00	1.70	0.76	YES
L0048157	0	0.70820E-07	544020.7	3755219.4	283.4	0.00	1.70	0.76	YES
L0048158	0	0.70820E-07	544024.3	3755219.4	283.3	0.00	1.70	0.76	YES
L0048159	0	0.70820E-07	544028.0	3755219.3	283.3	0.00	1.70	0.76	YES
L0048160	0	0.70820E-07	544031.6	3755219.3	283.2	0.00	1.70	0.76	YES
L0048161	0	0.70820E-07	544035.3	3755219.3	283.2	0.00	1.70	0.76	YES
L0048162	0	0.70820E-07	544039.0	3755219.3	283.2	0.00	1.70	0.76	YES
L0048163	0	0.70820E-07	544042.6	3755219.3	283.2	0.00	1.70	0.76	YES
L0048164	0	0.70820E-07	544046.3	3755219.3	283.2	0.00	1.70	0.76	YES
L0048165	0	0.70820E-07	544049.9	3755219.2	283.2	0.00	1.70	0.76	YES
L0048166	0	0.70820E-07	544053.6	3755219.2	283.2	0.00	1.70	0.76	YES
L0048167	0	0.70820E-07	544057.2	3755219.2	283.2	0.00	1.70	0.76	YES
L0048168	0	0.70820E-07	544060.9	3755219.2	283.2	0.00	1.70	0.76	YES
L0048169	0	0.70820E-07	544064.6	3755219.2	283.2	0.00	1.70	0.76	YES
L0048170	0	0.70820E-07	544068.2	3755219.1	283.2	0.00	1.70	0.76	YES
L0048171	0	0.70820E-07	544071.9	3755219.1	283.2	0.00	1.70	0.76	YES
L0048172	0	0.70820E-07	544075.5	3755219.1	283.2	0.00	1.70	0.76	YES
L0048173	0	0.70820E-07	544079.2	3755219.1	283.2	0.00	1.70	0.76	YES
L0048174	0	0.70820E-07	544082.8	3755219.1	283.2	0.00	1.70	0.76	YES
L0048175	0	0.70820E-07	544086.5	3755219.0	283.2	0.00	1.70	0.76	YES
L0048176	0	0.70820E-07	544090.2	3755219.0	283.2	0.00	1.70	0.76	YES
L0048177	0	0.70820E-07	544093.8	3755219.0	283.2	0.00	1.70	0.76	YES
L0048178	0	0.70820E-07	544097.5	3755219.0	283.2	0.00	1.70	0.76	YES
L0048179	0	0.70820E-07	544101.1	3755219.0	283.2	0.00	1.70	0.76	YES
L0048180	0	0.70820E-07	544104.8	3755219.0	283.2	0.00	1.70	0.76	YES
L0048181	0	0.70820E-07	544108.4	3755218.9	283.2	0.00	1.70	0.76	YES
L0048182	0	0.70820E-07	544112.1	3755218.9	283.2	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048183	0	0.70820E-07	544115.8	3755218.9	283.2	0.00	1.70	0.76	YES	
L0048184	0	0.70820E-07	544119.4	3755218.9	283.2	0.00	1.70	0.76	YES	
L0048185	0	0.70820E-07	544123.1	3755218.9	283.2	0.00	1.70	0.76	YES	
L0048186	0	0.70820E-07	544126.7	3755218.8	283.2	0.00	1.70	0.76	YES	
L0048187	0	0.70820E-07	544130.4	3755218.8	283.2	0.00	1.70	0.76	YES	

L0048188	0	0.70820E-07	544134.1	3755218.8	283.2	0.00	1.70	0.76	YES	
L0048189	0	0.70820E-07	544137.7	3755218.8	283.2	0.00	1.70	0.76	YES	
L0048190	0	0.70820E-07	544141.4	3755218.8	283.2	0.00	1.70	0.76	YES	
L0048191	0	0.70820E-07	544145.0	3755218.8	283.2	0.00	1.70	0.76	YES	
L0048192	0	0.70820E-07	544148.7	3755218.7	283.2	0.00	1.70	0.76	YES	
L0048193	0	0.70820E-07	544152.3	3755218.7	283.2	0.00	1.70	0.76	YES	
L0048194	0	0.70820E-07	544156.0	3755218.7	283.2	0.00	1.70	0.76	YES	
L0048195	0	0.70820E-07	544159.7	3755218.7	283.2	0.00	1.70	0.76	YES	
L0048196	0	0.70820E-07	544163.3	3755218.7	283.2	0.00	1.70	0.76	YES	
L0048197	0	0.70820E-07	544167.0	3755218.6	283.2	0.00	1.70	0.76	YES	
L0048198	0	0.70820E-07	544170.6	3755218.6	283.2	0.00	1.70	0.76	YES	
L0048199	0	0.70820E-07	544174.3	3755218.6	283.2	0.00	1.70	0.76	YES	
L0048200	0	0.70820E-07	544177.9	3755218.6	283.2	0.00	1.70	0.76	YES	
L0048201	0	0.70820E-07	544181.6	3755218.6	283.2	0.00	1.70	0.76	YES	
L0048202	0	0.70820E-07	544185.3	3755218.5	283.2	0.00	1.70	0.76	YES	
L0048203	0	0.70820E-07	544188.9	3755218.5	283.2	0.00	1.70	0.76	YES	
L0048204	0	0.70820E-07	544192.6	3755218.5	283.2	0.00	1.70	0.76	YES	
L0048205	0	0.70820E-07	544196.2	3755218.5	283.2	0.00	1.70	0.76	YES	
L0048206	0	0.70820E-07	544199.9	3755218.5	283.2	0.00	1.70	0.76	YES	
L0048207	0	0.70820E-07	544203.5	3755218.5	283.2	0.00	1.70	0.76	YES	
L0048208	0	0.70820E-07	544207.2	3755218.4	283.2	0.00	1.70	0.76	YES	
L0048209	0	0.70820E-07	544210.9	3755218.4	283.2	0.00	1.70	0.76	YES	
L0048210	0	0.70820E-07	544214.5	3755218.4	283.2	0.00	1.70	0.76	YES	
L0048211	0	0.70820E-07	544218.2	3755218.4	283.2	0.00	1.70	0.76	YES	
L0048212	0	0.70820E-07	544221.8	3755218.4	283.1	0.00	1.70	0.76	YES	
L0048213	0	0.70820E-07	544225.5	3755218.3	283.1	0.00	1.70	0.76	YES	
L0048214	0	0.70820E-07	544229.1	3755218.3	283.1	0.00	1.70	0.76	YES	
L0048215	0	0.70820E-07	544232.8	3755218.3	283.1	0.00	1.70	0.76	YES	
L0048216	0	0.70820E-07	544236.5	3755218.3	283.1	0.00	1.70	0.76	YES	
L0048217	0	0.70820E-07	544240.1	3755218.3	283.1	0.00	1.70	0.76	YES	
L0048218	0	0.70820E-07	544243.8	3755218.3	283.1	0.00	1.70	0.76	YES	
L0048219	0	0.70820E-07	544247.4	3755218.2	283.1	0.00	1.70	0.76	YES	
L0048220	0	0.70820E-07	544251.1	3755218.2	283.0	0.00	1.70	0.76	YES	
L0048221	0	0.70820E-07	544254.8	3755218.2	283.0	0.00	1.70	0.76	YES	
L0048222	0	0.70820E-07	544258.4	3755218.2	283.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048223	0	0.70820E-07	544262.1	3755218.2	283.0	0.00	1.70	0.76	YES	
L0048224	0	0.70820E-07	544265.7	3755218.1	283.0	0.00	1.70	0.76	YES	

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L0048225         0   0.70820E-07  544269.4 3755218.1   283.0     0.00     1.70     0.76     YES
L0048226         0   0.70820E-07  544273.0 3755218.1   283.0     0.00     1.70     0.76     YES
L0048227         0   0.70820E-07  544276.7 3755218.1   283.0     0.00     1.70     0.76     YES
L0048228         0   0.70820E-07  544280.4 3755218.1   282.9     0.00     1.70     0.76     YES
L0048229         0   0.70820E-07  544284.0 3755218.0   282.9     0.00     1.70     0.76     YES
L0048230         0   0.70820E-07  544287.7 3755218.0   282.9     0.00     1.70     0.76     YES
L0048231         0   0.70820E-07  544291.3 3755218.0   282.9     0.00     1.70     0.76     YES
L0048232         0   0.70820E-07  544295.0 3755218.0   282.9     0.00     1.70     0.76     YES
L0048233         0   0.70820E-07  544298.6 3755218.0   282.9     0.00     1.70     0.76     YES
L0048234         0   0.70820E-07  544302.3 3755218.0   282.9     0.00     1.70     0.76     YES
L0048235         0   0.70820E-07  544306.0 3755217.9   282.9     0.00     1.70     0.76     YES
L0048236         0   0.70820E-07  544309.6 3755217.9   282.8     0.00     1.70     0.76     YES
L0048237         0   0.70820E-07  544313.3 3755217.9   282.8     0.00     1.70     0.76     YES
L0048238         0   0.70820E-07  544316.9 3755217.9   282.8     0.00     1.70     0.76     YES
L0048239         0   0.70820E-07  544320.6 3755217.9   282.8     0.00     1.70     0.76     YES
L0048240         0   0.70820E-07  544324.2 3755217.8   282.8     0.00     1.70     0.76     YES
L0048241         0   0.70820E-07  544327.9 3755217.8   282.8     0.00     1.70     0.76     YES
L0048242         0   0.70820E-07  544331.6 3755217.8   282.7     0.00     1.70     0.76     YES
L0048243         0   0.70820E-07  544335.2 3755217.8   282.7     0.00     1.70     0.76     YES
L0048244         0   0.70820E-07  544338.9 3755217.8   282.7     0.00     1.70     0.76     YES
L0048245         0   0.70820E-07  544342.5 3755217.8   282.7     0.00     1.70     0.76     YES
L0048246         0   0.70820E-07  544346.2 3755217.7   282.7     0.00     1.70     0.76     YES
L0048247         0   0.70820E-07  544349.8 3755217.7   282.7     0.00     1.70     0.76     YES
L0048248         0   0.70820E-07  544353.5 3755217.7   282.7     0.00     1.70     0.76     YES
L0048249         0   0.70820E-07  544357.2 3755217.7   282.6     0.00     1.70     0.76     YES
L0048250         0   0.70700E-07  544102.6 3754969.5   279.0     0.00     1.70     0.76     YES
L0048251         0   0.70700E-07  544106.2 3754969.5   279.0     0.00     1.70     0.76     YES
L0048252         0   0.70700E-07  544109.9 3754969.5   279.0     0.00     1.70     0.76     YES
L0048253         0   0.70700E-07  544113.5 3754969.5   279.0     0.00     1.70     0.76     YES
L0048254         0   0.70700E-07  544117.2 3754969.5   279.0     0.00     1.70     0.76     YES
L0048255         0   0.70700E-07  544120.9 3754969.6   279.0     0.00     1.70     0.76     YES
L0048256         0   0.70700E-07  544124.5 3754969.6   279.0     0.00     1.70     0.76     YES
L0048257         0   0.70700E-07  544128.2 3754969.6   279.0     0.00     1.70     0.76     YES
L0048258         0   0.70700E-07  544131.8 3754969.6   279.0     0.00     1.70     0.76     YES
L0048259         0   0.70700E-07  544135.5 3754969.6   279.0     0.00     1.70     0.76     YES
L0048260         0   0.70700E-07  544139.1 3754969.6   279.0     0.00     1.70     0.76     YES
L0048261         0   0.70700E-07  544142.8 3754969.6   279.0     0.00     1.70     0.76     YES
L0048262         0   0.70700E-07  544146.5 3754969.6   278.9     0.00     1.70     0.76     YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY

L0048263	0	0.70700E-07	544150.1	3754969.6	278.9	0.00	1.70	0.76	YES
L0048264	0	0.70700E-07	544153.8	3754969.6	278.9	0.00	1.70	0.76	YES
L0048265	0	0.70700E-07	544157.4	3754969.6	278.9	0.00	1.70	0.76	YES
L0048266	0	0.70700E-07	544161.1	3754969.7	278.9	0.00	1.70	0.76	YES
L0048267	0	0.70700E-07	544164.7	3754969.7	278.9	0.00	1.70	0.76	YES
L0048268	0	0.70700E-07	544168.4	3754969.7	278.9	0.00	1.70	0.76	YES
L0048269	0	0.70700E-07	544172.1	3754969.7	278.9	0.00	1.70	0.76	YES
L0048270	0	0.70700E-07	544175.7	3754969.7	278.8	0.00	1.70	0.76	YES
L0048271	0	0.70700E-07	544179.4	3754969.7	278.8	0.00	1.70	0.76	YES
L0048272	0	0.70700E-07	544183.0	3754969.7	278.8	0.00	1.70	0.76	YES
L0048273	0	0.70700E-07	544186.7	3754969.7	278.8	0.00	1.70	0.76	YES
L0048274	0	0.70700E-07	544190.3	3754969.7	278.8	0.00	1.70	0.76	YES
L0048275	0	0.70700E-07	544194.0	3754969.7	278.8	0.00	1.70	0.76	YES
L0048276	0	0.70700E-07	544197.7	3754969.7	278.8	0.00	1.70	0.76	YES
L0048277	0	0.70700E-07	544201.3	3754969.8	278.7	0.00	1.70	0.76	YES
L0048278	0	0.70700E-07	544205.0	3754969.8	278.7	0.00	1.70	0.76	YES
L0048279	0	0.70700E-07	544208.6	3754969.8	278.7	0.00	1.70	0.76	YES
L0048280	0	0.70700E-07	544212.3	3754969.8	278.7	0.00	1.70	0.76	YES
L0048281	0	0.70700E-07	544216.0	3754969.8	278.7	0.00	1.70	0.76	YES
L0048282	0	0.70700E-07	544219.6	3754969.8	278.7	0.00	1.70	0.76	YES
L0048283	0	0.70700E-07	544223.3	3754969.8	278.7	0.00	1.70	0.76	YES
L0048284	0	0.70700E-07	544226.9	3754969.8	278.7	0.00	1.70	0.76	YES
L0048285	0	0.70700E-07	544230.6	3754969.8	278.6	0.00	1.70	0.76	YES
L0048286	0	0.70700E-07	544234.2	3754969.8	278.6	0.00	1.70	0.76	YES
L0048287	0	0.70700E-07	544237.9	3754969.8	278.6	0.00	1.70	0.76	YES
L0048288	0	0.70700E-07	544241.6	3754969.9	278.6	0.00	1.70	0.76	YES
L0048289	0	0.70700E-07	544245.2	3754969.9	278.6	0.00	1.70	0.76	YES
L0048290	0	0.70700E-07	544248.9	3754969.9	278.6	0.00	1.70	0.76	YES
L0048291	0	0.70700E-07	544252.5	3754969.9	278.5	0.00	1.70	0.76	YES
L0048292	0	0.70700E-07	544256.2	3754969.9	278.5	0.00	1.70	0.76	YES
L0048293	0	0.70700E-07	544259.8	3754969.9	278.5	0.00	1.70	0.76	YES
L0048294	0	0.70700E-07	544263.5	3754969.9	278.5	0.00	1.70	0.76	YES
L0048295	0	0.70700E-07	544267.2	3754969.9	278.5	0.00	1.70	0.76	YES
L0048296	0	0.70700E-07	544270.8	3754969.9	278.4	0.00	1.70	0.76	YES
L0048297	0	0.70700E-07	544274.5	3754969.9	278.4	0.00	1.70	0.76	YES
L0048298	0	0.70700E-07	544278.1	3754969.9	278.4	0.00	1.70	0.76	YES
L0048299	0	0.70700E-07	544281.8	3754970.0	278.4	0.00	1.70	0.76	YES
L0048300	0	0.70700E-07	544285.4	3754970.0	278.4	0.00	1.70	0.76	YES
L0048301	0	0.70700E-07	544289.1	3754970.0	278.4	0.00	1.70	0.76	YES
L0048302	0	0.70700E-07	544292.8	3754970.0	278.3	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER	EMISSION RATE	BASE	RELEASE	INIT.	INIT.	URBAN	EMISSION RATE

SOURCE ID	PART. CATS.	(GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE	SCALAR VARY BY
L0048303	0	0.70700E-07	544296.4	3754970.0	278.3	0.00	1.70	0.76	YES	
L0048304	0	0.70700E-07	544300.1	3754970.0	278.3	0.00	1.70	0.76	YES	
L0048305	0	0.70700E-07	544303.7	3754970.0	278.3	0.00	1.70	0.76	YES	
L0048306	0	0.70700E-07	544307.4	3754970.0	278.2	0.00	1.70	0.76	YES	
L0048307	0	0.70700E-07	544311.0	3754970.0	278.2	0.00	1.70	0.76	YES	
L0048308	0	0.70700E-07	544314.7	3754970.0	278.2	0.00	1.70	0.76	YES	
L0048309	0	0.70700E-07	544318.4	3754970.0	278.2	0.00	1.70	0.76	YES	
L0048310	0	0.70700E-07	544322.0	3754970.1	278.2	0.00	1.70	0.76	YES	
L0048311	0	0.70700E-07	544325.7	3754970.1	278.2	0.00	1.70	0.76	YES	
L0048312	0	0.70700E-07	544329.3	3754970.1	278.2	0.00	1.70	0.76	YES	
L0048313	0	0.70700E-07	544333.0	3754970.1	278.1	0.00	1.70	0.76	YES	
L0048314	0	0.70700E-07	544336.7	3754970.1	278.1	0.00	1.70	0.76	YES	
L0048315	0	0.70700E-07	544340.3	3754970.1	278.1	0.00	1.70	0.76	YES	
L0048316	0	0.70700E-07	544344.0	3754970.1	278.1	0.00	1.70	0.76	YES	
L0048317	0	0.70700E-07	544347.6	3754970.1	278.1	0.00	1.70	0.76	YES	
L0048318	0	0.70700E-07	544351.3	3754970.1	278.1	0.00	1.70	0.76	YES	
L0048319	0	0.70700E-07	544354.9	3754970.1	278.0	0.00	1.70	0.76	YES	
L0048320	0	0.70700E-07	544358.6	3754970.1	278.0	0.00	1.70	0.76	YES	
L0048321	0	0.38440E-07	543688.1	3755636.9	294.1	0.00	1.70	0.76	YES	
L0048322	0	0.38440E-07	543688.1	3755640.6	294.2	0.00	1.70	0.76	YES	
L0048323	0	0.38440E-07	543688.1	3755644.2	294.2	0.00	1.70	0.76	YES	
L0048324	0	0.38440E-07	543688.1	3755647.9	294.3	0.00	1.70	0.76	YES	
L0048325	0	0.38440E-07	543688.1	3755651.5	294.4	0.00	1.70	0.76	YES	
L0048326	0	0.38440E-07	543688.1	3755655.2	294.5	0.00	1.70	0.76	YES	
L0048327	0	0.38440E-07	543688.1	3755658.9	294.6	0.00	1.70	0.76	YES	
L0048328	0	0.38440E-07	543688.2	3755662.5	294.6	0.00	1.70	0.76	YES	
L0048329	0	0.38440E-07	543688.2	3755666.2	294.7	0.00	1.70	0.76	YES	
L0048330	0	0.38440E-07	543688.2	3755669.8	294.8	0.00	1.70	0.76	YES	
L0048331	0	0.38440E-07	543688.2	3755673.5	294.9	0.00	1.70	0.76	YES	
L0048332	0	0.38440E-07	543688.2	3755677.1	294.9	0.00	1.70	0.76	YES	
L0048333	0	0.38440E-07	543688.2	3755680.8	295.0	0.00	1.70	0.76	YES	
L0048334	0	0.38440E-07	543688.2	3755684.5	295.1	0.00	1.70	0.76	YES	
L0048335	0	0.38440E-07	543688.2	3755688.1	295.2	0.00	1.70	0.76	YES	
L0048336	0	0.38440E-07	543688.2	3755691.8	295.2	0.00	1.70	0.76	YES	
L0048337	0	0.38440E-07	543688.3	3755695.4	295.3	0.00	1.70	0.76	YES	
L0048338	0	0.38440E-07	543688.3	3755699.1	295.4	0.00	1.70	0.76	YES	
L0048339	0	0.38440E-07	543688.3	3755702.8	295.5	0.00	1.70	0.76	YES	
L0048340	0	0.38440E-07	543688.3	3755706.4	295.6	0.00	1.70	0.76	YES	
L0048341	0	0.38440E-07	543688.3	3755710.1	295.6	0.00	1.70	0.76	YES	
L0048342	0	0.38440E-07	543688.3	3755713.7	295.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048343	0	0.38440E-07	543688.3	3755717.4	295.8	0.00	1.70	0.76	YES	
L0048344	0	0.38440E-07	543688.3	3755721.0	295.9	0.00	1.70	0.76	YES	
L0048345	0	0.38440E-07	543688.3	3755724.7	295.9	0.00	1.70	0.76	YES	
L0048346	0	0.38440E-07	543688.4	3755728.4	296.0	0.00	1.70	0.76	YES	
L0048347	0	0.38440E-07	543688.4	3755732.0	296.1	0.00	1.70	0.76	YES	
L0048348	0	0.38440E-07	543688.4	3755735.7	296.2	0.00	1.70	0.76	YES	
L0048349	0	0.38440E-07	543688.4	3755739.3	296.3	0.00	1.70	0.76	YES	
L0048350	0	0.38440E-07	543688.4	3755743.0	296.3	0.00	1.70	0.76	YES	
L0048351	0	0.38440E-07	543688.4	3755746.6	296.4	0.00	1.70	0.76	YES	
L0048352	0	0.38440E-07	543688.4	3755750.3	296.5	0.00	1.70	0.76	YES	
L0048353	0	0.38440E-07	543688.4	3755754.0	296.6	0.00	1.70	0.76	YES	
L0048354	0	0.38440E-07	543688.4	3755757.6	296.6	0.00	1.70	0.76	YES	
L0048355	0	0.38440E-07	543688.5	3755761.3	296.7	0.00	1.70	0.76	YES	
L0048356	0	0.38440E-07	543688.5	3755764.9	296.8	0.00	1.70	0.76	YES	
L0048357	0	0.38440E-07	543688.5	3755768.6	296.9	0.00	1.70	0.76	YES	
L0048358	0	0.38440E-07	543688.5	3755772.2	296.9	0.00	1.70	0.76	YES	
L0048359	0	0.38440E-07	543688.5	3755775.9	297.0	0.00	1.70	0.76	YES	
L0048360	0	0.38440E-07	543688.5	3755779.6	297.1	0.00	1.70	0.76	YES	
L0048361	0	0.38440E-07	543688.5	3755783.2	297.2	0.00	1.70	0.76	YES	
L0048362	0	0.38440E-07	543688.5	3755786.9	297.2	0.00	1.70	0.76	YES	
L0048363	0	0.38440E-07	543688.5	3755790.5	297.3	0.00	1.70	0.76	YES	
L0048364	0	0.38440E-07	543688.6	3755794.2	297.4	0.00	1.70	0.76	YES	
L0048365	0	0.38440E-07	543688.6	3755797.8	297.4	0.00	1.70	0.76	YES	
L0048366	0	0.38440E-07	543688.6	3755801.5	297.5	0.00	1.70	0.76	YES	
L0048367	0	0.38440E-07	543688.6	3755805.2	297.6	0.00	1.70	0.76	YES	
L0048368	0	0.38440E-07	543688.6	3755808.8	297.7	0.00	1.70	0.76	YES	
L0048369	0	0.38440E-07	543688.6	3755812.5	297.7	0.00	1.70	0.76	YES	
L0048370	0	0.38440E-07	543688.6	3755816.1	297.8	0.00	1.70	0.76	YES	
L0048371	0	0.38440E-07	543688.6	3755819.8	297.9	0.00	1.70	0.76	YES	
L0048372	0	0.38440E-07	543688.6	3755823.5	297.9	0.00	1.70	0.76	YES	
L0048373	0	0.38440E-07	543688.7	3755827.1	298.0	0.00	1.70	0.76	YES	
L0048374	0	0.38440E-07	543688.7	3755830.8	298.1	0.00	1.70	0.76	YES	
L0048375	0	0.38440E-07	543688.7	3755834.4	298.2	0.00	1.70	0.76	YES	
L0048376	0	0.38440E-07	543688.7	3755838.1	298.2	0.00	1.70	0.76	YES	
L0048377	0	0.38440E-07	543688.7	3755841.7	298.3	0.00	1.70	0.76	YES	
L0048378	0	0.38440E-07	543688.7	3755845.4	298.4	0.00	1.70	0.76	YES	
L0048379	0	0.38440E-07	543688.7	3755849.1	298.5	0.00	1.70	0.76	YES	
L0048380	0	0.38440E-07	543688.7	3755852.7	298.5	0.00	1.70	0.76	YES	
L0048381	0	0.38440E-07	543688.7	3755856.4	298.6	0.00	1.70	0.76	YES	
L0048382	0	0.38440E-07	543688.8	3755860.0	298.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048383	0	0.38440E-07	543688.8	3755863.7	298.8	0.00	1.70	0.76	YES	
L0048384	0	0.38440E-07	543688.8	3755867.3	298.8	0.00	1.70	0.76	YES	
L0048385	0	0.38440E-07	543688.8	3755871.0	298.9	0.00	1.70	0.76	YES	
L0048386	0	0.38440E-07	543688.8	3755874.7	299.0	0.00	1.70	0.76	YES	
L0048387	0	0.38440E-07	543688.8	3755878.3	299.1	0.00	1.70	0.76	YES	
L0048388	0	0.38440E-07	543688.8	3755882.0	299.1	0.00	1.70	0.76	YES	
L0048389	0	0.38440E-07	543688.8	3755885.6	299.2	0.00	1.70	0.76	YES	
L0048390	0	0.38440E-07	543688.8	3755889.3	299.3	0.00	1.70	0.76	YES	
L0048391	0	0.38440E-07	543688.9	3755892.9	299.4	0.00	1.70	0.76	YES	
L0048392	0	0.38440E-07	543688.9	3755896.6	299.4	0.00	1.70	0.76	YES	
L0048393	0	0.38440E-07	543688.9	3755900.3	299.5	0.00	1.70	0.76	YES	
L0048394	0	0.38440E-07	543688.9	3755903.9	299.6	0.00	1.70	0.76	YES	
L0048395	0	0.38440E-07	543688.9	3755907.6	299.7	0.00	1.70	0.76	YES	
L0048396	0	0.38440E-07	543688.9	3755911.2	299.7	0.00	1.70	0.76	YES	
L0048397	0	0.38440E-07	543688.9	3755914.9	299.8	0.00	1.70	0.76	YES	
L0048398	0	0.38440E-07	543688.9	3755918.5	299.9	0.00	1.70	0.76	YES	
L0048399	0	0.38440E-07	543688.9	3755922.2	299.9	0.00	1.70	0.76	YES	
L0048400	0	0.38440E-07	543689.0	3755925.9	300.0	0.00	1.70	0.76	YES	
L0048401	0	0.38440E-07	543689.0	3755929.5	300.1	0.00	1.70	0.76	YES	
L0048402	0	0.38440E-07	543689.0	3755933.2	300.2	0.00	1.70	0.76	YES	
L0048403	0	0.38440E-07	543689.0	3755936.8	300.2	0.00	1.70	0.76	YES	
L0048404	0	0.38440E-07	543689.0	3755940.5	300.3	0.00	1.70	0.76	YES	
L0048405	0	0.38440E-07	543689.0	3755944.2	300.4	0.00	1.70	0.76	YES	
L0048406	0	0.38440E-07	543689.0	3755947.8	300.4	0.00	1.70	0.76	YES	
L0048407	0	0.38440E-07	543689.0	3755951.5	300.5	0.00	1.70	0.76	YES	
L0048408	0	0.38440E-07	543689.0	3755955.1	300.6	0.00	1.70	0.76	YES	
L0048409	0	0.38440E-07	543689.1	3755958.8	300.6	0.00	1.70	0.76	YES	
L0048410	0	0.38440E-07	543689.1	3755962.4	300.7	0.00	1.70	0.76	YES	
L0048411	0	0.38440E-07	543689.1	3755966.1	300.8	0.00	1.70	0.76	YES	
L0048412	0	0.38440E-07	543689.1	3755969.8	300.8	0.00	1.70	0.76	YES	
L0048413	0	0.38440E-07	543689.1	3755973.4	300.9	0.00	1.70	0.76	YES	
L0048414	0	0.38440E-07	543689.1	3755977.1	301.0	0.00	1.70	0.76	YES	
L0048415	0	0.38440E-07	543689.1	3755980.7	301.0	0.00	1.70	0.76	YES	
L0048416	0	0.38440E-07	543689.1	3755984.4	301.1	0.00	1.70	0.76	YES	
L0048417	0	0.38440E-07	543689.1	3755988.0	301.2	0.00	1.70	0.76	YES	
L0048418	0	0.38440E-07	543689.2	3755991.7	301.2	0.00	1.70	0.76	YES	
L0048419	0	0.38440E-07	543689.2	3755995.4	301.3	0.00	1.70	0.76	YES	
L0048420	0	0.38440E-07	543689.2	3755999.0	301.4	0.00	1.70	0.76	YES	
L0048421	0	0.38440E-07	543689.2	3756002.7	301.4	0.00	1.70	0.76	YES	
L0048422	0	0.38440E-07	543689.2	3756006.3	301.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048423	0	0.38440E-07	543689.2	3756010.0	301.6	0.00	1.70	0.76	YES	
L0048424	0	0.38440E-07	543689.2	3756013.6	301.6	0.00	1.70	0.76	YES	
L0048425	0	0.38440E-07	543689.2	3756017.3	301.7	0.00	1.70	0.76	YES	
L0048426	0	0.38440E-07	543689.2	3756021.0	301.8	0.00	1.70	0.76	YES	
L0048427	0	0.38440E-07	543689.3	3756024.6	301.8	0.00	1.70	0.76	YES	
L0048428	0	0.38440E-07	543689.3	3756028.3	301.9	0.00	1.70	0.76	YES	
L0048429	0	0.38440E-07	543689.3	3756031.9	302.0	0.00	1.70	0.76	YES	
L0048430	0	0.38440E-07	543689.3	3756035.6	302.0	0.00	1.70	0.76	YES	
L0048431	0	0.38440E-07	543689.3	3756039.2	302.1	0.00	1.70	0.76	YES	
L0048432	0	0.38440E-07	543689.3	3756042.9	302.2	0.00	1.70	0.76	YES	
L0048433	0	0.38440E-07	543689.3	3756046.6	302.2	0.00	1.70	0.76	YES	
L0048434	0	0.38440E-07	543689.3	3756050.2	302.3	0.00	1.70	0.76	YES	
L0048435	0	0.38440E-07	543689.3	3756053.9	302.4	0.00	1.70	0.76	YES	
L0048436	0	0.38440E-07	543689.4	3756057.5	302.4	0.00	1.70	0.76	YES	
L0048437	0	0.38440E-07	543689.4	3756061.2	302.5	0.00	1.70	0.76	YES	
L0048438	0	0.38440E-07	543689.4	3756064.9	302.6	0.00	1.70	0.76	YES	
L0048439	0	0.38440E-07	543689.4	3756068.5	302.7	0.00	1.70	0.76	YES	
L0048440	0	0.38440E-07	543689.4	3756072.2	302.7	0.00	1.70	0.76	YES	
L0048441	0	0.38440E-07	543689.4	3756075.8	302.8	0.00	1.70	0.76	YES	
L0048442	0	0.38440E-07	543689.4	3756079.5	302.9	0.00	1.70	0.76	YES	
L0048443	0	0.38440E-07	543689.4	3756083.1	302.9	0.00	1.70	0.76	YES	
L0048444	0	0.38440E-07	543689.4	3756086.8	303.0	0.00	1.70	0.76	YES	
L0048445	0	0.38440E-07	543689.5	3756090.5	303.1	0.00	1.70	0.76	YES	
L0048446	0	0.38440E-07	543689.5	3756094.1	303.1	0.00	1.70	0.76	YES	
L0048447	0	0.38440E-07	543689.5	3756097.8	303.2	0.00	1.70	0.76	YES	
L0048448	0	0.38440E-07	543689.5	3756101.4	303.3	0.00	1.70	0.76	YES	
L0048449	0	0.38440E-07	543689.5	3756105.1	303.4	0.00	1.70	0.76	YES	
L0048450	0	0.38440E-07	543689.5	3756108.7	303.4	0.00	1.70	0.76	YES	
L0048451	0	0.38440E-07	543689.5	3756112.4	303.5	0.00	1.70	0.76	YES	
L0048452	0	0.38440E-07	543689.5	3756116.1	303.6	0.00	1.70	0.76	YES	
L0048453	0	0.38440E-07	543689.5	3756119.7	303.6	0.00	1.70	0.76	YES	
L0048454	0	0.38440E-07	543689.6	3756123.4	303.7	0.00	1.70	0.76	YES	
L0048455	0	0.38440E-07	543689.6	3756127.0	303.8	0.00	1.70	0.76	YES	
L0048456	0	0.38440E-07	543689.6	3756130.7	303.9	0.00	1.70	0.76	YES	
L0048457	0	0.38440E-07	543689.6	3756134.3	303.9	0.00	1.70	0.76	YES	
L0048458	0	0.38440E-07	543689.6	3756138.0	304.0	0.00	1.70	0.76	YES	
L0048459	0	0.38440E-07	543689.6	3756141.7	304.1	0.00	1.70	0.76	YES	
L0048460	0	0.38440E-07	543689.6	3756145.3	304.2	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048461	0	0.38440E-07	543689.6	3756149.0	304.2	0.00	1.70	0.76	YES	
L0048462	0	0.38440E-07	543689.6	3756152.6	304.3	0.00	1.70	0.76	YES	
L0048463	0	0.38440E-07	543689.7	3756156.3	304.4	0.00	1.70	0.76	YES	
L0048464	0	0.38440E-07	543689.7	3756159.9	304.4	0.00	1.70	0.76	YES	
L0048465	0	0.38440E-07	543689.7	3756163.6	304.5	0.00	1.70	0.76	YES	
L0048466	0	0.38440E-07	543689.7	3756167.3	304.5	0.00	1.70	0.76	YES	
L0048467	0	0.38440E-07	543689.7	3756170.9	304.6	0.00	1.70	0.76	YES	
L0048468	0	0.38440E-07	543689.7	3756174.6	304.7	0.00	1.70	0.76	YES	
L0048469	0	0.38440E-07	543689.7	3756178.2	304.7	0.00	1.70	0.76	YES	
L0048470	0	0.38440E-07	543689.7	3756181.9	304.8	0.00	1.70	0.76	YES	
L0048471	0	0.38440E-07	543689.7	3756185.6	304.9	0.00	1.70	0.76	YES	
L0048472	0	0.38440E-07	543689.8	3756189.2	304.9	0.00	1.70	0.76	YES	
L0048473	0	0.38440E-07	543689.8	3756192.9	305.0	0.00	1.70	0.76	YES	
L0048474	0	0.38440E-07	543689.8	3756196.5	305.1	0.00	1.70	0.76	YES	
L0048475	0	0.38440E-07	543689.8	3756200.2	305.1	0.00	1.70	0.76	YES	
L0048476	0	0.38440E-07	543689.8	3756203.8	305.2	0.00	1.70	0.76	YES	
L0048477	0	0.38440E-07	543689.8	3756207.5	305.3	0.00	1.70	0.76	YES	
L0048478	0	0.38440E-07	543689.8	3756211.2	305.3	0.00	1.70	0.76	YES	
L0048479	0	0.38440E-07	543689.8	3756214.8	305.4	0.00	1.70	0.76	YES	
L0048480	0	0.38440E-07	543689.8	3756218.5	305.4	0.00	1.70	0.76	YES	
L0048481	0	0.38440E-07	543689.9	3756222.1	305.5	0.00	1.70	0.76	YES	
L0048482	0	0.38440E-07	543689.9	3756225.8	305.5	0.00	1.70	0.76	YES	
L0048483	0	0.38440E-07	543689.9	3756229.4	305.6	0.00	1.70	0.76	YES	
L0048484	0	0.38440E-07	543689.9	3756233.1	305.6	0.00	1.70	0.76	YES	
L0048485	0	0.38440E-07	543689.9	3756236.8	305.7	0.00	1.70	0.76	YES	
L0048486	0	0.38440E-07	543689.9	3756240.4	305.7	0.00	1.70	0.76	YES	
L0048487	0	0.38440E-07	543689.9	3756244.1	305.8	0.00	1.70	0.76	YES	
L0048488	0	0.38440E-07	543689.9	3756247.7	305.8	0.00	1.70	0.76	YES	
L0048489	0	0.38440E-07	543689.9	3756251.4	305.9	0.00	1.70	0.76	YES	
L0048490	0	0.38440E-07	543690.0	3756255.0	305.9	0.00	1.70	0.76	YES	
L0048491	0	0.38440E-07	543690.0	3756258.7	306.0	0.00	1.70	0.76	YES	
L0048492	0	0.38440E-07	543690.0	3756262.4	306.0	0.00	1.70	0.76	YES	
L0048493	0	0.38440E-07	543690.0	3756266.0	306.1	0.00	1.70	0.76	YES	
L0048494	0	0.38440E-07	543690.0	3756269.7	306.1	0.00	1.70	0.76	YES	
L0048495	0	0.38440E-07	543690.0	3756273.3	306.2	0.00	1.70	0.76	YES	
L0048496	0	0.38440E-07	543690.0	3756277.0	306.3	0.00	1.70	0.76	YES	
L0048497	0	0.38440E-07	543690.0	3756280.6	306.3	0.00	1.70	0.76	YES	

L0048498	0	0.38440E-07	543690.0	3756284.3	306.4	0.00	1.70	0.76	YES	
L0048499	0	0.38440E-07	543690.1	3756288.0	306.5	0.00	1.70	0.76	YES	
L0048500	0	0.38440E-07	543690.1	3756291.6	306.6	0.00	1.70	0.76	YES	
L0048501	0	0.38440E-07	543690.1	3756295.3	306.6	0.00	1.70	0.76	YES	
L0048502	0	0.38440E-07	543690.1	3756298.9	306.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048503	0	0.38440E-07	543690.1	3756302.6	306.7	0.00	1.70	0.76	YES	
L0048504	0	0.38440E-07	543690.1	3756306.3	306.8	0.00	1.70	0.76	YES	
L0048505	0	0.38440E-07	543690.1	3756309.9	306.8	0.00	1.70	0.76	YES	
L0048506	0	0.38440E-07	543690.1	3756313.6	306.9	0.00	1.70	0.76	YES	
L0048507	0	0.38440E-07	543690.1	3756317.2	306.9	0.00	1.70	0.76	YES	
L0048508	0	0.38440E-07	543690.2	3756320.9	307.0	0.00	1.70	0.76	YES	
L0048509	0	0.38440E-07	543690.2	3756324.5	307.0	0.00	1.70	0.76	YES	
L0048510	0	0.38440E-07	543690.2	3756328.2	307.1	0.00	1.70	0.76	YES	
L0048511	0	0.38440E-07	543690.2	3756331.9	307.1	0.00	1.70	0.76	YES	
L0048512	0	0.38440E-07	543690.2	3756335.5	307.2	0.00	1.70	0.76	YES	
L0048513	0	0.38440E-07	543690.2	3756339.2	307.3	0.00	1.70	0.76	YES	
L0048514	0	0.38440E-07	543690.2	3756342.8	307.3	0.00	1.70	0.76	YES	
L0048515	0	0.38440E-07	543690.2	3756346.5	307.4	0.00	1.70	0.76	YES	
L0048516	0	0.38440E-07	543690.2	3756350.1	307.5	0.00	1.70	0.76	YES	
L0048517	0	0.38440E-07	543690.3	3756353.8	307.5	0.00	1.70	0.76	YES	
L0048518	0	0.38440E-07	543690.3	3756357.5	307.6	0.00	1.70	0.76	YES	
L0048519	0	0.38440E-07	543690.3	3756361.1	307.7	0.00	1.70	0.76	YES	
L0048520	0	0.18530E-07	543696.2	3756365.7	307.7	0.00	1.70	0.76	YES	
L0048521	0	0.18530E-07	543699.9	3756365.7	307.7	0.00	1.70	0.76	YES	
L0048522	0	0.18530E-07	543703.5	3756365.7	307.7	0.00	1.70	0.76	YES	
L0048523	0	0.18530E-07	543707.2	3756365.8	307.7	0.00	1.70	0.76	YES	
L0048524	0	0.18530E-07	543710.9	3756365.8	307.7	0.00	1.70	0.76	YES	
L0048525	0	0.18530E-07	543714.5	3756365.8	307.6	0.00	1.70	0.76	YES	
L0048526	0	0.18530E-07	543718.2	3756365.8	307.6	0.00	1.70	0.76	YES	
L0048527	0	0.18530E-07	543721.8	3756365.8	307.6	0.00	1.70	0.76	YES	
L0048528	0	0.18530E-07	543725.5	3756365.9	307.6	0.00	1.70	0.76	YES	
L0048529	0	0.18530E-07	543729.1	3756365.9	307.6	0.00	1.70	0.76	YES	
L0048530	0	0.18530E-07	543732.8	3756365.9	307.6	0.00	1.70	0.76	YES	
L0048531	0	0.18530E-07	543736.5	3756365.9	307.6	0.00	1.70	0.76	YES	
L0048532	0	0.18530E-07	543740.1	3756366.0	307.6	0.00	1.70	0.76	YES	
L0048533	0	0.18530E-07	543743.8	3756366.0	307.5	0.00	1.70	0.76	YES	
L0048534	0	0.18530E-07	543747.4	3756366.0	307.5	0.00	1.70	0.76	YES	

L0048535	0	0.18530E-07	543751.1	3756366.0	307.5	0.00	1.70	0.76	YES	
L0048536	0	0.18530E-07	543754.8	3756366.1	307.4	0.00	1.70	0.76	YES	
L0048537	0	0.18530E-07	543758.4	3756366.1	307.4	0.00	1.70	0.76	YES	
L0048538	0	0.18530E-07	543762.1	3756366.1	307.4	0.00	1.70	0.76	YES	
L0048539	0	0.18530E-07	543765.7	3756366.1	307.4	0.00	1.70	0.76	YES	
L0048540	0	0.18530E-07	543769.4	3756366.2	307.3	0.00	1.70	0.76	YES	
L0048541	0	0.18530E-07	543773.0	3756366.2	307.3	0.00	1.70	0.76	YES	
L0048542	0	0.18530E-07	543776.7	3756366.2	307.3	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048543	0	0.18530E-07	543780.4	3756366.2	307.2	0.00	1.70	0.76	YES	
L0048544	0	0.18530E-07	543784.0	3756366.3	307.2	0.00	1.70	0.76	YES	
L0048545	0	0.18530E-07	543787.7	3756366.3	307.1	0.00	1.70	0.76	YES	
L0048546	0	0.18530E-07	543791.3	3756366.3	307.0	0.00	1.70	0.76	YES	
L0048547	0	0.18530E-07	543795.0	3756366.3	306.9	0.00	1.70	0.76	YES	
L0048548	0	0.18530E-07	543798.6	3756366.4	306.9	0.00	1.70	0.76	YES	
L0048549	0	0.18530E-07	543802.3	3756366.4	306.8	0.00	1.70	0.76	YES	
L0048550	0	0.18530E-07	543806.0	3756366.4	306.7	0.00	1.70	0.76	YES	
L0048551	0	0.18530E-07	543809.6	3756366.4	306.7	0.00	1.70	0.76	YES	
L0048552	0	0.18530E-07	543813.3	3756366.5	306.6	0.00	1.70	0.76	YES	
L0048553	0	0.18530E-07	543816.9	3756366.5	306.5	0.00	1.70	0.76	YES	
L0048554	0	0.18530E-07	543820.6	3756366.5	306.5	0.00	1.70	0.76	YES	
L0048555	0	0.18530E-07	543824.2	3756366.5	306.4	0.00	1.70	0.76	YES	
L0048556	0	0.18530E-07	543827.9	3756366.6	306.3	0.00	1.70	0.76	YES	
L0048557	0	0.18530E-07	543831.6	3756366.6	306.3	0.00	1.70	0.76	YES	
L0048558	0	0.18530E-07	543835.2	3756366.6	306.3	0.00	1.70	0.76	YES	
L0048559	0	0.18530E-07	543838.9	3756366.6	306.2	0.00	1.70	0.76	YES	
L0048560	0	0.18530E-07	543842.5	3756366.7	306.2	0.00	1.70	0.76	YES	
L0048561	0	0.18530E-07	543846.2	3756366.7	306.2	0.00	1.70	0.76	YES	
L0048562	0	0.18530E-07	543849.8	3756366.7	306.1	0.00	1.70	0.76	YES	
L0048563	0	0.18530E-07	543853.5	3756366.7	306.1	0.00	1.70	0.76	YES	
L0048564	0	0.18530E-07	543857.2	3756366.8	306.1	0.00	1.70	0.76	YES	
L0048565	0	0.18530E-07	543860.8	3756366.8	306.1	0.00	1.70	0.76	YES	
L0048566	0	0.18530E-07	543864.5	3756366.8	306.2	0.00	1.70	0.76	YES	
L0048567	0	0.18530E-07	543868.1	3756366.8	306.2	0.00	1.70	0.76	YES	
L0048568	0	0.18530E-07	543871.8	3756366.9	306.2	0.00	1.70	0.76	YES	
L0048569	0	0.18530E-07	543875.4	3756366.9	306.2	0.00	1.70	0.76	YES	
L0048570	0	0.18530E-07	543879.1	3756366.9	306.2	0.00	1.70	0.76	YES	
L0048571	0	0.18530E-07	543882.8	3756366.9	306.2	0.00	1.70	0.76	YES	

L0048572	0	0.18530E-07	543886.4	3756367.0	306.2	0.00	1.70	0.76	YES
L0048573	0	0.18530E-07	543890.1	3756367.0	306.2	0.00	1.70	0.76	YES
L0048574	0	0.18530E-07	543893.7	3756367.0	306.2	0.00	1.70	0.76	YES
L0048575	0	0.18530E-07	543897.4	3756367.0	306.1	0.00	1.70	0.76	YES
L0048576	0	0.18530E-07	543901.1	3756367.1	306.1	0.00	1.70	0.76	YES
L0048577	0	0.18530E-07	543904.7	3756367.1	306.1	0.00	1.70	0.76	YES
L0048578	0	0.18530E-07	543908.4	3756367.1	306.1	0.00	1.70	0.76	YES
L0048579	0	0.18530E-07	543912.0	3756367.1	306.0	0.00	1.70	0.76	YES
L0048580	0	0.18530E-07	543915.7	3756367.2	306.0	0.00	1.70	0.76	YES
L0048581	0	0.18530E-07	543919.3	3756367.2	306.0	0.00	1.70	0.76	YES
L0048582	0	0.18530E-07	543923.0	3756367.2	305.9	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048583	0	0.18530E-07	543926.7	3756367.2	305.9	0.00	1.70	0.76	YES	
L0048584	0	0.18530E-07	543930.3	3756367.3	305.9	0.00	1.70	0.76	YES	
L0048585	0	0.18530E-07	543934.0	3756367.3	305.8	0.00	1.70	0.76	YES	
L0048586	0	0.18530E-07	543937.6	3756367.3	305.8	0.00	1.70	0.76	YES	
L0048587	0	0.18530E-07	543941.3	3756367.3	305.8	0.00	1.70	0.76	YES	
L0048588	0	0.18530E-07	543944.9	3756367.4	305.7	0.00	1.70	0.76	YES	
L0048589	0	0.18530E-07	543948.6	3756367.4	305.7	0.00	1.70	0.76	YES	
L0048590	0	0.18530E-07	543952.3	3756367.4	305.7	0.00	1.70	0.76	YES	
L0048591	0	0.18530E-07	543955.9	3756367.4	305.6	0.00	1.70	0.76	YES	
L0048592	0	0.18530E-07	543959.6	3756367.5	305.6	0.00	1.70	0.76	YES	
L0048593	0	0.18530E-07	543963.2	3756367.5	305.6	0.00	1.70	0.76	YES	
L0048594	0	0.18530E-07	543966.9	3756367.5	305.5	0.00	1.70	0.76	YES	
L0048595	0	0.18530E-07	543970.5	3756367.5	305.5	0.00	1.70	0.76	YES	
L0048596	0	0.18530E-07	543974.2	3756367.6	305.5	0.00	1.70	0.76	YES	
L0048597	0	0.18530E-07	543977.9	3756367.6	305.4	0.00	1.70	0.76	YES	
L0048598	0	0.18530E-07	543981.5	3756367.6	305.4	0.00	1.70	0.76	YES	
L0048599	0	0.18530E-07	543985.2	3756367.6	305.4	0.00	1.70	0.76	YES	
L0048600	0	0.18530E-07	543988.8	3756367.7	305.3	0.00	1.70	0.76	YES	
L0048601	0	0.18530E-07	543992.5	3756367.7	305.3	0.00	1.70	0.76	YES	
L0048602	0	0.18530E-07	543996.1	3756367.7	305.3	0.00	1.70	0.76	YES	
L0048603	0	0.18530E-07	543999.8	3756367.7	305.2	0.00	1.70	0.76	YES	
L0048604	0	0.18530E-07	544003.5	3756367.8	305.2	0.00	1.70	0.76	YES	
L0048605	0	0.18530E-07	544007.1	3756367.8	305.2	0.00	1.70	0.76	YES	
L0048606	0	0.18530E-07	544010.8	3756367.8	305.2	0.00	1.70	0.76	YES	
L0048607	0	0.18530E-07	544014.4	3756367.8	305.1	0.00	1.70	0.76	YES	
L0048608	0	0.18530E-07	544018.1	3756367.9	305.1	0.00	1.70	0.76	YES	

L0048609	0	0.18530E-07	544021.7	3756367.9	305.1	0.00	1.70	0.76	YES	
L0048610	0	0.18530E-07	544025.4	3756367.9	305.0	0.00	1.70	0.76	YES	
L0048611	0	0.18530E-07	544029.1	3756367.9	305.0	0.00	1.70	0.76	YES	
L0048612	0	0.18530E-07	544032.7	3756368.0	305.0	0.00	1.70	0.76	YES	
L0048613	0	0.18530E-07	544036.4	3756368.0	304.9	0.00	1.70	0.76	YES	
L0048614	0	0.18530E-07	544040.0	3756368.0	304.9	0.00	1.70	0.76	YES	
L0048615	0	0.18530E-07	544043.7	3756368.0	304.9	0.00	1.70	0.76	YES	
L0048616	0	0.18530E-07	544047.4	3756368.1	304.9	0.00	1.70	0.76	YES	
L0048617	0	0.18530E-07	544051.0	3756368.1	304.8	0.00	1.70	0.76	YES	
L0048618	0	0.18530E-07	544054.7	3756368.1	304.8	0.00	1.70	0.76	YES	
L0048619	0	0.18530E-07	544058.3	3756368.1	304.8	0.00	1.70	0.76	YES	
L0048620	0	0.18530E-07	544062.0	3756368.1	304.8	0.00	1.70	0.76	YES	
L0048621	0	0.18530E-07	544065.6	3756368.2	304.7	0.00	1.70	0.76	YES	
L0048622	0	0.18530E-07	544069.3	3756368.2	304.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048623	0	0.18530E-07	544073.0	3756368.2	304.7	0.00	1.70	0.76	YES	
L0048624	0	0.18530E-07	544076.6	3756368.2	304.7	0.00	1.70	0.76	YES	
L0048625	0	0.18530E-07	544080.3	3756368.3	304.7	0.00	1.70	0.76	YES	
L0048626	0	0.18530E-07	544083.9	3756368.3	304.6	0.00	1.70	0.76	YES	
L0048627	0	0.18530E-07	544087.6	3756368.3	304.6	0.00	1.70	0.76	YES	
L0048628	0	0.18530E-07	544091.2	3756368.3	304.6	0.00	1.70	0.76	YES	
L0048629	0	0.18530E-07	544094.9	3756368.4	304.6	0.00	1.70	0.76	YES	
L0048630	0	0.18530E-07	544098.6	3756368.4	304.5	0.00	1.70	0.76	YES	
L0048631	0	0.18530E-07	544102.2	3756368.4	304.5	0.00	1.70	0.76	YES	
L0048632	0	0.18530E-07	544105.9	3756368.4	304.5	0.00	1.70	0.76	YES	
L0048633	0	0.18530E-07	544109.5	3756368.5	304.5	0.00	1.70	0.76	YES	
L0048634	0	0.18530E-07	544113.2	3756368.5	304.4	0.00	1.70	0.76	YES	
L0048635	0	0.18530E-07	544116.8	3756368.5	304.4	0.00	1.70	0.76	YES	
L0048636	0	0.18530E-07	544120.5	3756368.5	304.4	0.00	1.70	0.76	YES	
L0048637	0	0.18530E-07	544124.2	3756368.6	304.4	0.00	1.70	0.76	YES	
L0048638	0	0.18530E-07	544127.8	3756368.6	304.4	0.00	1.70	0.76	YES	
L0048639	0	0.18530E-07	544131.5	3756368.6	304.4	0.00	1.70	0.76	YES	
L0048640	0	0.18530E-07	544135.1	3756368.6	304.4	0.00	1.70	0.76	YES	
L0048641	0	0.18530E-07	544138.8	3756368.7	304.3	0.00	1.70	0.76	YES	
L0048642	0	0.18530E-07	544142.4	3756368.7	304.3	0.00	1.70	0.76	YES	
L0048643	0	0.18530E-07	544146.1	3756368.7	304.3	0.00	1.70	0.76	YES	
L0048644	0	0.18530E-07	544149.8	3756368.7	304.2	0.00	1.70	0.76	YES	
L0048645	0	0.18530E-07	544153.4	3756368.8	304.2	0.00	1.70	0.76	YES	

L0048646	0	0.18530E-07	544157.1	3756368.8	304.2	0.00	1.70	0.76	YES	
L0048647	0	0.18530E-07	544160.7	3756368.8	304.1	0.00	1.70	0.76	YES	
L0048648	0	0.18530E-07	544164.4	3756368.8	304.1	0.00	1.70	0.76	YES	
L0048649	0	0.18530E-07	544168.0	3756368.9	304.0	0.00	1.70	0.76	YES	
L0048650	0	0.18530E-07	544171.7	3756368.9	304.0	0.00	1.70	0.76	YES	
L0048651	0	0.18530E-07	544175.4	3756368.9	304.0	0.00	1.70	0.76	YES	
L0048652	0	0.18530E-07	544179.0	3756368.9	303.9	0.00	1.70	0.76	YES	
L0048653	0	0.18530E-07	544182.7	3756369.0	303.9	0.00	1.70	0.76	YES	
L0048654	0	0.18530E-07	544186.3	3756369.0	303.8	0.00	1.70	0.76	YES	
L0048655	0	0.18530E-07	544190.0	3756369.0	303.8	0.00	1.70	0.76	YES	
L0048656	0	0.18530E-07	544193.7	3756369.0	303.8	0.00	1.70	0.76	YES	
L0048657	0	0.18530E-07	544197.3	3756369.1	303.7	0.00	1.70	0.76	YES	
L0048658	0	0.18530E-07	544201.0	3756369.1	303.7	0.00	1.70	0.76	YES	
L0048659	0	0.18530E-07	544204.6	3756369.1	303.6	0.00	1.70	0.76	YES	
L0048660	0	0.18530E-07	544208.3	3756369.1	303.6	0.00	1.70	0.76	YES	
L0048661	0	0.18530E-07	544211.9	3756369.2	303.5	0.00	1.70	0.76	YES	
L0048662	0	0.18530E-07	544215.6	3756369.2	303.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048663	0	0.18530E-07	544219.3	3756369.2	303.5	0.00	1.70	0.76	YES	
L0048664	0	0.18530E-07	544222.9	3756369.2	303.4	0.00	1.70	0.76	YES	
L0048665	0	0.18530E-07	544226.6	3756369.3	303.4	0.00	1.70	0.76	YES	
L0048666	0	0.18530E-07	544230.2	3756369.3	303.4	0.00	1.70	0.76	YES	
L0048667	0	0.18530E-07	544233.9	3756369.3	303.3	0.00	1.70	0.76	YES	
L0048668	0	0.18530E-07	544237.5	3756369.3	303.3	0.00	1.70	0.76	YES	
L0048669	0	0.18530E-07	544241.2	3756369.4	303.3	0.00	1.70	0.76	YES	
L0048670	0	0.18530E-07	544244.9	3756369.4	303.2	0.00	1.70	0.76	YES	
L0048671	0	0.18530E-07	544248.5	3756369.4	303.2	0.00	1.70	0.76	YES	
L0048672	0	0.18530E-07	544252.2	3756369.4	303.1	0.00	1.70	0.76	YES	
L0048673	0	0.18530E-07	544255.8	3756369.5	303.1	0.00	1.70	0.76	YES	
L0048674	0	0.18530E-07	544259.5	3756369.5	303.0	0.00	1.70	0.76	YES	
L0048675	0	0.18530E-07	544263.1	3756369.5	303.0	0.00	1.70	0.76	YES	
L0048676	0	0.18530E-07	544266.8	3756369.5	303.0	0.00	1.70	0.76	YES	
L0048677	0	0.18530E-07	544270.5	3756369.6	302.9	0.00	1.70	0.76	YES	
L0048678	0	0.18530E-07	544274.1	3756369.6	302.9	0.00	1.70	0.76	YES	
L0048679	0	0.18530E-07	544277.8	3756369.6	302.9	0.00	1.70	0.76	YES	
L0048680	0	0.18530E-07	544281.4	3756369.6	302.8	0.00	1.70	0.76	YES	
L0048681	0	0.18530E-07	544285.1	3756369.7	302.8	0.00	1.70	0.76	YES	
L0048682	0	0.18530E-07	544288.7	3756369.7	302.8	0.00	1.70	0.76	YES	

L0048683	0	0.18530E-07	544292.4	3756369.7	302.7	0.00	1.70	0.76	YES	
L0048684	0	0.18530E-07	544296.1	3756369.7	302.7	0.00	1.70	0.76	YES	
L0048685	0	0.18530E-07	544299.7	3756369.8	302.7	0.00	1.70	0.76	YES	
L0048686	0	0.18530E-07	544303.4	3756369.8	302.7	0.00	1.70	0.76	YES	
L0048687	0	0.18530E-07	544307.0	3756369.8	302.6	0.00	1.70	0.76	YES	
L0048688	0	0.18530E-07	544310.7	3756369.8	302.6	0.00	1.70	0.76	YES	
L0048689	0	0.18530E-07	544314.4	3756369.9	302.6	0.00	1.70	0.76	YES	
L0048690	0	0.18530E-07	544318.0	3756369.9	302.6	0.00	1.70	0.76	YES	
L0048691	0	0.18530E-07	544321.7	3756369.9	302.5	0.00	1.70	0.76	YES	
L0048692	0	0.18530E-07	544325.3	3756369.9	302.5	0.00	1.70	0.76	YES	
L0048693	0	0.18530E-07	544329.0	3756370.0	302.5	0.00	1.70	0.76	YES	
L0048694	0	0.18530E-07	544332.6	3756370.0	302.4	0.00	1.70	0.76	YES	
L0048695	0	0.18530E-07	544336.3	3756370.0	302.4	0.00	1.70	0.76	YES	
L0048696	0	0.18530E-07	544340.0	3756370.0	302.4	0.00	1.70	0.76	YES	
L0048697	0	0.18530E-07	544343.6	3756370.1	302.3	0.00	1.70	0.76	YES	
L0048698	0	0.18530E-07	544347.3	3756370.1	302.2	0.00	1.70	0.76	YES	
L0048699	0	0.18530E-07	544350.9	3756370.1	302.2	0.00	1.70	0.76	YES	
L0048700	0	0.18530E-07	544354.6	3756370.1	302.1	0.00	1.70	0.76	YES	
L0048701	0	0.18530E-07	544358.2	3756370.2	302.1	0.00	1.70	0.76	YES	
L0048702	0	0.18530E-07	544361.9	3756370.2	302.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048703	0	0.18530E-07	544365.6	3756370.2	301.9	0.00	1.70	0.76	YES	
L0048704	0	0.18530E-07	544369.2	3756370.2	301.8	0.00	1.70	0.76	YES	
L0048705	0	0.18530E-07	544372.9	3756370.3	301.5	0.00	1.70	0.76	YES	
L0048706	0	0.18530E-07	544376.5	3756370.3	301.2	0.00	1.70	0.76	YES	
L0048707	0	0.18530E-07	544380.2	3756370.3	301.0	0.00	1.70	0.76	YES	
L0048708	0	0.18530E-07	544383.8	3756370.3	300.7	0.00	1.70	0.76	YES	
L0048709	0	0.18530E-07	544387.5	3756370.4	300.5	0.00	1.70	0.76	YES	
L0048710	0	0.18530E-07	544391.2	3756370.4	300.2	0.00	1.70	0.76	YES	
L0048711	0	0.18530E-07	544394.8	3756370.4	300.1	0.00	1.70	0.76	YES	
L0048712	0	0.18530E-07	544398.5	3756370.4	300.1	0.00	1.70	0.76	YES	
L0048713	0	0.18530E-07	544402.1	3756370.5	300.2	0.00	1.70	0.76	YES	
L0048714	0	0.18530E-07	544405.8	3756370.5	300.2	0.00	1.70	0.76	YES	
L0048715	0	0.18530E-07	544409.4	3756370.5	300.3	0.00	1.70	0.76	YES	
L0048716	0	0.18530E-07	544413.1	3756370.5	300.3	0.00	1.70	0.76	YES	
L0048717	0	0.18530E-07	544416.8	3756370.5	300.4	0.00	1.70	0.76	YES	
L0048718	0	0.18530E-07	544420.4	3756370.6	300.4	0.00	1.70	0.76	YES	
L0048719	0	0.18530E-07	544424.1	3756370.6	300.4	0.00	1.70	0.76	YES	

L0048720	0	0.18530E-07	544427.7	3756370.6	300.3	0.00	1.70	0.76	YES
L0048721	0	0.18530E-07	544431.4	3756370.6	300.3	0.00	1.70	0.76	YES
L0048722	0	0.18530E-07	544435.0	3756370.7	300.2	0.00	1.70	0.76	YES
L0048723	0	0.18530E-07	544438.7	3756370.7	300.2	0.00	1.70	0.76	YES
L0048724	0	0.18530E-07	544442.4	3756370.7	300.2	0.00	1.70	0.76	YES
L0048725	0	0.18530E-07	544446.0	3756370.7	300.1	0.00	1.70	0.76	YES
L0048726	0	0.18530E-07	544449.7	3756370.8	300.0	0.00	1.70	0.76	YES
L0048727	0	0.18530E-07	544453.3	3756370.8	299.9	0.00	1.70	0.76	YES
L0048728	0	0.18530E-07	544457.0	3756370.8	299.9	0.00	1.70	0.76	YES
L0048729	0	0.18530E-07	544460.7	3756370.8	299.8	0.00	1.70	0.76	YES
L0048730	0	0.18530E-07	544464.3	3756370.9	299.7	0.00	1.70	0.76	YES
L0048731	0	0.18530E-07	544468.0	3756370.9	299.6	0.00	1.70	0.76	YES
L0048732	0	0.18530E-07	544471.6	3756370.9	299.6	0.00	1.70	0.76	YES
L0048733	0	0.18530E-07	544475.3	3756370.9	299.6	0.00	1.70	0.76	YES
L0048734	0	0.18530E-07	544478.9	3756371.0	299.6	0.00	1.70	0.76	YES
L0048735	0	0.18530E-07	544482.6	3756371.0	299.6	0.00	1.70	0.76	YES
L0048736	0	0.18530E-07	544486.3	3756371.0	299.6	0.00	1.70	0.76	YES
L0048737	0	0.18530E-07	544489.9	3756371.0	299.7	0.00	1.70	0.76	YES
L0048738	0	0.18530E-07	544493.6	3756371.1	299.7	0.00	1.70	0.76	YES
L0048739	0	0.18530E-07	544497.2	3756371.1	299.8	0.00	1.70	0.76	YES
L0048740	0	0.18530E-07	544500.9	3756371.1	300.1	0.00	1.70	0.76	YES
L0048741	0	0.18530E-07	544504.5	3756371.1	300.3	0.00	1.70	0.76	YES
L0048742	0	0.18530E-07	544508.2	3756371.2	300.6	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048743	0	0.18530E-07	544511.9	3756371.2	300.9	0.00	1.70	0.76	YES	
L0048744	0	0.18530E-07	544515.5	3756371.2	301.1	0.00	1.70	0.76	YES	
L0048745	0	0.18530E-07	544519.2	3756371.2	301.4	0.00	1.70	0.76	YES	
L0048746	0	0.18530E-07	544522.8	3756371.3	301.6	0.00	1.70	0.76	YES	
L0048747	0	0.18530E-07	544526.5	3756371.3	301.5	0.00	1.70	0.76	YES	
L0048748	0	0.18530E-07	544530.1	3756371.3	301.5	0.00	1.70	0.76	YES	
L0048749	0	0.18530E-07	544533.8	3756371.3	301.5	0.00	1.70	0.76	YES	
L0048750	0	0.18530E-07	544537.5	3756371.4	301.4	0.00	1.70	0.76	YES	
L0048751	0	0.18530E-07	544541.1	3756371.4	301.4	0.00	1.70	0.76	YES	
L0048752	0	0.18530E-07	544544.8	3756371.4	301.4	0.00	1.70	0.76	YES	
L0048753	0	0.18530E-07	544548.4	3756371.4	301.3	0.00	1.70	0.76	YES	
L0048754	0	0.18530E-07	544552.1	3756371.5	301.3	0.00	1.70	0.76	YES	
L0048755	0	0.18530E-07	544555.7	3756371.5	301.2	0.00	1.70	0.76	YES	
L0048756	0	0.18530E-07	544559.4	3756371.5	301.2	0.00	1.70	0.76	YES	

L0048757	0	0.18530E-07	544563.1	3756371.5	301.1	0.00	1.70	0.76	YES	
L0048758	0	0.18530E-07	544566.7	3756371.6	301.1	0.00	1.70	0.76	YES	
L0048759	0	0.18530E-07	544570.4	3756371.6	301.0	0.00	1.70	0.76	YES	
L0048760	0	0.18530E-07	544574.0	3756371.6	301.0	0.00	1.70	0.76	YES	
L0048761	0	0.18530E-07	544577.7	3756371.6	300.9	0.00	1.70	0.76	YES	
L0048762	0	0.18530E-07	544581.3	3756371.7	300.9	0.00	1.70	0.76	YES	
L0048763	0	0.18530E-07	544585.0	3756371.7	300.8	0.00	1.70	0.76	YES	
L0048764	0	0.18530E-07	544588.7	3756371.7	300.8	0.00	1.70	0.76	YES	
L0048765	0	0.18530E-07	544592.3	3756371.7	300.7	0.00	1.70	0.76	YES	
L0048766	0	0.18530E-07	544596.0	3756371.8	300.6	0.00	1.70	0.76	YES	
L0048767	0	0.18530E-07	544599.6	3756371.8	300.6	0.00	1.70	0.76	YES	
L0048768	0	0.18530E-07	544603.3	3756371.8	300.5	0.00	1.70	0.76	YES	
L0048769	0	0.18530E-07	544607.0	3756371.8	300.4	0.00	1.70	0.76	YES	
L0048770	0	0.18530E-07	544610.6	3756371.9	300.4	0.00	1.70	0.76	YES	
L0048771	0	0.18530E-07	544614.3	3756371.9	300.3	0.00	1.70	0.76	YES	
L0048772	0	0.18530E-07	544617.9	3756371.9	300.2	0.00	1.70	0.76	YES	
L0048773	0	0.18530E-07	544621.6	3756371.9	300.2	0.00	1.70	0.76	YES	
L0048774	0	0.18530E-07	544625.2	3756372.0	300.1	0.00	1.70	0.76	YES	
L0048775	0	0.18530E-07	544628.9	3756372.0	300.0	0.00	1.70	0.76	YES	
L0048776	0	0.18530E-07	544632.6	3756372.0	300.0	0.00	1.70	0.76	YES	
L0048777	0	0.18530E-07	544636.2	3756372.0	299.9	0.00	1.70	0.76	YES	
L0048778	0	0.18530E-07	544639.9	3756372.1	299.8	0.00	1.70	0.76	YES	
L0048779	0	0.18530E-07	544643.5	3756372.1	299.8	0.00	1.70	0.76	YES	
L0048780	0	0.18530E-07	544647.2	3756372.1	299.7	0.00	1.70	0.76	YES	
L0048781	0	0.18530E-07	544650.8	3756372.1	299.6	0.00	1.70	0.76	YES	
L0048782	0	0.18530E-07	544654.5	3756372.2	299.6	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048783	0	0.18530E-07	544658.2	3756372.2	299.6	0.00	1.70	0.76	YES	
L0048784	0	0.18530E-07	544661.8	3756372.2	299.5	0.00	1.70	0.76	YES	
L0048785	0	0.18530E-07	544665.5	3756372.2	299.5	0.00	1.70	0.76	YES	
L0048786	0	0.18530E-07	544669.1	3756372.3	299.4	0.00	1.70	0.76	YES	
L0048787	0	0.18530E-07	544672.8	3756372.3	299.4	0.00	1.70	0.76	YES	
L0048788	0	0.18530E-07	544676.4	3756372.3	299.4	0.00	1.70	0.76	YES	
L0048789	0	0.18530E-07	544680.1	3756372.3	299.3	0.00	1.70	0.76	YES	
L0048790	0	0.18530E-07	544683.8	3756372.4	299.3	0.00	1.70	0.76	YES	
L0048791	0	0.18530E-07	544687.4	3756372.4	299.3	0.00	1.70	0.76	YES	
L0048792	0	0.18530E-07	544691.1	3756372.4	299.3	0.00	1.70	0.76	YES	
L0048793	0	0.18530E-07	544694.7	3756372.4	299.3	0.00	1.70	0.76	YES	

L0048794	0	0.18530E-07	544698.4	3756372.5	299.2	0.00	1.70	0.76	YES
L0048795	0	0.18530E-07	544702.0	3756372.5	299.2	0.00	1.70	0.76	YES
L0048796	0	0.18530E-07	544705.7	3756372.5	299.2	0.00	1.70	0.76	YES
L0048797	0	0.18530E-07	544709.4	3756372.5	299.2	0.00	1.70	0.76	YES
L0048798	0	0.18530E-07	544713.0	3756372.6	299.2	0.00	1.70	0.76	YES
L0048799	0	0.18530E-07	544716.7	3756372.6	299.2	0.00	1.70	0.76	YES
L0048800	0	0.18530E-07	544720.3	3756372.6	299.1	0.00	1.70	0.76	YES
L0048801	0	0.18530E-07	544724.0	3756372.6	299.1	0.00	1.70	0.76	YES
L0048802	0	0.18530E-07	544727.6	3756372.7	299.1	0.00	1.70	0.76	YES
L0048803	0	0.18530E-07	544731.3	3756372.7	299.1	0.00	1.70	0.76	YES
L0048804	0	0.18530E-07	544735.0	3756372.7	299.0	0.00	1.70	0.76	YES
L0048805	0	0.18530E-07	544738.6	3756372.7	299.0	0.00	1.70	0.76	YES
L0048806	0	0.18530E-07	544742.3	3756372.8	299.0	0.00	1.70	0.76	YES
L0048807	0	0.18530E-07	544745.9	3756372.8	299.0	0.00	1.70	0.76	YES
L0048808	0	0.18530E-07	544749.6	3756372.8	298.9	0.00	1.70	0.76	YES
L0048809	0	0.18530E-07	544753.3	3756372.8	298.9	0.00	1.70	0.76	YES
L0048810	0	0.18530E-07	544756.9	3756372.8	298.9	0.00	1.70	0.76	YES
L0048811	0	0.18530E-07	544760.6	3756372.9	298.9	0.00	1.70	0.76	YES
L0048812	0	0.18530E-07	544764.2	3756372.9	298.8	0.00	1.70	0.76	YES
L0048813	0	0.18530E-07	544767.9	3756372.9	298.8	0.00	1.70	0.76	YES
L0048814	0	0.18530E-07	544771.5	3756372.9	298.8	0.00	1.70	0.76	YES
L0048815	0	0.18530E-07	544775.2	3756373.0	298.7	0.00	1.70	0.76	YES
L0048816	0	0.18530E-07	544778.9	3756373.0	298.7	0.00	1.70	0.76	YES
L0048817	0	0.18530E-07	544782.5	3756373.0	298.7	0.00	1.70	0.76	YES
L0048818	0	0.18530E-07	544786.2	3756373.0	298.7	0.00	1.70	0.76	YES
L0048819	0	0.18530E-07	544789.8	3756373.1	298.7	0.00	1.70	0.76	YES
L0048820	0	0.18530E-07	544793.5	3756373.1	298.6	0.00	1.70	0.76	YES
L0048821	0	0.18530E-07	544797.1	3756373.1	298.6	0.00	1.70	0.76	YES
L0048822	0	0.18530E-07	544800.8	3756373.1	298.6	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048823	0	0.18530E-07	544804.5	3756373.2	298.6	0.00	1.70	0.76	YES	
L0048824	0	0.18530E-07	544808.1	3756373.2	298.5	0.00	1.70	0.76	YES	
L0048825	0	0.18530E-07	544811.8	3756373.2	298.5	0.00	1.70	0.76	YES	
L0048826	0	0.18530E-07	544815.4	3756373.2	298.5	0.00	1.70	0.76	YES	
L0048827	0	0.18530E-07	544819.1	3756373.3	298.4	0.00	1.70	0.76	YES	
L0048828	0	0.18530E-07	544822.7	3756373.3	298.4	0.00	1.70	0.76	YES	
L0048829	0	0.18530E-07	544826.4	3756373.3	298.4	0.00	1.70	0.76	YES	
L0048830	0	0.18530E-07	544830.1	3756373.3	298.3	0.00	1.70	0.76	YES	

L0048831	0	0.18530E-07	544833.7	3756373.4	298.3	0.00	1.70	0.76	YES
L0048832	0	0.18530E-07	544837.4	3756373.4	298.3	0.00	1.70	0.76	YES
L0048833	0	0.18530E-07	544841.0	3756373.4	298.2	0.00	1.70	0.76	YES
L0048834	0	0.18530E-07	544844.7	3756373.4	298.2	0.00	1.70	0.76	YES
L0048835	0	0.18530E-07	544848.3	3756373.5	298.2	0.00	1.70	0.76	YES
L0048836	0	0.18530E-07	544852.0	3756373.5	298.2	0.00	1.70	0.76	YES
L0048837	0	0.18530E-07	544855.7	3756373.5	298.1	0.00	1.70	0.76	YES
L0048838	0	0.18530E-07	544859.3	3756373.5	298.1	0.00	1.70	0.76	YES
L0048839	0	0.18530E-07	544863.0	3756373.6	298.1	0.00	1.70	0.76	YES
L0048840	0	0.18530E-07	544866.6	3756373.6	298.1	0.00	1.70	0.76	YES
L0048841	0	0.18530E-07	544870.3	3756373.6	298.0	0.00	1.70	0.76	YES
L0048842	0	0.18530E-07	544874.0	3756373.6	298.0	0.00	1.70	0.76	YES
L0048843	0	0.18530E-07	544877.6	3756373.7	298.0	0.00	1.70	0.76	YES
L0048844	0	0.18530E-07	544881.3	3756373.7	297.9	0.00	1.70	0.76	YES
L0048845	0	0.18530E-07	544884.9	3756373.7	297.9	0.00	1.70	0.76	YES
L0048846	0	0.18530E-07	544888.6	3756373.7	297.9	0.00	1.70	0.76	YES
L0048847	0	0.18530E-07	544892.2	3756373.8	297.9	0.00	1.70	0.76	YES
L0048848	0	0.18530E-07	544895.9	3756373.8	297.9	0.00	1.70	0.76	YES
L0048849	0	0.18530E-07	544899.6	3756373.8	297.8	0.00	1.70	0.76	YES
L0048850	0	0.18530E-07	544903.2	3756373.8	297.8	0.00	1.70	0.76	YES
L0048851	0	0.18530E-07	544906.9	3756373.9	297.8	0.00	1.70	0.76	YES
L0048852	0	0.18530E-07	544910.5	3756373.9	297.8	0.00	1.70	0.76	YES
L0048853	0	0.18530E-07	544914.2	3756373.9	297.7	0.00	1.70	0.76	YES
L0048854	0	0.18530E-07	544917.8	3756373.9	297.7	0.00	1.70	0.76	YES
L0048855	0	0.18530E-07	544921.5	3756374.0	297.7	0.00	1.70	0.76	YES
L0048856	0	0.18530E-07	544925.2	3756374.0	297.7	0.00	1.70	0.76	YES
L0048857	0	0.18530E-07	544928.8	3756374.0	297.6	0.00	1.70	0.76	YES
L0048858	0	0.18530E-07	544932.5	3756374.0	297.6	0.00	1.70	0.76	YES
L0048859	0	0.18530E-07	544936.1	3756374.1	297.6	0.00	1.70	0.76	YES
L0048860	0	0.18530E-07	544939.8	3756374.1	297.5	0.00	1.70	0.76	YES
L0048861	0	0.18530E-07	544943.4	3756374.1	297.5	0.00	1.70	0.76	YES
L0048862	0	0.18530E-07	544947.1	3756374.1	297.5	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048863	0	0.18530E-07	544950.8	3756374.2	297.4	0.00	1.70	0.76	YES	
L0048864	0	0.18530E-07	544954.4	3756374.2	297.4	0.00	1.70	0.76	YES	
L0048865	0	0.18530E-07	544958.1	3756374.2	297.4	0.00	1.70	0.76	YES	
L0048866	0	0.18530E-07	544961.7	3756374.2	297.3	0.00	1.70	0.76	YES	
L0048867	0	0.18530E-07	544965.4	3756374.3	297.3	0.00	1.70	0.76	YES	

L0048868	0	0.18530E-07	544969.0	3756374.3	297.2	0.00	1.70	0.76	YES	
L0048869	0	0.18530E-07	544972.7	3756374.3	297.2	0.00	1.70	0.76	YES	
L0048870	0	0.18530E-07	544976.4	3756374.3	297.1	0.00	1.70	0.76	YES	
L0048871	0	0.18530E-07	544980.0	3756374.4	297.1	0.00	1.70	0.76	YES	
L0048872	0	0.18530E-07	544983.7	3756374.4	297.1	0.00	1.70	0.76	YES	
L0048873	0	0.18530E-07	544987.3	3756374.4	297.0	0.00	1.70	0.76	YES	
L0048874	0	0.18530E-07	544991.0	3756374.3	297.0	0.00	1.70	0.76	YES	
L0048875	0	0.18530E-07	544994.6	3756374.3	296.9	0.00	1.70	0.76	YES	
L0048876	0	0.18530E-07	544998.3	3756374.3	296.9	0.00	1.70	0.76	YES	
L0048877	0	0.18530E-07	545002.0	3756374.2	296.9	0.00	1.70	0.76	YES	
L0048878	0	0.18530E-07	545005.6	3756374.2	296.8	0.00	1.70	0.76	YES	
L0048879	0	0.18530E-07	545009.3	3756374.2	296.8	0.00	1.70	0.76	YES	
L0048880	0	0.18530E-07	545012.9	3756374.1	296.7	0.00	1.70	0.76	YES	
L0048881	0	0.18530E-07	545016.6	3756374.1	296.7	0.00	1.70	0.76	YES	
L0048882	0	0.18530E-07	545020.2	3756374.1	296.6	0.00	1.70	0.76	YES	
L0048883	0	0.18530E-07	545023.9	3756374.0	296.6	0.00	1.70	0.76	YES	
L0048884	0	0.18530E-07	545027.6	3756374.0	296.5	0.00	1.70	0.76	YES	
L0048885	0	0.18530E-07	545031.2	3756374.0	296.5	0.00	1.70	0.76	YES	
L0048886	0	0.18530E-07	545034.9	3756374.0	296.4	0.00	1.70	0.76	YES	
L0048887	0	0.18530E-07	545038.5	3756373.9	296.4	0.00	1.70	0.76	YES	
L0048888	0	0.18530E-07	545042.2	3756373.9	296.4	0.00	1.70	0.76	YES	
L0048889	0	0.18530E-07	545045.9	3756373.9	296.4	0.00	1.70	0.76	YES	
L0048890	0	0.18530E-07	545049.5	3756373.8	296.4	0.00	1.70	0.76	YES	
L0048891	0	0.18530E-07	545053.2	3756373.8	296.4	0.00	1.70	0.76	YES	
L0048892	0	0.18530E-07	545056.8	3756373.8	296.4	0.00	1.70	0.76	YES	
L0048893	0	0.18530E-07	545060.5	3756373.7	296.4	0.00	1.70	0.76	YES	
L0048894	0	0.18530E-07	545064.1	3756373.7	296.3	0.00	1.70	0.76	YES	
L0048895	0	0.18530E-07	545067.8	3756373.7	296.2	0.00	1.70	0.76	YES	
L0048896	0	0.18530E-07	545071.5	3756373.6	296.2	0.00	1.70	0.76	YES	
L0048897	0	0.18530E-07	545075.1	3756373.6	296.1	0.00	1.70	0.76	YES	
L0048898	0	0.18530E-07	545078.8	3756373.6	296.1	0.00	1.70	0.76	YES	
L0048899	0	0.18530E-07	545082.4	3756373.6	296.0	0.00	1.70	0.76	YES	
L0048900	0	0.18530E-07	545086.1	3756373.5	295.9	0.00	1.70	0.76	YES	
L0048901	0	0.18530E-07	545089.7	3756373.5	295.9	0.00	1.70	0.76	YES	
L0048902	0	0.18530E-07	545093.4	3756373.5	296.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0048903	0	0.18530E-07	545097.1	3756373.4	296.0	0.00	1.70	0.76	YES	
L0048904	0	0.18530E-07	545100.7	3756373.4	296.0	0.00	1.70	0.76	YES	

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L0048905         0   0.18530E-07  545104.4 3756373.4   296.0     0.00     1.70     0.76     YES
L0048906         0   0.18530E-07  545108.0 3756373.3   296.0     0.00     1.70     0.76     YES
L0048907         0   0.18530E-07  545111.7 3756373.3   296.0     0.00     1.70     0.76     YES
L0048908         0   0.18530E-07  545115.3 3756373.3   296.0     0.00     1.70     0.76     YES
L0048909         0   0.18530E-07  545119.0 3756373.2   295.9     0.00     1.70     0.76     YES
L0048910         0   0.18530E-07  545122.7 3756373.2   295.9     0.00     1.70     0.76     YES
L0048911         0   0.18530E-07  545126.3 3756373.2   295.8     0.00     1.70     0.76     YES
L0048912         0   0.18530E-07  545130.0 3756373.2   295.8     0.00     1.70     0.76     YES
L0048913         0   0.18530E-07  545133.6 3756373.1   295.7     0.00     1.70     0.76     YES
L0048914         0   0.18530E-07  545137.3 3756373.1   295.7     0.00     1.70     0.76     YES
L0048915         0   0.18530E-07  545140.9 3756373.1   295.6     0.00     1.70     0.76     YES
L0048916         0   0.18530E-07  545144.6 3756373.0   295.6     0.00     1.70     0.76     YES
L0048917         0   0.18530E-07  545148.3 3756373.0   295.6     0.00     1.70     0.76     YES
L0048918         0   0.18530E-07  545151.9 3756373.0   295.5     0.00     1.70     0.76     YES
L0048919         0   0.18530E-07  545155.6 3756372.9   295.5     0.00     1.70     0.76     YES
L0048920         0   0.18530E-07  545159.2 3756372.9   295.5     0.00     1.70     0.76     YES
L0048921         0   0.18530E-07  545162.9 3756372.9   295.4     0.00     1.70     0.76     YES
L0048922         0   0.18530E-07  545166.5 3756372.8   295.4     0.00     1.70     0.76     YES
L0048923         0   0.18530E-07  545170.2 3756372.8   295.4     0.00     1.70     0.76     YES
L0048924         0   0.18530E-07  545173.9 3756372.8   295.4     0.00     1.70     0.76     YES
L0048925         0   0.18530E-07  545177.5 3756372.8   295.4     0.00     1.70     0.76     YES
L0048926         0   0.18530E-07  545181.2 3756372.7   295.4     0.00     1.70     0.76     YES
L0048927         0   0.18530E-07  545184.8 3756372.7   295.4     0.00     1.70     0.76     YES
L0048928         0   0.18530E-07  545188.5 3756372.7   295.4     0.00     1.70     0.76     YES
L0048929         0   0.18530E-07  545192.2 3756372.6   295.4     0.00     1.70     0.76     YES
L0048930         0   0.18530E-07  545195.8 3756372.6   295.3     0.00     1.70     0.76     YES
L0048931         0   0.18530E-07  545199.5 3756372.6   295.3     0.00     1.70     0.76     YES
L0048932         0   0.18530E-07  545203.1 3756372.5   295.3     0.00     1.70     0.76     YES
L0048933         0   0.18530E-07  545206.8 3756372.5   295.2     0.00     1.70     0.76     YES
L0048934         0   0.18530E-07  545210.4 3756372.5   295.2     0.00     1.70     0.76     YES
L0048935         0   0.18530E-07  545214.1 3756372.4   295.2     0.00     1.70     0.76     YES
L0048936         0   0.18530E-07  545217.8 3756372.4   295.1     0.00     1.70     0.76     YES
L0048937         0   0.18530E-07  545221.4 3756372.4   295.1     0.00     1.70     0.76     YES
L0048938         0   0.18530E-07  545225.1 3756372.4   295.1     0.00     1.70     0.76     YES
L0048939         0   0.18530E-07  545228.7 3756372.3   295.1     0.00     1.70     0.76     YES
L0048940         0   0.18530E-07  545232.4 3756372.3   295.1     0.00     1.70     0.76     YES
L0048941         0   0.18530E-07  545236.0 3756372.3   295.1     0.00     1.70     0.76     YES
L0048942         0   0.18530E-07  545239.7 3756372.2   295.0     0.00     1.70     0.76     YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY

L0048943	0	0.18530E-07	545243.4	3756372.2	295.0	0.00	1.70	0.76	YES
L0048944	0	0.18530E-07	545247.0	3756372.2	295.0	0.00	1.70	0.76	YES
L0048945	0	0.18530E-07	545250.7	3756372.1	294.9	0.00	1.70	0.76	YES
L0048946	0	0.18530E-07	545254.3	3756372.1	294.9	0.00	1.70	0.76	YES
L0048947	0	0.18530E-07	545258.0	3756372.1	294.9	0.00	1.70	0.76	YES
L0048948	0	0.18530E-07	545261.6	3756372.0	294.9	0.00	1.70	0.76	YES
L0048949	0	0.18530E-07	545265.3	3756372.0	294.9	0.00	1.70	0.76	YES
L0048950	0	0.18530E-07	545269.0	3756372.0	294.8	0.00	1.70	0.76	YES
L0048951	0	0.18530E-07	545272.6	3756372.0	294.8	0.00	1.70	0.76	YES
L0048952	0	0.18530E-07	545276.3	3756371.9	294.8	0.00	1.70	0.76	YES
L0048953	0	0.18530E-07	545279.9	3756371.9	294.8	0.00	1.70	0.76	YES
L0048954	0	0.18530E-07	545283.6	3756371.9	294.7	0.00	1.70	0.76	YES
L0048955	0	0.18530E-07	545287.2	3756371.8	294.7	0.00	1.70	0.76	YES
L0048956	0	0.18530E-07	545290.9	3756371.8	294.7	0.00	1.70	0.76	YES
L0048957	0	0.18530E-07	545294.6	3756371.8	294.7	0.00	1.70	0.76	YES
L0048958	0	0.18530E-07	545298.2	3756371.7	294.6	0.00	1.70	0.76	YES
L0048959	0	0.18530E-07	545301.9	3756371.7	294.6	0.00	1.70	0.76	YES
L0048960	0	0.18530E-07	545305.5	3756371.7	294.6	0.00	1.70	0.76	YES
L0048961	0	0.18530E-07	545309.2	3756371.6	294.6	0.00	1.70	0.76	YES
L0048962	0	0.18530E-07	545312.8	3756371.6	294.6	0.00	1.70	0.76	YES
L0048963	0	0.18530E-07	545316.5	3756371.6	294.5	0.00	1.70	0.76	YES
L0048964	0	0.18530E-07	545320.2	3756371.6	294.5	0.00	1.70	0.76	YES
L0048965	0	0.18530E-07	545323.8	3756371.5	294.5	0.00	1.70	0.76	YES
L0048966	0	0.18530E-07	545327.5	3756371.5	294.4	0.00	1.70	0.76	YES
L0048967	0	0.18530E-07	545331.1	3756371.5	294.4	0.00	1.70	0.76	YES
L0048968	0	0.18530E-07	545334.8	3756371.4	294.4	0.00	1.70	0.76	YES
L0048969	0	0.18530E-07	545338.5	3756371.4	294.4	0.00	1.70	0.76	YES
L0048970	0	0.18530E-07	545342.1	3756371.4	294.3	0.00	1.70	0.76	YES
L0048971	0	0.18530E-07	545345.8	3756371.3	294.3	0.00	1.70	0.76	YES
L0048972	0	0.18530E-07	545349.4	3756371.3	294.3	0.00	1.70	0.76	YES
L0048973	0	0.18530E-07	545353.1	3756371.3	294.2	0.00	1.70	0.76	YES
L0048974	0	0.18530E-07	545356.7	3756371.2	294.2	0.00	1.70	0.76	YES
L0048975	0	0.18530E-07	545360.4	3756371.2	294.2	0.00	1.70	0.76	YES
L0048976	0	0.18530E-07	545364.1	3756371.2	294.1	0.00	1.70	0.76	YES
L0048977	0	0.18530E-07	545367.7	3756371.2	294.1	0.00	1.70	0.76	YES
L0048978	0	0.18530E-07	545371.4	3756371.1	294.0	0.00	1.70	0.76	YES
L0048979	0	0.18530E-07	545375.0	3756371.1	294.0	0.00	1.70	0.76	YES
L0048980	0	0.18530E-07	545378.7	3756371.1	293.9	0.00	1.70	0.76	YES
L0048981	0	0.18530E-07	545382.3	3756371.0	293.9	0.00	1.70	0.76	YES
L0048982	0	0.18530E-07	545386.0	3756371.0	293.8	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER	EMISSION RATE	BASE	RELEASE	INIT.	INIT.	URBAN	EMISSION RATE

SOURCE ID	PART. CATS.	(GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE	SCALAR VARY BY
L0048983	0	0.18530E-07	545389.7	3756371.0	293.8	0.00	1.70	0.76	YES	
L0048984	0	0.18530E-07	545393.3	3756370.9	293.7	0.00	1.70	0.76	YES	
L0048985	0	0.18530E-07	545397.0	3756370.9	293.7	0.00	1.70	0.76	YES	
L0048986	0	0.18530E-07	545400.6	3756370.9	293.6	0.00	1.70	0.76	YES	
L0048987	0	0.18530E-07	545404.3	3756370.8	293.6	0.00	1.70	0.76	YES	
L0048988	0	0.18530E-07	545407.9	3756370.8	293.5	0.00	1.70	0.76	YES	
L0048989	0	0.18530E-07	545411.6	3756370.8	293.5	0.00	1.70	0.76	YES	
L0048990	0	0.18530E-07	545415.3	3756370.8	293.4	0.00	1.70	0.76	YES	
L0048991	0	0.18530E-07	545418.9	3756370.7	293.4	0.00	1.70	0.76	YES	
L0048992	0	0.18530E-07	545422.6	3756370.7	293.3	0.00	1.70	0.76	YES	
L0048993	0	0.18530E-07	545426.2	3756370.7	293.3	0.00	1.70	0.76	YES	
L0048994	0	0.18530E-07	545429.9	3756370.6	293.3	0.00	1.70	0.76	YES	
L0048995	0	0.18530E-07	545433.5	3756370.6	293.2	0.00	1.70	0.76	YES	
L0048996	0	0.18530E-07	545437.2	3756370.6	293.2	0.00	1.70	0.76	YES	
L0048997	0	0.18530E-07	545440.9	3756370.5	293.2	0.00	1.70	0.76	YES	
L0048998	0	0.18530E-07	545444.5	3756370.5	293.1	0.00	1.70	0.76	YES	
L0048999	0	0.18530E-07	545448.2	3756370.5	293.1	0.00	1.70	0.76	YES	
L0049000	0	0.18530E-07	545451.8	3756370.4	293.1	0.00	1.70	0.76	YES	
L0049001	0	0.18530E-07	545455.5	3756370.4	293.1	0.00	1.70	0.76	YES	
L0049002	0	0.18530E-07	545459.1	3756370.4	293.0	0.00	1.70	0.76	YES	
L0049003	0	0.18530E-07	545462.8	3756370.4	293.0	0.00	1.70	0.76	YES	
L0049004	0	0.18530E-07	545466.5	3756370.3	293.0	0.00	1.70	0.76	YES	
L0049005	0	0.18530E-07	545470.1	3756370.3	292.9	0.00	1.70	0.76	YES	
L0049006	0	0.18530E-07	545473.8	3756370.3	292.9	0.00	1.70	0.76	YES	
L0049007	0	0.18530E-07	545477.4	3756370.2	292.9	0.00	1.70	0.76	YES	
L0049008	0	0.18530E-07	545481.1	3756370.2	292.8	0.00	1.70	0.76	YES	
L0049009	0	0.18530E-07	545484.7	3756370.2	292.8	0.00	1.70	0.76	YES	
L0049010	0	0.18530E-07	545488.4	3756370.1	292.8	0.00	1.70	0.76	YES	
L0049011	0	0.18530E-07	545492.1	3756370.1	292.7	0.00	1.70	0.76	YES	
L0049012	0	0.18530E-07	545495.7	3756370.1	292.7	0.00	1.70	0.76	YES	
L0049013	0	0.18530E-07	545499.4	3756370.0	292.7	0.00	1.70	0.76	YES	
L0049014	0	0.18530E-07	545503.0	3756370.0	292.7	0.00	1.70	0.76	YES	
L0049015	0	0.18530E-07	545506.7	3756370.0	292.6	0.00	1.70	0.76	YES	
L0049016	0	0.18530E-07	545510.4	3756370.0	292.6	0.00	1.70	0.76	YES	
L0049017	0	0.18530E-07	545514.0	3756369.9	292.6	0.00	1.70	0.76	YES	
L0049018	0	0.18530E-07	545517.7	3756369.9	292.6	0.00	1.70	0.76	YES	
L0049019	0	0.18530E-07	545521.3	3756369.9	292.6	0.00	1.70	0.76	YES	
L0049020	0	0.18530E-07	545525.0	3756369.8	292.6	0.00	1.70	0.76	YES	
L0049021	0	0.18530E-07	545528.6	3756369.8	292.6	0.00	1.70	0.76	YES	
L0049022	0	0.18530E-07	545532.3	3756369.8	292.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049023	0	0.18530E-07	545536.0	3756369.7	292.5	0.00	1.70	0.76	YES	
L0049024	0	0.18530E-07	545539.6	3756369.7	292.5	0.00	1.70	0.76	YES	
L0049025	0	0.18530E-07	545543.3	3756369.7	292.5	0.00	1.70	0.76	YES	
L0049026	0	0.18530E-07	545546.9	3756369.6	292.5	0.00	1.70	0.76	YES	
L0049027	0	0.18530E-07	545550.6	3756369.6	292.4	0.00	1.70	0.76	YES	
L0049028	0	0.18530E-07	545554.2	3756369.6	292.4	0.00	1.70	0.76	YES	
L0049029	0	0.18530E-07	545557.9	3756369.6	292.4	0.00	1.70	0.76	YES	
L0049030	0	0.18530E-07	545561.6	3756369.5	292.3	0.00	1.70	0.76	YES	
L0049031	0	0.18530E-07	545565.2	3756369.5	292.3	0.00	1.70	0.76	YES	
L0049032	0	0.18530E-07	545568.9	3756369.5	292.3	0.00	1.70	0.76	YES	
L0049033	0	0.18530E-07	545572.5	3756369.4	292.2	0.00	1.70	0.76	YES	
L0049034	0	0.18530E-07	545576.2	3756369.4	292.2	0.00	1.70	0.76	YES	
L0049035	0	0.18530E-07	545579.8	3756369.4	292.2	0.00	1.70	0.76	YES	
L0049036	0	0.18530E-07	545583.5	3756369.3	292.1	0.00	1.70	0.76	YES	
L0049037	0	0.18530E-07	545587.2	3756369.3	292.1	0.00	1.70	0.76	YES	
L0049038	0	0.18530E-07	545590.8	3756369.3	292.1	0.00	1.70	0.76	YES	
L0049039	0	0.18530E-07	545594.5	3756369.2	292.0	0.00	1.70	0.76	YES	
L0049040	0	0.18530E-07	545598.1	3756369.2	292.0	0.00	1.70	0.76	YES	
L0049041	0	0.18530E-07	545601.8	3756369.2	291.9	0.00	1.70	0.76	YES	
L0049042	0	0.18530E-07	545605.4	3756369.2	291.9	0.00	1.70	0.76	YES	
L0049043	0	0.18530E-07	545609.1	3756369.1	291.8	0.00	1.70	0.76	YES	
L0049044	0	0.18530E-07	545612.8	3756369.1	291.8	0.00	1.70	0.76	YES	
L0049045	0	0.18530E-07	545616.4	3756369.1	291.7	0.00	1.70	0.76	YES	
L0049046	0	0.18530E-07	545620.1	3756369.0	291.6	0.00	1.70	0.76	YES	
L0049047	0	0.18530E-07	545623.7	3756369.0	291.6	0.00	1.70	0.76	YES	
L0049048	0	0.18530E-07	545627.4	3756369.0	291.5	0.00	1.70	0.76	YES	
L0049049	0	0.18530E-07	545631.0	3756368.9	291.5	0.00	1.70	0.76	YES	
L0049050	0	0.18530E-07	545634.7	3756368.9	291.4	0.00	1.70	0.76	YES	
L0049051	0	0.18530E-07	545638.4	3756369.0	291.4	0.00	1.70	0.76	YES	
L0049052	0	0.18530E-07	545642.0	3756369.0	291.3	0.00	1.70	0.76	YES	
L0049053	0	0.18530E-07	545645.7	3756369.0	291.3	0.00	1.70	0.76	YES	
L0049054	0	0.18530E-07	545649.3	3756369.1	291.2	0.00	1.70	0.76	YES	
L0049055	0	0.18530E-07	545653.0	3756369.1	291.2	0.00	1.70	0.76	YES	
L0049056	0	0.18530E-07	545656.6	3756369.2	291.2	0.00	1.70	0.76	YES	
L0049057	0	0.18530E-07	545660.3	3756369.2	291.1	0.00	1.70	0.76	YES	
L0049058	0	0.18530E-07	545664.0	3756369.2	291.1	0.00	1.70	0.76	YES	
L0049059	0	0.18530E-07	545667.6	3756369.3	291.0	0.00	1.70	0.76	YES	
L0049060	0	0.18530E-07	545671.3	3756369.3	291.0	0.00	1.70	0.76	YES	
L0049061	0	0.18530E-07	545674.9	3756369.4	290.9	0.00	1.70	0.76	YES	
L0049062	0	0.18530E-07	545678.6	3756369.4	290.9	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049063	0	0.18530E-07	545682.3	3756369.5	290.8	0.00	1.70	0.76	YES	
L0049064	0	0.18530E-07	545685.9	3756369.5	290.8	0.00	1.70	0.76	YES	
L0049065	0	0.18530E-07	545689.6	3756369.5	290.7	0.00	1.70	0.76	YES	
L0049066	0	0.18530E-07	545693.2	3756369.6	290.7	0.00	1.70	0.76	YES	
L0049067	0	0.18530E-07	545696.9	3756369.6	290.6	0.00	1.70	0.76	YES	
L0049068	0	0.18530E-07	545700.5	3756369.7	290.6	0.00	1.70	0.76	YES	
L0049069	0	0.18530E-07	545704.2	3756369.7	290.5	0.00	1.70	0.76	YES	
L0049070	0	0.18530E-07	545707.9	3756369.7	290.4	0.00	1.70	0.76	YES	
L0049071	0	0.18530E-07	545711.5	3756369.8	290.4	0.00	1.70	0.76	YES	
L0049072	0	0.18530E-07	545715.2	3756369.8	290.3	0.00	1.70	0.76	YES	
L0049073	0	0.18530E-07	545718.8	3756369.9	290.2	0.00	1.70	0.76	YES	
L0049074	0	0.18530E-07	545722.5	3756369.9	290.2	0.00	1.70	0.76	YES	
L0049075	0	0.18530E-07	545726.1	3756369.9	290.1	0.00	1.70	0.76	YES	
L0049076	0	0.18530E-07	545729.8	3756370.0	290.1	0.00	1.70	0.76	YES	
L0049077	0	0.18530E-07	545733.5	3756370.0	290.0	0.00	1.70	0.76	YES	
L0049078	0	0.18530E-07	545737.1	3756370.1	290.0	0.00	1.70	0.76	YES	
L0049079	0	0.18530E-07	545740.8	3756370.1	290.0	0.00	1.70	0.76	YES	
L0049080	0	0.18530E-07	545744.4	3756370.2	289.9	0.00	1.70	0.76	YES	
L0049081	0	0.18530E-07	545748.1	3756370.2	289.9	0.00	1.70	0.76	YES	
L0049082	0	0.18530E-07	545751.7	3756370.2	289.9	0.00	1.70	0.76	YES	
L0049083	0	0.18530E-07	545755.4	3756370.3	289.8	0.00	1.70	0.76	YES	
L0049084	0	0.18530E-07	545759.1	3756370.3	289.8	0.00	1.70	0.76	YES	
L0049085	0	0.18530E-07	545762.7	3756370.4	289.7	0.00	1.70	0.76	YES	
L0049086	0	0.18530E-07	545766.4	3756370.4	289.7	0.00	1.70	0.76	YES	
L0049087	0	0.18530E-07	545770.0	3756370.4	289.6	0.00	1.70	0.76	YES	
L0049088	0	0.18530E-07	545773.7	3756370.5	289.6	0.00	1.70	0.76	YES	
L0049089	0	0.18530E-07	545777.3	3756370.5	289.5	0.00	1.70	0.76	YES	
L0049090	0	0.18530E-07	545781.0	3756370.6	289.5	0.00	1.70	0.76	YES	
L0049091	0	0.18530E-07	545784.7	3756370.6	289.4	0.00	1.70	0.76	YES	
L0049092	0	0.18530E-07	545788.3	3756370.7	289.4	0.00	1.70	0.76	YES	
L0049093	0	0.18530E-07	545792.0	3756370.7	289.4	0.00	1.70	0.76	YES	
L0049094	0	0.18530E-07	545795.6	3756370.7	289.3	0.00	1.70	0.76	YES	
L0049095	0	0.18530E-07	545799.3	3756370.8	289.2	0.00	1.70	0.76	YES	
L0049096	0	0.18530E-07	545802.9	3756370.8	289.2	0.00	1.70	0.76	YES	
L0049097	0	0.18530E-07	545806.6	3756370.9	289.2	0.00	1.70	0.76	YES	
L0049098	0	0.18530E-07	545810.3	3756370.9	289.1	0.00	1.70	0.76	YES	
L0049099	0	0.18530E-07	545813.9	3756370.9	289.1	0.00	1.70	0.76	YES	
L0049100	0	0.18530E-07	545817.6	3756371.0	289.0	0.00	1.70	0.76	YES	
L0049101	0	0.18530E-07	545821.2	3756371.0	289.0	0.00	1.70	0.76	YES	
L0049102	0	0.18530E-07	545824.9	3756371.1	289.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049103	0	0.18530E-07	545828.5	3756371.1	288.9	0.00	1.70	0.76	YES	
L0049104	0	0.18530E-07	545832.2	3756371.2	288.9	0.00	1.70	0.76	YES	
L0049105	0	0.18530E-07	545835.9	3756371.2	288.8	0.00	1.70	0.76	YES	
L0049106	0	0.18530E-07	545839.5	3756371.2	288.8	0.00	1.70	0.76	YES	
L0049107	0	0.18530E-07	545843.2	3756371.3	288.8	0.00	1.70	0.76	YES	
L0049108	0	0.18530E-07	545846.8	3756371.3	288.7	0.00	1.70	0.76	YES	
L0049109	0	0.18530E-07	545850.5	3756371.4	288.7	0.00	1.70	0.76	YES	
L0049110	0	0.18530E-07	545854.1	3756371.4	288.7	0.00	1.70	0.76	YES	
L0049111	0	0.18530E-07	545857.8	3756371.4	288.6	0.00	1.70	0.76	YES	
L0049112	0	0.18530E-07	545861.5	3756371.5	288.6	0.00	1.70	0.76	YES	
L0049113	0	0.18530E-07	545865.1	3756371.5	288.6	0.00	1.70	0.76	YES	
L0049114	0	0.18530E-07	545868.8	3756371.6	288.5	0.00	1.70	0.76	YES	
L0049115	0	0.18530E-07	545872.4	3756371.6	288.5	0.00	1.70	0.76	YES	
L0049116	0	0.18530E-07	545876.1	3756371.6	288.4	0.00	1.70	0.76	YES	
L0049117	0	0.18530E-07	545879.7	3756371.7	288.4	0.00	1.70	0.76	YES	
L0049118	0	0.18530E-07	545883.4	3756371.7	288.4	0.00	1.70	0.76	YES	
L0049119	0	0.18530E-07	545887.1	3756371.8	288.3	0.00	1.70	0.76	YES	
L0049120	0	0.18530E-07	545890.7	3756371.8	288.3	0.00	1.70	0.76	YES	
L0049121	0	0.18530E-07	545894.4	3756371.9	288.3	0.00	1.70	0.76	YES	
L0049122	0	0.18530E-07	545898.0	3756371.9	288.2	0.00	1.70	0.76	YES	
L0049123	0	0.18530E-07	545901.7	3756371.9	288.2	0.00	1.70	0.76	YES	
L0049124	0	0.18530E-07	545905.4	3756372.0	288.2	0.00	1.70	0.76	YES	
L0049125	0	0.18530E-07	545909.0	3756372.0	288.1	0.00	1.70	0.76	YES	
L0049126	0	0.18530E-07	545912.7	3756372.1	288.1	0.00	1.70	0.76	YES	
L0049127	0	0.18530E-07	545916.3	3756372.1	288.1	0.00	1.70	0.76	YES	
L0049128	0	0.18530E-07	545920.0	3756372.1	288.1	0.00	1.70	0.76	YES	
L0049129	0	0.18530E-07	545923.6	3756372.2	288.0	0.00	1.70	0.76	YES	
L0049130	0	0.18530E-07	545927.3	3756372.2	288.0	0.00	1.70	0.76	YES	
L0049131	0	0.18530E-07	545931.0	3756372.3	288.0	0.00	1.70	0.76	YES	
L0049132	0	0.18530E-07	545934.6	3756372.3	288.0	0.00	1.70	0.76	YES	
L0049133	0	0.18530E-07	545938.3	3756372.4	287.9	0.00	1.70	0.76	YES	
L0049134	0	0.18530E-07	545941.9	3756372.4	287.9	0.00	1.70	0.76	YES	
L0049135	0	0.18530E-07	545945.6	3756372.4	287.9	0.00	1.70	0.76	YES	
L0049136	0	0.18530E-07	545949.2	3756372.5	287.8	0.00	1.70	0.76	YES	
L0049137	0	0.18530E-07	545952.9	3756372.5	287.8	0.00	1.70	0.76	YES	
L0049138	0	0.18530E-07	545956.6	3756372.6	287.7	0.00	1.70	0.76	YES	
L0049139	0	0.18530E-07	545960.2	3756372.6	287.7	0.00	1.70	0.76	YES	
L0049140	0	0.18530E-07	545963.9	3756372.6	287.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049141	0	0.18530E-07	545967.5	3756372.7	287.6	0.00	1.70	0.76	YES	
L0049142	0	0.18530E-07	545971.2	3756372.7	287.6	0.00	1.70	0.76	YES	
L0049143	0	0.18530E-07	545974.8	3756372.8	287.5	0.00	1.70	0.76	YES	
L0049144	0	0.18530E-07	545978.5	3756372.8	287.5	0.00	1.70	0.76	YES	
L0049145	0	0.18530E-07	545982.2	3756372.8	287.4	0.00	1.70	0.76	YES	
L0049146	0	0.18530E-07	545985.8	3756372.9	287.4	0.00	1.70	0.76	YES	
L0049147	0	0.18530E-07	545989.5	3756372.9	287.3	0.00	1.70	0.76	YES	
L0049148	0	0.18530E-07	545993.1	3756373.0	287.2	0.00	1.70	0.76	YES	
L0049149	0	0.18530E-07	545996.8	3756373.0	287.2	0.00	1.70	0.76	YES	
L0049150	0	0.18530E-07	546000.4	3756373.1	287.1	0.00	1.70	0.76	YES	
L0049151	0	0.18530E-07	546004.1	3756373.1	287.1	0.00	1.70	0.76	YES	
L0049152	0	0.18530E-07	546007.8	3756373.1	287.0	0.00	1.70	0.76	YES	
L0049153	0	0.18530E-07	546011.4	3756373.2	286.9	0.00	1.70	0.76	YES	
L0049154	0	0.18530E-07	546015.1	3756373.2	286.9	0.00	1.70	0.76	YES	
L0049155	0	0.18530E-07	546018.7	3756373.3	286.9	0.00	1.70	0.76	YES	
L0049156	0	0.18530E-07	546022.4	3756373.3	286.8	0.00	1.70	0.76	YES	
L0049157	0	0.18530E-07	546026.0	3756373.3	286.8	0.00	1.70	0.76	YES	
L0049158	0	0.18530E-07	546029.7	3756373.4	286.7	0.00	1.70	0.76	YES	
L0049159	0	0.18530E-07	546033.4	3756373.4	286.7	0.00	1.70	0.76	YES	
L0049160	0	0.18530E-07	546037.0	3756373.5	286.6	0.00	1.70	0.76	YES	
L0049161	0	0.18530E-07	546040.7	3756373.5	286.6	0.00	1.70	0.76	YES	
L0049162	0	0.18530E-07	546044.3	3756373.6	286.5	0.00	1.70	0.76	YES	
L0049163	0	0.18530E-07	546048.0	3756373.6	286.4	0.00	1.70	0.76	YES	
L0049164	0	0.18530E-07	546051.6	3756373.6	286.4	0.00	1.70	0.76	YES	
L0049165	0	0.18530E-07	546055.3	3756373.7	286.4	0.00	1.70	0.76	YES	
L0049166	0	0.18530E-07	546059.0	3756373.7	286.3	0.00	1.70	0.76	YES	
L0049167	0	0.18530E-07	546062.6	3756373.8	286.2	0.00	1.70	0.76	YES	
L0049168	0	0.18530E-07	546066.3	3756373.8	286.2	0.00	1.70	0.76	YES	
L0049169	0	0.18530E-07	546069.9	3756373.8	286.1	0.00	1.70	0.76	YES	
L0049170	0	0.18530E-07	546073.6	3756373.9	286.1	0.00	1.70	0.76	YES	
L0049171	0	0.18530E-07	546077.2	3756373.9	286.0	0.00	1.70	0.76	YES	
L0049172	0	0.18530E-07	546080.9	3756374.0	286.0	0.00	1.70	0.76	YES	
L0049173	0	0.19760E-07	543688.4	3756370.2	307.9	0.00	1.70	0.76	YES	
L0049174	0	0.19760E-07	543688.3	3756373.9	307.9	0.00	1.70	0.76	YES	
L0049175	0	0.19760E-07	543688.3	3756377.5	308.0	0.00	1.70	0.76	YES	
L0049176	0	0.19760E-07	543688.3	3756381.2	308.1	0.00	1.70	0.76	YES	
L0049177	0	0.19760E-07	543688.2	3756384.8	308.1	0.00	1.70	0.76	YES	

L0049178	0	0.19760E-07	543688.2	3756388.5	308.2	0.00	1.70	0.76	YES	
L0049179	0	0.19760E-07	543688.1	3756392.2	308.3	0.00	1.70	0.76	YES	
L0049180	0	0.19760E-07	543688.1	3756395.8	308.4	0.00	1.70	0.76	YES	
L0049181	0	0.19760E-07	543688.1	3756399.5	308.5	0.00	1.70	0.76	YES	
L0049182	0	0.19760E-07	543688.0	3756403.1	308.6	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049183	0	0.19760E-07	543688.0	3756406.8	308.7	0.00	1.70	0.76	YES	
L0049184	0	0.19760E-07	543687.9	3756410.5	308.8	0.00	1.70	0.76	YES	
L0049185	0	0.19760E-07	543687.9	3756414.1	308.8	0.00	1.70	0.76	YES	
L0049186	0	0.19760E-07	543687.9	3756417.8	308.9	0.00	1.70	0.76	YES	
L0049187	0	0.19760E-07	543687.8	3756421.4	309.0	0.00	1.70	0.76	YES	
L0049188	0	0.19760E-07	543687.8	3756425.1	309.1	0.00	1.70	0.76	YES	
L0049189	0	0.19760E-07	543687.7	3756428.7	309.2	0.00	1.70	0.76	YES	
L0049190	0	0.19760E-07	543687.7	3756432.4	309.3	0.00	1.70	0.76	YES	
L0049191	0	0.19760E-07	543687.7	3756436.1	309.4	0.00	1.70	0.76	YES	
L0049192	0	0.19760E-07	543687.6	3756439.7	309.5	0.00	1.70	0.76	YES	
L0049193	0	0.19760E-07	543687.6	3756443.4	309.6	0.00	1.70	0.76	YES	
L0049194	0	0.19760E-07	543687.5	3756447.0	309.6	0.00	1.70	0.76	YES	
L0049195	0	0.19760E-07	543687.5	3756450.7	309.7	0.00	1.70	0.76	YES	
L0049196	0	0.19760E-07	543687.5	3756454.3	309.8	0.00	1.70	0.76	YES	
L0049197	0	0.19760E-07	543687.4	3756458.0	309.9	0.00	1.70	0.76	YES	
L0049198	0	0.19760E-07	543687.4	3756461.7	309.9	0.00	1.70	0.76	YES	
L0049199	0	0.19760E-07	543687.3	3756465.3	310.0	0.00	1.70	0.76	YES	
L0049200	0	0.19760E-07	543687.3	3756469.0	310.0	0.00	1.70	0.76	YES	
L0049201	0	0.19760E-07	543687.3	3756472.6	310.1	0.00	1.70	0.76	YES	
L0049202	0	0.19760E-07	543687.2	3756476.3	310.2	0.00	1.70	0.76	YES	
L0049203	0	0.19760E-07	543687.2	3756479.9	310.2	0.00	1.70	0.76	YES	
L0049204	0	0.19760E-07	543687.2	3756483.6	310.3	0.00	1.70	0.76	YES	
L0049205	0	0.19760E-07	543687.1	3756487.3	310.3	0.00	1.70	0.76	YES	
L0049206	0	0.19760E-07	543687.1	3756490.9	310.4	0.00	1.70	0.76	YES	
L0049207	0	0.19760E-07	543687.0	3756494.6	310.4	0.00	1.70	0.76	YES	
L0049208	0	0.19760E-07	543687.0	3756498.2	310.5	0.00	1.70	0.76	YES	
L0049209	0	0.19760E-07	543687.0	3756501.9	310.6	0.00	1.70	0.76	YES	
L0049210	0	0.19760E-07	543686.9	3756505.5	310.6	0.00	1.70	0.76	YES	
L0049211	0	0.19760E-07	543686.9	3756509.2	310.7	0.00	1.70	0.76	YES	
L0049212	0	0.19760E-07	543686.8	3756512.9	310.7	0.00	1.70	0.76	YES	
L0049213	0	0.19760E-07	543686.8	3756516.5	310.8	0.00	1.70	0.76	YES	
L0049214	0	0.19760E-07	543686.8	3756520.2	310.8	0.00	1.70	0.76	YES	

L0049215	0	0.19760E-07	543686.7	3756523.8	310.9	0.00	1.70	0.76	YES	
L0049216	0	0.19760E-07	543686.7	3756527.5	310.9	0.00	1.70	0.76	YES	
L0049217	0	0.19760E-07	543686.6	3756531.1	310.9	0.00	1.70	0.76	YES	
L0049218	0	0.19760E-07	543686.6	3756534.8	311.0	0.00	1.70	0.76	YES	
L0049219	0	0.19760E-07	543686.6	3756538.5	311.1	0.00	1.70	0.76	YES	
L0049220	0	0.19760E-07	543686.5	3756542.1	311.1	0.00	1.70	0.76	YES	
L0049221	0	0.19760E-07	543686.5	3756545.8	311.2	0.00	1.70	0.76	YES	
L0049222	0	0.19760E-07	543686.4	3756549.4	311.2	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049223	0	0.19760E-07	543686.4	3756553.1	311.2	0.00	1.70	0.76	YES	
L0049224	0	0.19760E-07	543686.4	3756556.7	311.3	0.00	1.70	0.76	YES	
L0049225	0	0.19760E-07	543686.3	3756560.4	311.4	0.00	1.70	0.76	YES	
L0049226	0	0.19760E-07	543686.3	3756564.1	311.4	0.00	1.70	0.76	YES	
L0049227	0	0.19760E-07	543686.2	3756567.7	311.4	0.00	1.70	0.76	YES	
L0049228	0	0.19760E-07	543686.2	3756571.4	311.5	0.00	1.70	0.76	YES	
L0049229	0	0.19760E-07	543686.2	3756575.0	311.6	0.00	1.70	0.76	YES	
L0049230	0	0.19760E-07	543686.1	3756578.7	311.6	0.00	1.70	0.76	YES	
L0049231	0	0.19760E-07	543686.1	3756582.3	311.7	0.00	1.70	0.76	YES	
L0049232	0	0.19760E-07	543686.0	3756586.0	311.7	0.00	1.70	0.76	YES	
L0049233	0	0.19760E-07	543686.0	3756589.7	311.8	0.00	1.70	0.76	YES	
L0049234	0	0.19760E-07	543686.0	3756593.3	311.8	0.00	1.70	0.76	YES	
L0049235	0	0.19760E-07	543685.9	3756597.0	311.9	0.00	1.70	0.76	YES	
L0049236	0	0.19760E-07	543685.9	3756600.6	311.9	0.00	1.70	0.76	YES	
L0049237	0	0.19760E-07	543685.9	3756604.3	312.0	0.00	1.70	0.76	YES	
L0049238	0	0.19760E-07	543685.8	3756607.9	312.0	0.00	1.70	0.76	YES	
L0049239	0	0.19760E-07	543685.8	3756611.6	312.1	0.00	1.70	0.76	YES	
L0049240	0	0.19760E-07	543685.7	3756615.3	312.1	0.00	1.70	0.76	YES	
L0049241	0	0.19760E-07	543685.7	3756618.9	312.2	0.00	1.70	0.76	YES	
L0049242	0	0.19760E-07	543685.7	3756622.6	312.3	0.00	1.70	0.76	YES	
L0049243	0	0.19760E-07	543685.6	3756626.2	312.3	0.00	1.70	0.76	YES	
L0049244	0	0.19760E-07	543685.6	3756629.9	312.4	0.00	1.70	0.76	YES	
L0049245	0	0.19760E-07	543685.5	3756633.6	312.4	0.00	1.70	0.76	YES	
L0049246	0	0.19760E-07	543685.5	3756637.2	312.5	0.00	1.70	0.76	YES	
L0049247	0	0.19760E-07	543685.5	3756640.9	312.6	0.00	1.70	0.76	YES	
L0049248	0	0.19760E-07	543685.4	3756644.5	312.6	0.00	1.70	0.76	YES	
L0049249	0	0.19760E-07	543685.4	3756648.2	312.7	0.00	1.70	0.76	YES	
L0049250	0	0.19760E-07	543685.3	3756651.8	312.8	0.00	1.70	0.76	YES	
L0049251	0	0.19760E-07	543685.3	3756655.5	312.8	0.00	1.70	0.76	YES	

L0049252	0	0.19760E-07	543685.3	3756659.2	312.9	0.00	1.70	0.76	YES	
L0049253	0	0.19760E-07	543685.2	3756662.8	312.9	0.00	1.70	0.76	YES	
L0049254	0	0.19760E-07	543685.2	3756666.5	313.0	0.00	1.70	0.76	YES	
L0049255	0	0.19760E-07	543685.1	3756670.1	313.1	0.00	1.70	0.76	YES	
L0049256	0	0.19760E-07	543685.1	3756673.8	313.2	0.00	1.70	0.76	YES	
L0049257	0	0.19760E-07	543685.1	3756677.4	313.2	0.00	1.70	0.76	YES	
L0049258	0	0.19760E-07	543685.0	3756681.1	313.3	0.00	1.70	0.76	YES	
L0049259	0	0.19760E-07	543685.0	3756684.8	313.4	0.00	1.70	0.76	YES	
L0049260	0	0.19760E-07	543684.9	3756688.4	313.5	0.00	1.70	0.76	YES	
L0049261	0	0.19760E-07	543684.9	3756692.1	313.5	0.00	1.70	0.76	YES	
L0049262	0	0.19760E-07	543684.9	3756695.7	313.6	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049263	0	0.19760E-07	543684.8	3756699.4	313.7	0.00	1.70	0.76	YES	
L0049264	0	0.19760E-07	543684.8	3756703.0	313.8	0.00	1.70	0.76	YES	
L0049265	0	0.19760E-07	543684.7	3756706.7	313.8	0.00	1.70	0.76	YES	
L0049266	0	0.19760E-07	543684.7	3756710.4	313.9	0.00	1.70	0.76	YES	
L0049267	0	0.19760E-07	543684.7	3756714.0	314.0	0.00	1.70	0.76	YES	
L0049268	0	0.19760E-07	543684.6	3756717.7	314.1	0.00	1.70	0.76	YES	
L0049269	0	0.19760E-07	543684.6	3756721.3	314.2	0.00	1.70	0.76	YES	
L0049270	0	0.19760E-07	543684.5	3756725.0	314.2	0.00	1.70	0.76	YES	
L0049271	0	0.19760E-07	543684.5	3756728.6	314.3	0.00	1.70	0.76	YES	
L0049272	0	0.19760E-07	543684.5	3756732.3	314.4	0.00	1.70	0.76	YES	
L0049273	0	0.19760E-07	543684.4	3756736.0	314.5	0.00	1.70	0.76	YES	
L0049274	0	0.19760E-07	543684.4	3756739.6	314.5	0.00	1.70	0.76	YES	
L0049275	0	0.19760E-07	543684.4	3756743.3	314.6	0.00	1.70	0.76	YES	
L0049276	0	0.19760E-07	543684.3	3756746.9	314.7	0.00	1.70	0.76	YES	
L0049277	0	0.19760E-07	543684.3	3756750.6	314.8	0.00	1.70	0.76	YES	
L0049278	0	0.19760E-07	543684.2	3756754.2	314.9	0.00	1.70	0.76	YES	
L0049279	0	0.19760E-07	543684.2	3756757.9	314.9	0.00	1.70	0.76	YES	
L0049280	0	0.19760E-07	543684.2	3756761.6	315.0	0.00	1.70	0.76	YES	
L0049281	0	0.19760E-07	543684.1	3756765.2	315.1	0.00	1.70	0.76	YES	
L0049282	0	0.19760E-07	543684.1	3756768.9	315.2	0.00	1.70	0.76	YES	
L0049283	0	0.19760E-07	543684.0	3756772.5	315.2	0.00	1.70	0.76	YES	
L0049284	0	0.19760E-07	543684.0	3756776.2	315.3	0.00	1.70	0.76	YES	
L0049285	0	0.19760E-07	543684.0	3756779.8	315.4	0.00	1.70	0.76	YES	
L0049286	0	0.19760E-07	543683.9	3756783.5	315.4	0.00	1.70	0.76	YES	
L0049287	0	0.19760E-07	543683.9	3756787.2	315.5	0.00	1.70	0.76	YES	
L0049288	0	0.19760E-07	543683.8	3756790.8	315.6	0.00	1.70	0.76	YES	

L0049289	0	0.19760E-07	543683.8	3756794.5	315.7	0.00	1.70	0.76	YES	
L0049290	0	0.19760E-07	543683.8	3756798.1	315.7	0.00	1.70	0.76	YES	
L0049291	0	0.19760E-07	543683.7	3756801.8	315.8	0.00	1.70	0.76	YES	
L0049292	0	0.19760E-07	543683.7	3756805.4	315.9	0.00	1.70	0.76	YES	
L0049293	0	0.19760E-07	543683.6	3756809.1	315.9	0.00	1.70	0.76	YES	
L0049294	0	0.19760E-07	543683.6	3756812.8	316.0	0.00	1.70	0.76	YES	
L0049295	0	0.19760E-07	543683.6	3756816.4	316.1	0.00	1.70	0.76	YES	
L0049296	0	0.19760E-07	543683.5	3756820.1	316.1	0.00	1.70	0.76	YES	
L0049297	0	0.19760E-07	543683.5	3756823.7	316.2	0.00	1.70	0.76	YES	
L0049298	0	0.19760E-07	543683.4	3756827.4	316.3	0.00	1.70	0.76	YES	
L0049299	0	0.19760E-07	543683.4	3756831.1	316.3	0.00	1.70	0.76	YES	
L0049300	0	0.19760E-07	543683.4	3756834.7	316.4	0.00	1.70	0.76	YES	
L0049301	0	0.19760E-07	543683.3	3756838.4	316.4	0.00	1.70	0.76	YES	
L0049302	0	0.19760E-07	543683.3	3756842.0	316.5	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049303	0	0.19760E-07	543683.2	3756845.7	316.6	0.00	1.70	0.76	YES	
L0049304	0	0.19760E-07	543683.2	3756849.3	316.6	0.00	1.70	0.76	YES	
L0049305	0	0.19760E-07	543683.2	3756853.0	316.7	0.00	1.70	0.76	YES	
L0049306	0	0.19760E-07	543683.1	3756856.7	316.8	0.00	1.70	0.76	YES	
L0049307	0	0.19760E-07	543683.1	3756860.3	316.8	0.00	1.70	0.76	YES	
L0049308	0	0.19760E-07	543683.1	3756864.0	316.9	0.00	1.70	0.76	YES	
L0049309	0	0.19760E-07	543683.0	3756867.6	317.0	0.00	1.70	0.76	YES	
L0049310	0	0.19760E-07	543683.0	3756871.3	317.0	0.00	1.70	0.76	YES	
L0049311	0	0.19760E-07	543682.9	3756874.9	317.1	0.00	1.70	0.76	YES	
L0049312	0	0.19760E-07	543682.9	3756878.6	317.2	0.00	1.70	0.76	YES	
L0049313	0	0.19760E-07	543682.9	3756882.3	317.2	0.00	1.70	0.76	YES	
L0049314	0	0.19760E-07	543682.8	3756885.9	317.3	0.00	1.70	0.76	YES	
L0049315	0	0.19760E-07	543682.8	3756889.6	317.4	0.00	1.70	0.76	YES	
L0049316	0	0.19760E-07	543682.7	3756893.2	317.4	0.00	1.70	0.76	YES	
L0049317	0	0.19760E-07	543682.7	3756896.9	317.5	0.00	1.70	0.76	YES	
L0049318	0	0.19760E-07	543682.7	3756900.5	317.6	0.00	1.70	0.76	YES	
L0049319	0	0.19760E-07	543682.6	3756904.2	317.7	0.00	1.70	0.76	YES	
L0049320	0	0.19760E-07	543682.6	3756907.9	317.7	0.00	1.70	0.76	YES	
L0049321	0	0.19760E-07	543682.5	3756911.5	317.8	0.00	1.70	0.76	YES	
L0049322	0	0.19760E-07	543682.5	3756915.2	317.9	0.00	1.70	0.76	YES	
L0049323	0	0.19760E-07	543682.5	3756918.8	317.9	0.00	1.70	0.76	YES	
L0049324	0	0.19760E-07	543682.4	3756922.5	318.0	0.00	1.70	0.76	YES	
L0049325	0	0.19760E-07	543682.4	3756926.1	318.1	0.00	1.70	0.76	YES	

L0049326	0	0.19760E-07	543682.3	3756929.8	318.2	0.00	1.70	0.76	YES	
L0049327	0	0.19760E-07	543682.3	3756933.5	318.2	0.00	1.70	0.76	YES	
L0049328	0	0.19760E-07	543682.3	3756937.1	318.3	0.00	1.70	0.76	YES	
L0049329	0	0.19760E-07	543682.2	3756940.8	318.4	0.00	1.70	0.76	YES	
L0049330	0	0.19760E-07	543682.2	3756944.4	318.5	0.00	1.70	0.76	YES	
L0049331	0	0.19760E-07	543682.1	3756948.1	318.6	0.00	1.70	0.76	YES	
L0049332	0	0.19760E-07	543682.1	3756951.7	318.6	0.00	1.70	0.76	YES	
L0049333	0	0.19760E-07	543682.1	3756955.4	318.7	0.00	1.70	0.76	YES	
L0049334	0	0.19760E-07	543682.0	3756959.1	318.8	0.00	1.70	0.76	YES	
L0049335	0	0.19760E-07	543682.0	3756962.7	318.9	0.00	1.70	0.76	YES	
L0049336	0	0.19760E-07	543681.9	3756966.4	318.9	0.00	1.70	0.76	YES	
L0049337	0	0.19760E-07	543681.9	3756970.0	319.0	0.00	1.70	0.76	YES	
L0049338	0	0.19760E-07	543681.9	3756973.7	319.1	0.00	1.70	0.76	YES	
L0049339	0	0.19760E-07	543681.8	3756977.3	319.2	0.00	1.70	0.76	YES	
L0049340	0	0.19760E-07	543681.8	3756981.0	319.2	0.00	1.70	0.76	YES	
L0049341	0	0.19760E-07	543681.7	3756984.7	319.3	0.00	1.70	0.76	YES	
L0049342	0	0.19760E-07	543681.7	3756988.3	319.4	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049343	0	0.19760E-07	543681.7	3756992.0	319.5	0.00	1.70	0.76	YES	
L0049344	0	0.19760E-07	543681.6	3756995.6	319.6	0.00	1.70	0.76	YES	
L0049345	0	0.19760E-07	543681.6	3756999.3	319.6	0.00	1.70	0.76	YES	
L0049346	0	0.19760E-07	543681.6	3757002.9	319.7	0.00	1.70	0.76	YES	
L0049347	0	0.19760E-07	543681.5	3757006.6	319.8	0.00	1.70	0.76	YES	
L0049348	0	0.19760E-07	543681.5	3757010.3	319.9	0.00	1.70	0.76	YES	
L0049349	0	0.19760E-07	543681.4	3757013.9	319.9	0.00	1.70	0.76	YES	
L0049350	0	0.19760E-07	543681.4	3757017.6	320.0	0.00	1.70	0.76	YES	
L0049351	0	0.19760E-07	543681.4	3757021.2	320.1	0.00	1.70	0.76	YES	
L0049352	0	0.19760E-07	543681.3	3757024.9	320.2	0.00	1.70	0.76	YES	
L0049353	0	0.19760E-07	543681.3	3757028.5	320.2	0.00	1.70	0.76	YES	
L0049354	0	0.19760E-07	543681.2	3757032.2	320.3	0.00	1.70	0.76	YES	
L0049355	0	0.19760E-07	543681.2	3757035.9	320.4	0.00	1.70	0.76	YES	
L0049356	0	0.19760E-07	543681.2	3757039.5	320.5	0.00	1.70	0.76	YES	
L0049357	0	0.19760E-07	543681.1	3757043.2	320.6	0.00	1.70	0.76	YES	
L0049358	0	0.19760E-07	543681.1	3757046.8	320.7	0.00	1.70	0.76	YES	
L0049359	0	0.19760E-07	543681.0	3757050.5	320.8	0.00	1.70	0.76	YES	
L0049360	0	0.19760E-07	543681.0	3757054.2	320.9	0.00	1.70	0.76	YES	
L0049361	0	0.19760E-07	543681.0	3757057.8	321.0	0.00	1.70	0.76	YES	
L0049362	0	0.19760E-07	543680.9	3757061.5	321.1	0.00	1.70	0.76	YES	

L0049363	0	0.19760E-07	543680.9	3757065.1	321.2	0.00	1.70	0.76	YES	
L0049364	0	0.19760E-07	543680.8	3757068.8	321.3	0.00	1.70	0.76	YES	
L0049365	0	0.19760E-07	543680.8	3757072.4	321.4	0.00	1.70	0.76	YES	
L0049366	0	0.19760E-07	543680.8	3757076.1	321.5	0.00	1.70	0.76	YES	
L0049367	0	0.19760E-07	543680.7	3757079.8	321.6	0.00	1.70	0.76	YES	
L0049368	0	0.19760E-07	543680.7	3757083.4	321.7	0.00	1.70	0.76	YES	
L0049369	0	0.19760E-07	543680.6	3757087.1	321.8	0.00	1.70	0.76	YES	
L0049370	0	0.19760E-07	543680.6	3757090.7	321.9	0.00	1.70	0.76	YES	
L0049371	0	0.19760E-07	543680.6	3757094.4	322.0	0.00	1.70	0.76	YES	
L0049372	0	0.19760E-07	543680.5	3757098.0	322.1	0.00	1.70	0.76	YES	
L0049373	0	0.19760E-07	543680.5	3757101.7	322.2	0.00	1.70	0.76	YES	
L0049374	0	0.19760E-07	543680.4	3757105.4	322.3	0.00	1.70	0.76	YES	
L0049375	0	0.19760E-07	543680.4	3757109.0	322.4	0.00	1.70	0.76	YES	
L0049376	0	0.19760E-07	543680.4	3757112.7	322.4	0.00	1.70	0.76	YES	
L0049377	0	0.19760E-07	543680.3	3757116.3	322.6	0.00	1.70	0.76	YES	
L0049378	0	0.19760E-07	543680.3	3757120.0	322.7	0.00	1.70	0.76	YES	
L0049379	0	0.19760E-07	543680.2	3757123.6	322.7	0.00	1.70	0.76	YES	
L0049380	0	0.19760E-07	543680.2	3757127.3	322.8	0.00	1.70	0.76	YES	
L0049381	0	0.19760E-07	543680.2	3757131.0	322.9	0.00	1.70	0.76	YES	
L0049382	0	0.19760E-07	543680.1	3757134.6	323.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049383	0	0.19760E-07	543680.1	3757138.3	323.1	0.00	1.70	0.76	YES	
L0049384	0	0.19760E-07	543680.1	3757141.9	323.2	0.00	1.70	0.76	YES	
L0049385	0	0.19760E-07	543680.0	3757145.6	323.2	0.00	1.70	0.76	YES	
L0049386	0	0.19760E-07	543680.0	3757149.2	323.3	0.00	1.70	0.76	YES	
L0049387	0	0.19760E-07	543679.9	3757152.9	323.4	0.00	1.70	0.76	YES	
L0049388	0	0.19760E-07	543679.9	3757156.6	323.5	0.00	1.70	0.76	YES	
L0049389	0	0.19760E-07	543679.9	3757160.2	323.5	0.00	1.70	0.76	YES	
L0049390	0	0.19760E-07	543679.8	3757163.9	323.6	0.00	1.70	0.76	YES	
L0049391	0	0.19760E-07	543679.8	3757167.5	323.7	0.00	1.70	0.76	YES	
L0049392	0	0.19760E-07	543679.7	3757171.2	323.8	0.00	1.70	0.76	YES	
L0049393	0	0.19760E-07	543679.7	3757174.8	323.8	0.00	1.70	0.76	YES	
L0049394	0	0.19760E-07	543679.7	3757178.5	323.9	0.00	1.70	0.76	YES	
L0049395	0	0.19760E-07	543679.6	3757182.2	323.9	0.00	1.70	0.76	YES	
L0049396	0	0.19760E-07	543679.6	3757185.8	324.0	0.00	1.70	0.76	YES	
L0049397	0	0.19760E-07	543679.5	3757189.5	324.1	0.00	1.70	0.76	YES	
L0049398	0	0.19760E-07	543679.5	3757193.1	324.2	0.00	1.70	0.76	YES	
L0049399	0	0.19760E-07	543679.5	3757196.8	324.2	0.00	1.70	0.76	YES	

L0049400	0	0.19760E-07	543679.4	3757200.4	324.3	0.00	1.70	0.76	YES	
L0049401	0	0.19760E-07	543679.4	3757204.1	324.3	0.00	1.70	0.76	YES	
L0049402	0	0.19760E-07	543679.3	3757207.8	324.4	0.00	1.70	0.76	YES	
L0049403	0	0.19760E-07	543679.3	3757211.4	324.4	0.00	1.70	0.76	YES	
L0049404	0	0.19760E-07	543679.3	3757215.1	324.5	0.00	1.70	0.76	YES	
L0049405	0	0.19760E-07	543679.2	3757218.7	324.6	0.00	1.70	0.76	YES	
L0049406	0	0.19760E-07	543679.2	3757222.4	324.6	0.00	1.70	0.76	YES	
L0049407	0	0.19760E-07	543679.1	3757226.0	324.7	0.00	1.70	0.76	YES	
L0049408	0	0.19760E-07	543679.1	3757229.7	324.8	0.00	1.70	0.76	YES	
L0049409	0	0.19760E-07	543679.1	3757233.4	324.8	0.00	1.70	0.76	YES	
L0049410	0	0.19760E-07	543679.0	3757237.0	324.9	0.00	1.70	0.76	YES	
L0049411	0	0.19760E-07	543679.0	3757240.7	325.0	0.00	1.70	0.76	YES	
L0049412	0	0.19760E-07	543678.9	3757244.3	325.0	0.00	1.70	0.76	YES	
L0049413	0	0.19760E-07	543678.9	3757248.0	325.1	0.00	1.70	0.76	YES	
L0049414	0	0.19760E-07	543678.9	3757251.6	325.2	0.00	1.70	0.76	YES	
L0049415	0	0.19760E-07	543678.8	3757255.3	325.2	0.00	1.70	0.76	YES	
L0049416	0	0.19760E-07	543678.8	3757259.0	325.3	0.00	1.70	0.76	YES	
L0049417	0	0.19760E-07	543678.8	3757262.6	325.4	0.00	1.70	0.76	YES	
L0049418	0	0.37120E-07	543676.1	3753932.2	262.4	0.00	1.70	0.76	YES	
L0049419	0	0.37120E-07	543679.7	3753932.2	262.4	0.00	1.70	0.76	YES	
L0049420	0	0.37120E-07	543683.4	3753932.2	262.4	0.00	1.70	0.76	YES	
L0049421	0	0.37120E-07	543687.0	3753932.2	262.4	0.00	1.70	0.76	YES	
L0049422	0	0.37120E-07	543690.7	3753932.3	262.4	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049423	0	0.37120E-07	543694.3	3753932.3	262.4	0.00	1.70	0.76	YES	
L0049424	0	0.37120E-07	543698.0	3753932.3	262.4	0.00	1.70	0.76	YES	
L0049425	0	0.37120E-07	543701.7	3753932.3	262.4	0.00	1.70	0.76	YES	
L0049426	0	0.37120E-07	543705.3	3753932.3	262.4	0.00	1.70	0.76	YES	
L0049427	0	0.37120E-07	543709.0	3753932.3	262.4	0.00	1.70	0.76	YES	
L0049428	0	0.37120E-07	543712.6	3753932.3	262.3	0.00	1.70	0.76	YES	
L0049429	0	0.37120E-07	543716.3	3753932.3	262.3	0.00	1.70	0.76	YES	
L0049430	0	0.37120E-07	543719.9	3753932.3	262.3	0.00	1.70	0.76	YES	
L0049431	0	0.37120E-07	543723.6	3753932.4	262.3	0.00	1.70	0.76	YES	
L0049432	0	0.37120E-07	543727.3	3753932.4	262.3	0.00	1.70	0.76	YES	
L0049433	0	0.37120E-07	543730.9	3753932.4	262.3	0.00	1.70	0.76	YES	
L0049434	0	0.37120E-07	543734.6	3753932.4	262.3	0.00	1.70	0.76	YES	
L0049435	0	0.37120E-07	543738.2	3753932.4	262.3	0.00	1.70	0.76	YES	
L0049436	0	0.37120E-07	543741.9	3753932.4	262.3	0.00	1.70	0.76	YES	

L0049437	0	0.37120E-07	543745.5	3753932.4	262.2	0.00	1.70	0.76	YES	
L0049438	0	0.37120E-07	543749.2	3753932.4	262.2	0.00	1.70	0.76	YES	
L0049439	0	0.37120E-07	543752.9	3753932.4	262.2	0.00	1.70	0.76	YES	
L0049440	0	0.37120E-07	543756.5	3753932.5	262.2	0.00	1.70	0.76	YES	
L0049441	0	0.37120E-07	543760.2	3753932.5	262.2	0.00	1.70	0.76	YES	
L0049442	0	0.37120E-07	543763.8	3753932.5	262.2	0.00	1.70	0.76	YES	
L0049443	0	0.37120E-07	543767.5	3753932.5	262.2	0.00	1.70	0.76	YES	
L0049444	0	0.37120E-07	543771.2	3753932.5	262.2	0.00	1.70	0.76	YES	
L0049445	0	0.37120E-07	543774.8	3753932.5	262.2	0.00	1.70	0.76	YES	
L0049446	0	0.37120E-07	543778.5	3753932.5	262.2	0.00	1.70	0.76	YES	
L0049447	0	0.37120E-07	543782.1	3753932.5	262.2	0.00	1.70	0.76	YES	
L0049448	0	0.37120E-07	543785.8	3753932.5	262.1	0.00	1.70	0.76	YES	
L0049449	0	0.37120E-07	543789.4	3753932.5	262.1	0.00	1.70	0.76	YES	
L0049450	0	0.37120E-07	543793.1	3753932.6	262.1	0.00	1.70	0.76	YES	
L0049451	0	0.37120E-07	543796.8	3753932.6	262.1	0.00	1.70	0.76	YES	
L0049452	0	0.37120E-07	543800.4	3753932.6	262.1	0.00	1.70	0.76	YES	
L0049453	0	0.37120E-07	543804.1	3753932.6	262.1	0.00	1.70	0.76	YES	
L0049454	0	0.37120E-07	543807.7	3753932.6	262.0	0.00	1.70	0.76	YES	
L0049455	0	0.37120E-07	543811.4	3753932.6	262.0	0.00	1.70	0.76	YES	
L0049456	0	0.37120E-07	543815.0	3753932.6	262.0	0.00	1.70	0.76	YES	
L0049457	0	0.37120E-07	543818.7	3753932.6	262.0	0.00	1.70	0.76	YES	
L0049458	0	0.37120E-07	543822.4	3753932.6	262.0	0.00	1.70	0.76	YES	
L0049459	0	0.37120E-07	543826.0	3753932.7	262.0	0.00	1.70	0.76	YES	
L0049460	0	0.37120E-07	543829.7	3753932.7	262.0	0.00	1.70	0.76	YES	
L0049461	0	0.37120E-07	543833.3	3753932.7	261.9	0.00	1.70	0.76	YES	
L0049462	0	0.37120E-07	543837.0	3753932.7	261.9	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049463	0	0.37120E-07	543840.6	3753932.7	261.9	0.00	1.70	0.76	YES	
L0049464	0	0.37120E-07	543844.3	3753932.7	261.9	0.00	1.70	0.76	YES	
L0049465	0	0.37120E-07	543848.0	3753932.7	261.9	0.00	1.70	0.76	YES	
L0049466	0	0.37120E-07	543851.6	3753932.7	261.9	0.00	1.70	0.76	YES	
L0049467	0	0.37120E-07	543855.3	3753932.7	261.9	0.00	1.70	0.76	YES	
L0049468	0	0.37120E-07	543858.9	3753932.8	261.8	0.00	1.70	0.76	YES	
L0049469	0	0.37120E-07	543862.6	3753932.8	261.8	0.00	1.70	0.76	YES	
L0049470	0	0.37120E-07	543866.2	3753932.8	261.8	0.00	1.70	0.76	YES	
L0049471	0	0.37120E-07	543869.9	3753932.8	261.8	0.00	1.70	0.76	YES	
L0049472	0	0.37120E-07	543873.6	3753932.8	261.7	0.00	1.70	0.76	YES	
L0049473	0	0.37120E-07	543877.2	3753932.8	261.7	0.00	1.70	0.76	YES	

L0049474	0	0.37120E-07	543880.9	3753932.8	261.7	0.00	1.70	0.76	YES	
L0049475	0	0.37120E-07	543884.5	3753932.8	261.7	0.00	1.70	0.76	YES	
L0049476	0	0.37120E-07	543888.2	3753932.8	261.6	0.00	1.70	0.76	YES	
L0049477	0	0.37120E-07	543891.9	3753932.9	261.6	0.00	1.70	0.76	YES	
L0049478	0	0.37120E-07	543895.5	3753932.9	261.6	0.00	1.70	0.76	YES	
L0049479	0	0.37120E-07	543899.2	3753932.9	261.6	0.00	1.70	0.76	YES	
L0049480	0	0.37120E-07	543902.8	3753932.9	261.5	0.00	1.70	0.76	YES	
L0049481	0	0.37120E-07	543906.5	3753932.9	261.5	0.00	1.70	0.76	YES	
L0049482	0	0.37120E-07	543910.1	3753932.9	261.5	0.00	1.70	0.76	YES	
L0049483	0	0.37120E-07	543913.8	3753932.9	261.4	0.00	1.70	0.76	YES	
L0049484	0	0.37120E-07	543917.5	3753932.9	261.4	0.00	1.70	0.76	YES	
L0049485	0	0.37120E-07	543921.1	3753932.9	261.4	0.00	1.70	0.76	YES	
L0049486	0	0.37120E-07	543924.8	3753932.9	261.4	0.00	1.70	0.76	YES	
L0049487	0	0.37120E-07	543928.4	3753933.0	261.4	0.00	1.70	0.76	YES	
L0049488	0	0.37120E-07	543932.1	3753933.0	261.4	0.00	1.70	0.76	YES	
L0049489	0	0.37120E-07	543935.7	3753933.0	261.3	0.00	1.70	0.76	YES	
L0049490	0	0.37120E-07	543939.4	3753933.0	261.3	0.00	1.70	0.76	YES	
L0049491	0	0.37120E-07	543943.1	3753933.0	261.3	0.00	1.70	0.76	YES	
L0049492	0	0.37120E-07	543946.7	3753933.0	261.3	0.00	1.70	0.76	YES	
L0049493	0	0.37120E-07	543950.4	3753933.0	261.2	0.00	1.70	0.76	YES	
L0049494	0	0.37120E-07	543954.0	3753933.0	261.2	0.00	1.70	0.76	YES	
L0049495	0	0.37120E-07	543957.7	3753933.0	261.2	0.00	1.70	0.76	YES	
L0049496	0	0.37120E-07	543961.3	3753933.1	261.1	0.00	1.70	0.76	YES	
L0049497	0	0.37120E-07	543965.0	3753933.1	261.1	0.00	1.70	0.76	YES	
L0049498	0	0.37120E-07	543968.7	3753933.1	261.1	0.00	1.70	0.76	YES	
L0049499	0	0.37120E-07	543972.3	3753933.1	261.0	0.00	1.70	0.76	YES	
L0049500	0	0.37120E-07	543976.0	3753933.1	261.0	0.00	1.70	0.76	YES	
L0049501	0	0.37120E-07	543979.6	3753933.1	261.0	0.00	1.70	0.76	YES	
L0049502	0	0.37120E-07	543983.3	3753933.1	261.0	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049503	0	0.37120E-07	543986.9	3753933.1	261.0	0.00	1.70	0.76	YES	
L0049504	0	0.37120E-07	543990.6	3753933.1	261.0	0.00	1.70	0.76	YES	
L0049505	0	0.37120E-07	543994.3	3753933.2	261.0	0.00	1.70	0.76	YES	
L0049506	0	0.37120E-07	543997.9	3753933.2	261.0	0.00	1.70	0.76	YES	
L0049507	0	0.37120E-07	544001.6	3753933.2	261.0	0.00	1.70	0.76	YES	
L0049508	0	0.37120E-07	544005.2	3753933.2	260.9	0.00	1.70	0.76	YES	
L0049509	0	0.37120E-07	544008.9	3753933.2	260.9	0.00	1.70	0.76	YES	
L0049510	0	0.37120E-07	544012.6	3753933.2	260.9	0.00	1.70	0.76	YES	

L0049511	0	0.37120E-07	544016.2	3753933.2	260.8	0.00	1.70	0.76	YES
L0049512	0	0.37120E-07	544019.9	3753933.2	260.8	0.00	1.70	0.76	YES
L0049513	0	0.37120E-07	544023.5	3753933.2	260.8	0.00	1.70	0.76	YES
L0049514	0	0.37120E-07	544027.2	3753933.3	260.8	0.00	1.70	0.76	YES
L0049515	0	0.37120E-07	544030.8	3753933.3	260.8	0.00	1.70	0.76	YES
L0049516	0	0.37120E-07	544034.5	3753933.3	260.7	0.00	1.70	0.76	YES
L0049517	0	0.37120E-07	544038.2	3753933.3	260.7	0.00	1.70	0.76	YES
L0049518	0	0.37120E-07	544041.8	3753933.3	260.7	0.00	1.70	0.76	YES
L0049519	0	0.37120E-07	544045.5	3753933.3	260.7	0.00	1.70	0.76	YES
L0049520	0	0.37120E-07	544049.1	3753933.3	260.7	0.00	1.70	0.76	YES
L0049521	0	0.37120E-07	544052.8	3753933.3	260.7	0.00	1.70	0.76	YES
L0049522	0	0.37120E-07	544056.4	3753933.3	260.7	0.00	1.70	0.76	YES
L0049523	0	0.37120E-07	544060.1	3753933.3	260.7	0.00	1.70	0.76	YES
L0049524	0	0.37120E-07	544063.8	3753933.4	260.7	0.00	1.70	0.76	YES
L0049525	0	0.37120E-07	544067.4	3753933.4	260.7	0.00	1.70	0.76	YES
L0049526	0	0.37120E-07	544071.1	3753933.4	260.7	0.00	1.70	0.76	YES
L0049527	0	0.37120E-07	544074.7	3753933.4	260.7	0.00	1.70	0.76	YES
L0049528	0	0.37120E-07	544078.4	3753933.4	260.7	0.00	1.70	0.76	YES
L0049529	0	0.37120E-07	544082.0	3753933.4	260.7	0.00	1.70	0.76	YES
L0049530	0	0.37120E-07	544085.7	3753933.4	260.7	0.00	1.70	0.76	YES
L0049531	0	0.37120E-07	544089.4	3753933.4	260.7	0.00	1.70	0.76	YES
L0049532	0	0.37120E-07	544093.0	3753933.4	260.7	0.00	1.70	0.76	YES
L0049533	0	0.37120E-07	544096.7	3753933.5	260.7	0.00	1.70	0.76	YES
L0049534	0	0.37120E-07	544100.3	3753933.5	260.6	0.00	1.70	0.76	YES
L0049535	0	0.37120E-07	544104.0	3753933.5	260.6	0.00	1.70	0.76	YES
L0049536	0	0.37120E-07	544107.6	3753933.5	260.6	0.00	1.70	0.76	YES
L0049537	0	0.37120E-07	544111.3	3753933.5	260.5	0.00	1.70	0.76	YES
L0049538	0	0.37120E-07	544115.0	3753933.5	260.5	0.00	1.70	0.76	YES
L0049539	0	0.37120E-07	544118.6	3753933.5	260.5	0.00	1.70	0.76	YES
L0049540	0	0.37120E-07	544122.3	3753933.5	260.4	0.00	1.70	0.76	YES
L0049541	0	0.37120E-07	544125.9	3753933.5	260.5	0.00	1.70	0.76	YES
L0049542	0	0.37120E-07	544129.6	3753933.6	260.5	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049543	0	0.37120E-07	544133.3	3753933.6	260.5	0.00	1.70	0.76	YES	
L0049544	0	0.37120E-07	544136.9	3753933.6	260.5	0.00	1.70	0.76	YES	
L0049545	0	0.37120E-07	544140.6	3753933.6	260.5	0.00	1.70	0.76	YES	
L0049546	0	0.37120E-07	544144.2	3753933.6	260.5	0.00	1.70	0.76	YES	
L0049547	0	0.37120E-07	544147.9	3753933.6	260.5	0.00	1.70	0.76	YES	

L0049548	0	0.37120E-07	544151.5	3753933.6	260.5	0.00	1.70	0.76	YES	
L0049549	0	0.37120E-07	544155.2	3753933.6	260.5	0.00	1.70	0.76	YES	
L0049550	0	0.37120E-07	544158.9	3753933.6	260.4	0.00	1.70	0.76	YES	
L0049551	0	0.37120E-07	544162.5	3753933.7	260.4	0.00	1.70	0.76	YES	
L0049552	0	0.37120E-07	544166.2	3753933.7	260.4	0.00	1.70	0.76	YES	
L0049553	0	0.37120E-07	544169.8	3753933.7	260.4	0.00	1.70	0.76	YES	
L0049554	0	0.37120E-07	544173.5	3753933.7	260.4	0.00	1.70	0.76	YES	
L0049555	0	0.37120E-07	544177.1	3753933.7	260.4	0.00	1.70	0.76	YES	
L0049556	0	0.37120E-07	544180.8	3753933.7	260.4	0.00	1.70	0.76	YES	
L0049557	0	0.37120E-07	544184.5	3753933.7	260.4	0.00	1.70	0.76	YES	
L0049558	0	0.37120E-07	544188.1	3753933.7	260.3	0.00	1.70	0.76	YES	
L0049559	0	0.37120E-07	544191.8	3753933.7	260.3	0.00	1.70	0.76	YES	
L0049560	0	0.37120E-07	544195.4	3753933.8	260.3	0.00	1.70	0.76	YES	
L0049561	0	0.37120E-07	544199.1	3753933.8	260.3	0.00	1.70	0.76	YES	
L0049562	0	0.37120E-07	544202.7	3753933.8	260.3	0.00	1.70	0.76	YES	
L0049563	0	0.37120E-07	544206.4	3753933.8	260.3	0.00	1.70	0.76	YES	
L0049564	0	0.37120E-07	544210.1	3753933.8	260.3	0.00	1.70	0.76	YES	
L0049565	0	0.37120E-07	544213.7	3753933.8	260.3	0.00	1.70	0.76	YES	
L0049566	0	0.37120E-07	544217.4	3753933.8	260.3	0.00	1.70	0.76	YES	
L0049567	0	0.37120E-07	544221.0	3753933.8	260.3	0.00	1.70	0.76	YES	
L0049568	0	0.37120E-07	544224.7	3753933.8	260.3	0.00	1.70	0.76	YES	
L0049569	0	0.37120E-07	544228.3	3753933.8	260.3	0.00	1.70	0.76	YES	
L0049570	0	0.37120E-07	544232.0	3753933.9	260.3	0.00	1.70	0.76	YES	
L0049571	0	0.37120E-07	544235.7	3753933.9	260.3	0.00	1.70	0.76	YES	
L0049572	0	0.37120E-07	544239.3	3753933.9	260.3	0.00	1.70	0.76	YES	
L0049573	0	0.37120E-07	544243.0	3753933.9	260.2	0.00	1.70	0.76	YES	
L0049574	0	0.37120E-07	544246.6	3753933.9	260.2	0.00	1.70	0.76	YES	
L0049575	0	0.37120E-07	544250.3	3753933.9	260.2	0.00	1.70	0.76	YES	
L0049576	0	0.37120E-07	544254.0	3753933.9	260.2	0.00	1.70	0.76	YES	
L0049577	0	0.37120E-07	544257.6	3753933.9	260.2	0.00	1.70	0.76	YES	
L0049578	0	0.37120E-07	544261.3	3753933.9	260.2	0.00	1.70	0.76	YES	
L0049579	0	0.37120E-07	544264.9	3753934.0	260.2	0.00	1.70	0.76	YES	
L0049580	0	0.37120E-07	544268.6	3753934.0	260.2	0.00	1.70	0.76	YES	
L0049581	0	0.37120E-07	544272.2	3753934.0	260.2	0.00	1.70	0.76	YES	
L0049582	0	0.37120E-07	544275.9	3753934.0	260.1	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049583	0	0.37120E-07	544279.6	3753934.0	260.1	0.00	1.70	0.76	YES	
L0049584	0	0.37120E-07	544283.2	3753934.0	260.1	0.00	1.70	0.76	YES	

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L0049585         0   0.37120E-07  544286.9 3753934.0   260.1     0.00     1.70     0.76     YES
L0049586         0   0.37120E-07  544290.5 3753934.0   260.1     0.00     1.70     0.76     YES
L0049587         0   0.37120E-07  544294.2 3753934.0   260.1     0.00     1.70     0.76     YES
L0049588         0   0.37120E-07  544297.8 3753934.1   260.0     0.00     1.70     0.76     YES
L0049589         0   0.37120E-07  544301.5 3753934.1   260.0     0.00     1.70     0.76     YES
L0049590         0   0.37120E-07  544305.2 3753934.1   260.0     0.00     1.70     0.76     YES
L0049591         0   0.37120E-07  544308.8 3753934.1   260.0     0.00     1.70     0.76     YES
L0049592         0   0.37120E-07  544312.5 3753934.1   260.0     0.00     1.70     0.76     YES
L0049593         0   0.37120E-07  544316.1 3753934.1   259.9     0.00     1.70     0.76     YES
L0049594         0   0.37120E-07  544319.8 3753934.1   259.9     0.00     1.70     0.76     YES
L0049595         0   0.37120E-07  544323.4 3753934.1   259.9     0.00     1.70     0.76     YES
L0049596         0   0.37120E-07  544327.1 3753934.1   259.9     0.00     1.70     0.76     YES
L0049597         0   0.37120E-07  544330.8 3753934.2   259.9     0.00     1.70     0.76     YES
L0049598         0   0.37120E-07  544334.4 3753934.2   259.9     0.00     1.70     0.76     YES
L0049599         0   0.37120E-07  544338.1 3753934.2   259.8     0.00     1.70     0.76     YES
L0049600         0   0.37120E-07  544341.7 3753934.2   259.8     0.00     1.70     0.76     YES
L0049601         0   0.37120E-07  544345.4 3753934.2   259.8     0.00     1.70     0.76     YES
L0049602         0   0.37120E-07  544349.0 3753934.2   259.8     0.00     1.70     0.76     YES
L0049603         0   0.37120E-07  544352.7 3753934.2   259.8     0.00     1.70     0.76     YES
L0049604         0   0.37120E-07  544356.4 3753934.2   259.8     0.00     1.70     0.76     YES
L0049605         0   0.37120E-07  544360.0 3753934.2   259.8     0.00     1.70     0.76     YES
L0049606         0   0.37120E-07  544363.7 3753934.2   259.8     0.00     1.70     0.76     YES
L0049607         0   0.37120E-07  544367.3 3753934.3   259.8     0.00     1.70     0.76     YES
L0049608         0   0.37120E-07  544371.0 3753934.3   259.7     0.00     1.70     0.76     YES
L0049609         0   0.37120E-07  544374.7 3753934.3   259.7     0.00     1.70     0.76     YES
L0049610         0   0.37120E-07  544378.3 3753934.3   259.7     0.00     1.70     0.76     YES
L0049611         0   0.37120E-07  544382.0 3753934.3   259.7     0.00     1.70     0.76     YES
L0049612         0   0.37120E-07  544385.6 3753934.3   259.7     0.00     1.70     0.76     YES
L0049613         0   0.37120E-07  544389.3 3753934.3   259.7     0.00     1.70     0.76     YES
L0049614         0   0.37120E-07  544392.9 3753934.3   259.6     0.00     1.70     0.76     YES
L0049615         0   0.37120E-07  544396.6 3753934.3   259.6     0.00     1.70     0.76     YES
L0049616         0   0.37120E-07  544400.3 3753934.4   259.6     0.00     1.70     0.76     YES
L0049617         0   0.37120E-07  544403.9 3753934.4   259.6     0.00     1.70     0.76     YES
L0049618         0   0.37120E-07  544407.6 3753934.4   259.6     0.00     1.70     0.76     YES
L0049619         0   0.37120E-07  544411.2 3753934.4   259.5     0.00     1.70     0.76     YES
L0049620         0   0.37120E-07  544414.9 3753934.4   259.5     0.00     1.70     0.76     YES
L0049621         0   0.37120E-07  544418.5 3753934.4   259.5     0.00     1.70     0.76     YES
L0049622         0   0.37120E-07  544422.2 3753934.4   259.5     0.00     1.70     0.76     YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY

L0049623	0	0.37120E-07	544425.9	3753934.4	259.5	0.00	1.70	0.76	YES
L0049624	0	0.37120E-07	544429.5	3753934.4	259.4	0.00	1.70	0.76	YES
L0049625	0	0.37120E-07	544433.2	3753934.5	259.4	0.00	1.70	0.76	YES
L0049626	0	0.37120E-07	544436.8	3753934.5	259.4	0.00	1.70	0.76	YES
L0049627	0	0.37120E-07	544440.5	3753934.5	259.4	0.00	1.70	0.76	YES
L0049628	0	0.37120E-07	544444.1	3753934.5	259.4	0.00	1.70	0.76	YES
L0049629	0	0.37120E-07	544447.8	3753934.5	259.4	0.00	1.70	0.76	YES
L0049630	0	0.37120E-07	544451.5	3753934.5	259.4	0.00	1.70	0.76	YES
L0049631	0	0.37120E-07	544455.1	3753934.5	259.4	0.00	1.70	0.76	YES
L0049632	0	0.37120E-07	544458.8	3753934.5	259.4	0.00	1.70	0.76	YES
L0049633	0	0.37120E-07	544462.4	3753934.5	259.3	0.00	1.70	0.76	YES
L0049634	0	0.37120E-07	544466.1	3753934.6	259.3	0.00	1.70	0.76	YES
L0049635	0	0.37120E-07	544469.7	3753934.6	259.3	0.00	1.70	0.76	YES
L0049636	0	0.37120E-07	544473.4	3753934.6	259.3	0.00	1.70	0.76	YES
L0049637	0	0.37120E-07	544477.1	3753934.6	259.3	0.00	1.70	0.76	YES
L0049638	0	0.37120E-07	544480.7	3753934.6	259.2	0.00	1.70	0.76	YES
L0049639	0	0.37120E-07	544484.4	3753934.6	259.2	0.00	1.70	0.76	YES
L0049640	0	0.37120E-07	544488.0	3753934.6	259.2	0.00	1.70	0.76	YES
L0049641	0	0.37120E-07	544491.7	3753934.6	259.2	0.00	1.70	0.76	YES
L0049642	0	0.37120E-07	544495.4	3753934.6	259.2	0.00	1.70	0.76	YES
L0049643	0	0.37120E-07	544499.0	3753934.6	259.2	0.00	1.70	0.76	YES
L0049644	0	0.37120E-07	544502.7	3753934.7	259.2	0.00	1.70	0.76	YES
L0049645	0	0.37120E-07	544506.3	3753934.7	259.1	0.00	1.70	0.76	YES
L0049646	0	0.37120E-07	544510.0	3753934.7	259.1	0.00	1.70	0.76	YES
L0049647	0	0.37120E-07	544513.6	3753934.7	259.1	0.00	1.70	0.76	YES
L0049648	0	0.37120E-07	544517.3	3753934.7	259.1	0.00	1.70	0.76	YES
L0049649	0	0.37120E-07	544521.0	3753934.7	259.1	0.00	1.70	0.76	YES
L0049650	0	0.37120E-07	544524.6	3753934.7	259.0	0.00	1.70	0.76	YES
L0049651	0	0.37120E-07	544528.3	3753934.7	259.0	0.00	1.70	0.76	YES
L0049652	0	0.37120E-07	544531.9	3753934.7	259.0	0.00	1.70	0.76	YES
L0049653	0	0.37120E-07	544535.6	3753934.8	259.0	0.00	1.70	0.76	YES
L0049654	0	0.37120E-07	544539.2	3753934.8	259.0	0.00	1.70	0.76	YES
L0049655	0	0.37120E-07	544542.9	3753934.8	258.9	0.00	1.70	0.76	YES
L0049656	0	0.37120E-07	544546.6	3753934.8	258.9	0.00	1.70	0.76	YES
L0049657	0	0.37120E-07	544550.2	3753934.8	258.9	0.00	1.70	0.76	YES
L0049658	0	0.37120E-07	544553.9	3753934.8	258.9	0.00	1.70	0.76	YES
L0049659	0	0.37120E-07	544557.5	3753934.8	258.9	0.00	1.70	0.76	YES
L0049660	0	0.37120E-07	544561.2	3753934.8	258.9	0.00	1.70	0.76	YES
L0049661	0	0.37120E-07	544564.8	3753934.8	258.8	0.00	1.70	0.76	YES
L0049662	0	0.37120E-07	544568.5	3753934.9	258.8	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER	EMISSION RATE	BASE	RELEASE	INIT.	INIT.	URBAN	EMISSION RATE

SOURCE ID	PART. CATS.	(GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)	SOURCE	SCALAR VARY BY
L0049663	0	0.37120E-07	544572.2	3753934.9	258.8	0.00	1.70	0.76	YES	
L0049664	0	0.37120E-07	544575.8	3753934.9	258.8	0.00	1.70	0.76	YES	
L0049665	0	0.37120E-07	544579.5	3753934.9	258.8	0.00	1.70	0.76	YES	
L0049666	0	0.37120E-07	544583.1	3753934.9	258.7	0.00	1.70	0.76	YES	
L0049667	0	0.37120E-07	544586.8	3753934.9	258.7	0.00	1.70	0.76	YES	
L0049668	0	0.37120E-07	544590.4	3753934.9	258.7	0.00	1.70	0.76	YES	
L0049669	0	0.37120E-07	544594.1	3753934.9	258.7	0.00	1.70	0.76	YES	
L0049670	0	0.37120E-07	544597.8	3753934.9	258.7	0.00	1.70	0.76	YES	
L0049671	0	0.37120E-07	544601.4	3753935.0	258.7	0.00	1.70	0.76	YES	
L0049672	0	0.37120E-07	544605.1	3753935.0	258.7	0.00	1.70	0.76	YES	
L0049673	0	0.37120E-07	544608.7	3753935.0	258.7	0.00	1.70	0.76	YES	
L0049674	0	0.37120E-07	544612.4	3753935.0	258.6	0.00	1.70	0.76	YES	
L0049675	0	0.37120E-07	544616.1	3753935.0	258.6	0.00	1.70	0.76	YES	
L0049676	0	0.37120E-07	544619.7	3753935.0	258.6	0.00	1.70	0.76	YES	
L0049677	0	0.37120E-07	544623.4	3753935.0	258.6	0.00	1.70	0.76	YES	
L0049678	0	0.37120E-07	544627.0	3753935.0	258.6	0.00	1.70	0.76	YES	
L0049679	0	0.37120E-07	544630.7	3753935.0	258.6	0.00	1.70	0.76	YES	
L0049680	0	0.37120E-07	544634.3	3753935.1	258.5	0.00	1.70	0.76	YES	
L0049681	0	0.37120E-07	544638.0	3753935.1	258.5	0.00	1.70	0.76	YES	
L0049682	0	0.37120E-07	544641.7	3753935.1	258.5	0.00	1.70	0.76	YES	
L0049683	0	0.37120E-07	544645.3	3753935.1	258.5	0.00	1.70	0.76	YES	
L0049684	0	0.37120E-07	544649.0	3753935.1	258.5	0.00	1.70	0.76	YES	
L0049685	0	0.37120E-07	544652.6	3753935.1	258.5	0.00	1.70	0.76	YES	
L0049686	0	0.37120E-07	544656.3	3753935.1	258.5	0.00	1.70	0.76	YES	
L0049687	0	0.37120E-07	544659.9	3753935.1	258.5	0.00	1.70	0.76	YES	
L0049688	0	0.37120E-07	544663.6	3753935.1	258.4	0.00	1.70	0.76	YES	
L0049689	0	0.37120E-07	544667.3	3753935.1	258.4	0.00	1.70	0.76	YES	
L0049690	0	0.37120E-07	544670.9	3753935.2	258.4	0.00	1.70	0.76	YES	
L0049691	0	0.37120E-07	544674.6	3753935.2	258.4	0.00	1.70	0.76	YES	
L0049692	0	0.37120E-07	544678.2	3753935.2	258.4	0.00	1.70	0.76	YES	
L0049693	0	0.37120E-07	544681.9	3753935.2	258.4	0.00	1.70	0.76	YES	
L0049694	0	0.37120E-07	544685.5	3753935.2	258.4	0.00	1.70	0.76	YES	
L0049695	0	0.37120E-07	544689.2	3753935.2	258.3	0.00	1.70	0.76	YES	
L0049696	0	0.37120E-07	544692.9	3753935.2	258.3	0.00	1.70	0.76	YES	
L0049697	0	0.37120E-07	544696.5	3753935.2	258.3	0.00	1.70	0.76	YES	
L0049698	0	0.37120E-07	544700.2	3753935.2	258.3	0.00	1.70	0.76	YES	
L0049699	0	0.37120E-07	544703.8	3753935.3	258.3	0.00	1.70	0.76	YES	
L0049700	0	0.37120E-07	544707.5	3753935.3	258.3	0.00	1.70	0.76	YES	
L0049701	0	0.37120E-07	544711.1	3753935.3	258.3	0.00	1.70	0.76	YES	
L0049702	0	0.37120E-07	544714.8	3753935.3	258.2	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049703	0	0.37120E-07	544718.5	3753935.3	258.2	0.00	1.70	0.76	YES	
L0049704	0	0.37120E-07	544722.1	3753935.3	258.2	0.00	1.70	0.76	YES	
L0049705	0	0.37120E-07	544725.8	3753935.3	258.2	0.00	1.70	0.76	YES	
L0049706	0	0.37120E-07	544729.4	3753935.3	258.2	0.00	1.70	0.76	YES	
L0049707	0	0.37120E-07	544733.1	3753935.3	258.2	0.00	1.70	0.76	YES	
L0049708	0	0.37120E-07	544736.8	3753935.4	258.2	0.00	1.70	0.76	YES	
L0049709	0	0.37120E-07	544740.4	3753935.4	258.2	0.00	1.70	0.76	YES	
L0049710	0	0.37120E-07	544744.1	3753935.4	258.2	0.00	1.70	0.76	YES	
L0049711	0	0.37120E-07	544747.7	3753935.4	258.2	0.00	1.70	0.76	YES	
L0049712	0	0.37120E-07	544751.4	3753935.4	258.1	0.00	1.70	0.76	YES	
L0049713	0	0.37120E-07	544755.0	3753935.4	258.1	0.00	1.70	0.76	YES	
L0049714	0	0.37120E-07	544758.7	3753935.4	258.1	0.00	1.70	0.76	YES	
L0049715	0	0.37120E-07	544762.4	3753935.4	258.1	0.00	1.70	0.76	YES	
L0049716	0	0.37120E-07	544766.0	3753935.4	258.1	0.00	1.70	0.76	YES	
L0049717	0	0.37120E-07	544769.7	3753935.5	258.1	0.00	1.70	0.76	YES	
L0049718	0	0.37120E-07	544773.3	3753935.5	258.1	0.00	1.70	0.76	YES	
L0049719	0	0.37120E-07	544777.0	3753935.5	258.1	0.00	1.70	0.76	YES	
L0049720	0	0.37120E-07	544780.6	3753935.5	258.1	0.00	1.70	0.76	YES	
L0049721	0	0.37120E-07	544784.3	3753935.5	258.1	0.00	1.70	0.76	YES	
L0049722	0	0.37120E-07	544788.0	3753935.5	258.1	0.00	1.70	0.76	YES	
L0049723	0	0.37120E-07	544791.6	3753935.5	258.1	0.00	1.70	0.76	YES	
L0049724	0	0.37120E-07	544795.3	3753935.5	258.0	0.00	1.70	0.76	YES	
L0049725	0	0.37120E-07	544798.9	3753935.5	258.0	0.00	1.70	0.76	YES	
L0049726	0	0.37120E-07	544802.6	3753935.5	258.0	0.00	1.70	0.76	YES	
L0049727	0	0.37120E-07	544806.2	3753935.6	258.0	0.00	1.70	0.76	YES	
L0049728	0	0.37120E-07	544809.9	3753935.6	258.0	0.00	1.70	0.76	YES	
L0049729	0	0.37120E-07	544813.6	3753935.6	258.0	0.00	1.70	0.76	YES	
L0049730	0	0.37120E-07	544817.2	3753935.6	258.0	0.00	1.70	0.76	YES	
L0049731	0	0.37120E-07	544820.9	3753935.6	258.0	0.00	1.70	0.76	YES	
L0049732	0	0.37120E-07	544824.5	3753935.6	258.0	0.00	1.70	0.76	YES	
L0049733	0	0.37120E-07	544828.2	3753935.6	258.0	0.00	1.70	0.76	YES	
L0049734	0	0.37120E-07	544831.8	3753935.6	258.0	0.00	1.70	0.76	YES	
L0049735	0	0.37120E-07	544835.5	3753935.6	258.0	0.00	1.70	0.76	YES	
L0049736	0	0.37120E-07	544839.2	3753935.7	257.9	0.00	1.70	0.76	YES	
L0049737	0	0.37120E-07	544842.8	3753935.7	257.9	0.00	1.70	0.76	YES	
L0049738	0	0.37120E-07	544846.5	3753935.7	257.9	0.00	1.70	0.76	YES	
L0049739	0	0.37120E-07	544850.1	3753935.7	257.9	0.00	1.70	0.76	YES	
L0049740	0	0.37120E-07	544853.8	3753935.7	257.9	0.00	1.70	0.76	YES	
L0049741	0	0.37120E-07	544857.5	3753935.7	257.9	0.00	1.70	0.76	YES	
L0049742	0	0.37120E-07	544861.1	3753935.7	257.9	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049743	0	0.37120E-07	544864.8	3753935.7	257.9	0.00	1.70	0.76	YES	
L0049744	0	0.37120E-07	544868.4	3753935.7	257.9	0.00	1.70	0.76	YES	
L0049745	0	0.37120E-07	544872.1	3753935.8	257.9	0.00	1.70	0.76	YES	
L0049746	0	0.37120E-07	544875.7	3753935.8	257.9	0.00	1.70	0.76	YES	
L0049747	0	0.37120E-07	544879.4	3753935.8	257.9	0.00	1.70	0.76	YES	
L0049748	0	0.37120E-07	544883.1	3753935.8	257.9	0.00	1.70	0.76	YES	
L0049749	0	0.37120E-07	544886.7	3753935.8	257.9	0.00	1.70	0.76	YES	
L0049750	0	0.37120E-07	544890.4	3753935.8	257.9	0.00	1.70	0.76	YES	
L0049751	0	0.37120E-07	544894.0	3753935.8	257.9	0.00	1.70	0.76	YES	
L0049752	0	0.37120E-07	544897.7	3753935.8	257.9	0.00	1.70	0.76	YES	
L0049753	0	0.37120E-07	544901.3	3753935.8	257.8	0.00	1.70	0.76	YES	
L0049754	0	0.37120E-07	544905.0	3753935.9	257.8	0.00	1.70	0.76	YES	
L0049755	0	0.37120E-07	544908.7	3753935.9	257.8	0.00	1.70	0.76	YES	
L0049756	0	0.37120E-07	544912.3	3753935.9	257.8	0.00	1.70	0.76	YES	
L0049757	0	0.37120E-07	544916.0	3753935.9	257.8	0.00	1.70	0.76	YES	
L0049758	0	0.37120E-07	544919.6	3753935.9	257.8	0.00	1.70	0.76	YES	
L0049759	0	0.37120E-07	544923.3	3753935.9	257.8	0.00	1.70	0.76	YES	
L0049760	0	0.37120E-07	544926.9	3753935.9	257.8	0.00	1.70	0.76	YES	
L0049761	0	0.37120E-07	544930.6	3753935.9	257.8	0.00	1.70	0.76	YES	
L0049762	0	0.37120E-07	544934.3	3753935.9	257.8	0.00	1.70	0.76	YES	
L0049763	0	0.37120E-07	544937.9	3753935.9	257.8	0.00	1.70	0.76	YES	
L0049764	0	0.37120E-07	544941.6	3753936.0	257.8	0.00	1.70	0.76	YES	
L0049765	0	0.37120E-07	544945.2	3753936.0	257.8	0.00	1.70	0.76	YES	
L0049766	0	0.37120E-07	544948.9	3753936.0	257.8	0.00	1.70	0.76	YES	
L0049767	0	0.37120E-07	544952.6	3753936.0	257.8	0.00	1.70	0.76	YES	
L0049768	0	0.37120E-07	544956.2	3753936.0	257.7	0.00	1.70	0.76	YES	
L0049769	0	0.37120E-07	544959.9	3753936.0	257.7	0.00	1.70	0.76	YES	
L0049770	0	0.37120E-07	544963.5	3753936.0	257.7	0.00	1.70	0.76	YES	
L0049771	0	0.37120E-07	544967.2	3753936.0	257.7	0.00	1.70	0.76	YES	
L0049772	0	0.37120E-07	544970.8	3753936.0	257.7	0.00	1.70	0.76	YES	
L0049773	0	0.37120E-07	544974.5	3753936.1	257.7	0.00	1.70	0.76	YES	
L0049774	0	0.37120E-07	544978.2	3753936.1	257.7	0.00	1.70	0.76	YES	
L0049775	0	0.37120E-07	544981.8	3753936.1	257.7	0.00	1.70	0.76	YES	
L0049776	0	0.37120E-07	544985.5	3753936.1	257.7	0.00	1.70	0.76	YES	
L0049777	0	0.37120E-07	544989.1	3753936.1	257.7	0.00	1.70	0.76	YES	
L0049778	0	0.37120E-07	544992.8	3753936.1	257.7	0.00	1.70	0.76	YES	
L0049779	0	0.37120E-07	544996.4	3753936.1	257.7	0.00	1.70	0.76	YES	
L0049780	0	0.37120E-07	545000.1	3753936.1	257.7	0.00	1.70	0.76	YES	
L0049781	0	0.37120E-07	545003.8	3753936.1	257.7	0.00	1.70	0.76	YES	
L0049782	0	0.37120E-07	545007.4	3753936.2	257.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049783	0	0.37120E-07	545011.1	3753936.2	257.7	0.00	1.70	0.76	YES	
L0049784	0	0.37120E-07	545014.7	3753936.2	257.7	0.00	1.70	0.76	YES	
L0049785	0	0.37120E-07	545018.4	3753936.2	257.7	0.00	1.70	0.76	YES	
L0049786	0	0.37120E-07	545022.0	3753936.2	257.7	0.00	1.70	0.76	YES	
L0049787	0	0.37120E-07	545025.7	3753936.2	257.7	0.00	1.70	0.76	YES	
L0049788	0	0.37120E-07	545029.4	3753936.2	257.7	0.00	1.70	0.76	YES	
L0049789	0	0.37120E-07	545033.0	3753936.2	257.7	0.00	1.70	0.76	YES	
L0049790	0	0.37120E-07	545036.7	3753936.2	257.6	0.00	1.70	0.76	YES	
L0049791	0	0.37120E-07	545040.3	3753936.3	257.6	0.00	1.70	0.76	YES	
L0049792	0	0.37120E-07	545044.0	3753936.3	257.6	0.00	1.70	0.76	YES	
L0049793	0	0.37120E-07	545047.6	3753936.3	257.6	0.00	1.70	0.76	YES	
L0049794	0	0.37120E-07	545051.3	3753936.3	257.6	0.00	1.70	0.76	YES	
L0049795	0	0.37120E-07	545055.0	3753936.3	257.6	0.00	1.70	0.76	YES	
L0049796	0	0.37120E-07	545058.6	3753936.3	257.6	0.00	1.70	0.76	YES	
L0049797	0	0.37120E-07	545062.3	3753936.3	257.6	0.00	1.70	0.76	YES	
L0049798	0	0.37120E-07	545065.9	3753936.3	257.6	0.00	1.70	0.76	YES	
L0049799	0	0.37120E-07	545069.6	3753936.3	257.6	0.00	1.70	0.76	YES	
L0049800	0	0.37120E-07	545073.2	3753936.3	257.6	0.00	1.70	0.76	YES	
L0049801	0	0.37120E-07	545076.9	3753936.4	257.6	0.00	1.70	0.76	YES	
L0049802	0	0.37120E-07	545080.6	3753936.4	257.6	0.00	1.70	0.76	YES	
L0049803	0	0.37120E-07	545084.2	3753936.4	257.6	0.00	1.70	0.76	YES	
L0049804	0	0.37120E-07	545087.9	3753936.4	257.6	0.00	1.70	0.76	YES	
L0049805	0	0.37120E-07	545091.5	3753936.4	257.5	0.00	1.70	0.76	YES	
L0049806	0	0.37120E-07	545095.2	3753936.4	257.5	0.00	1.70	0.76	YES	
L0049807	0	0.37120E-07	545098.9	3753936.4	257.5	0.00	1.70	0.76	YES	
L0049808	0	0.37120E-07	545102.5	3753936.4	257.5	0.00	1.70	0.76	YES	
L0049809	0	0.37120E-07	545106.2	3753936.4	257.5	0.00	1.70	0.76	YES	
L0049810	0	0.37120E-07	545109.8	3753936.5	257.5	0.00	1.70	0.76	YES	
L0049811	0	0.37120E-07	545113.5	3753936.5	257.5	0.00	1.70	0.76	YES	
L0049812	0	0.37120E-07	545117.1	3753936.5	257.5	0.00	1.70	0.76	YES	
L0049813	0	0.37120E-07	545120.8	3753936.5	257.5	0.00	1.70	0.76	YES	
L0049814	0	0.37120E-07	545124.5	3753936.5	257.5	0.00	1.70	0.76	YES	
L0049815	0	0.37120E-07	545128.1	3753936.5	257.5	0.00	1.70	0.76	YES	
L0049816	0	0.37120E-07	545131.8	3753936.5	257.5	0.00	1.70	0.76	YES	
L0049817	0	0.37120E-07	545135.4	3753936.5	257.4	0.00	1.70	0.76	YES	
L0049818	0	0.37120E-07	545139.1	3753936.5	257.4	0.00	1.70	0.76	YES	
L0049819	0	0.37120E-07	545142.7	3753936.6	257.4	0.00	1.70	0.76	YES	
L0049820	0	0.37120E-07	545146.4	3753936.6	257.4	0.00	1.70	0.76	YES	

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L0049821         0   0.37120E-07  545150.1 3753936.6   257.4     0.00     1.70     0.76     YES
L0049822         0   0.37120E-07  545153.7 3753936.6   257.4     0.00     1.70     0.76     YES

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 2nd 14 years                    ***        05/26/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 2nd 14 years                           ***        07:57:00
                                                                                                                    PAGE  93
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

             NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.   URBAN  EMISSION RATE
  SOURCE      PART.  (GRAMS/SEC)     X         Y      ELEV.   HEIGHT      SY       SZ     SOURCE  SCALAR VARY
    ID        CATS.                (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)             BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

L0049823         0   0.37120E-07  545157.4 3753936.6   257.4     0.00     1.70     0.76     YES
L0049824         0   0.37120E-07  545161.0 3753936.6   257.4     0.00     1.70     0.76     YES
L0049825         0   0.37120E-07  545164.7 3753936.6   257.3     0.00     1.70     0.76     YES
L0049826         0   0.37120E-07  545168.3 3753936.6   257.3     0.00     1.70     0.76     YES
L0049827         0   0.37120E-07  545172.0 3753936.6   257.3     0.00     1.70     0.76     YES
L0049828         0   0.37120E-07  545175.7 3753936.7   257.3     0.00     1.70     0.76     YES
L0049829         0   0.37120E-07  545179.3 3753936.7   257.3     0.00     1.70     0.76     YES
L0049830         0   0.37120E-07  545183.0 3753936.7   257.2     0.00     1.70     0.76     YES
L0049831         0   0.37120E-07  545186.6 3753936.7   257.2     0.00     1.70     0.76     YES
L0049832         0   0.37120E-07  545190.3 3753936.7   257.2     0.00     1.70     0.76     YES
L0049833         0   0.37120E-07  545194.0 3753936.7   257.2     0.00     1.70     0.76     YES
L0049834         0   0.37120E-07  545197.6 3753936.7   257.2     0.00     1.70     0.76     YES
L0049835         0   0.37120E-07  545201.3 3753936.7   257.2     0.00     1.70     0.76     YES
L0049836         0   0.37120E-07  545204.9 3753936.7   257.1     0.00     1.70     0.76     YES
L0049837         0   0.37120E-07  545208.6 3753936.8   257.1     0.00     1.70     0.76     YES
L0049838         0   0.37120E-07  545212.2 3753936.8   257.0     0.00     1.70     0.76     YES
L0049839         0   0.37120E-07  545215.9 3753936.8   257.0     0.00     1.70     0.76     YES
L0049840         0   0.37120E-07  545219.6 3753936.8   257.0     0.00     1.70     0.76     YES
L0049841         0   0.37120E-07  545223.2 3753936.8   256.9     0.00     1.70     0.76     YES
L0049842         0   0.37120E-07  545226.9 3753936.8   256.9     0.00     1.70     0.76     YES
L0049843         0   0.37120E-07  545230.5 3753936.8   256.9     0.00     1.70     0.76     YES
L0049844         0   0.37120E-07  545234.2 3753936.8   256.8     0.00     1.70     0.76     YES
L0049845         0   0.37120E-07  545237.8 3753936.8   256.8     0.00     1.70     0.76     YES
L0049846         0   0.37120E-07  545241.5 3753936.8   256.7     0.00     1.70     0.76     YES
L0049847         0   0.37120E-07  545245.2 3753936.9   256.7     0.00     1.70     0.76     YES
L0049848         0   0.37120E-07  545248.8 3753936.9   256.6     0.00     1.70     0.76     YES
L0049849         0   0.37120E-07  545252.5 3753936.9   256.6     0.00     1.70     0.76     YES
L0049850         0   0.37120E-07  545256.1 3753936.9   256.6     0.00     1.70     0.76     YES
L0049851         0   0.37120E-07  545259.8 3753936.9   256.5     0.00     1.70     0.76     YES
L0049852         0   0.37120E-07  545263.4 3753936.9   256.5     0.00     1.70     0.76     YES
L0049853         0   0.37120E-07  545267.1 3753936.9   256.4     0.00     1.70     0.76     YES
L0049854         0   0.37120E-07  545270.8 3753936.9   256.4     0.00     1.70     0.76     YES
L0049855         0   0.37120E-07  545274.4 3753936.9   256.4     0.00     1.70     0.76     YES
L0049856         0   0.37120E-07  545278.1 3753937.0   256.3     0.00     1.70     0.76     YES
L0049857         0   0.37120E-07  545281.7 3753937.0   256.3     0.00     1.70     0.76     YES
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L0049858	0	0.37120E-07	545285.4	3753937.0	256.2	0.00	1.70	0.76	YES	
L0049859	0	0.37120E-07	545289.0	3753937.0	256.2	0.00	1.70	0.76	YES	
L0049860	0	0.37120E-07	545292.7	3753937.0	256.2	0.00	1.70	0.76	YES	
L0049861	0	0.37120E-07	545296.4	3753937.0	256.1	0.00	1.70	0.76	YES	
L0049862	0	0.37120E-07	545300.0	3753937.0	256.1	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049863	0	0.37120E-07	545303.7	3753937.0	256.1	0.00	1.70	0.76	YES	
L0049864	0	0.37120E-07	545307.3	3753937.0	256.0	0.00	1.70	0.76	YES	
L0049865	0	0.37120E-07	545311.0	3753937.1	256.0	0.00	1.70	0.76	YES	
L0049866	0	0.37120E-07	545314.7	3753937.1	256.0	0.00	1.70	0.76	YES	
L0049867	0	0.37120E-07	545318.3	3753937.1	255.9	0.00	1.70	0.76	YES	
L0049868	0	0.37120E-07	545322.0	3753937.1	255.9	0.00	1.70	0.76	YES	
L0049869	0	0.37120E-07	545325.6	3753937.1	255.9	0.00	1.70	0.76	YES	
L0049870	0	0.37120E-07	545329.3	3753937.1	255.8	0.00	1.70	0.76	YES	
L0049871	0	0.37120E-07	545332.9	3753937.1	255.8	0.00	1.70	0.76	YES	
L0049872	0	0.37120E-07	545336.6	3753937.1	255.8	0.00	1.70	0.76	YES	
L0049873	0	0.37120E-07	545340.3	3753937.1	255.8	0.00	1.70	0.76	YES	
L0049874	0	0.37120E-07	545343.9	3753937.2	255.8	0.00	1.70	0.76	YES	
L0049875	0	0.37120E-07	545347.6	3753937.2	255.8	0.00	1.70	0.76	YES	
L0049876	0	0.37120E-07	545351.2	3753937.2	255.8	0.00	1.70	0.76	YES	
L0049877	0	0.37120E-07	545354.9	3753937.2	255.8	0.00	1.70	0.76	YES	
L0049878	0	0.37120E-07	545358.5	3753937.2	255.8	0.00	1.70	0.76	YES	
L0049879	0	0.37120E-07	545362.2	3753937.2	255.8	0.00	1.70	0.76	YES	
L0049880	0	0.37120E-07	545365.9	3753937.2	255.8	0.00	1.70	0.76	YES	
L0049881	0	0.37120E-07	545369.5	3753937.2	255.8	0.00	1.70	0.76	YES	
L0049882	0	0.37120E-07	545373.2	3753937.2	255.8	0.00	1.70	0.76	YES	
L0049883	0	0.37120E-07	545376.8	3753937.2	255.8	0.00	1.70	0.76	YES	
L0049884	0	0.37120E-07	545380.5	3753937.3	255.8	0.00	1.70	0.76	YES	
L0049885	0	0.37120E-07	545384.1	3753937.3	255.8	0.00	1.70	0.76	YES	
L0049886	0	0.37120E-07	545387.8	3753937.3	255.8	0.00	1.70	0.76	YES	
L0049887	0	0.37120E-07	545391.5	3753937.3	255.8	0.00	1.70	0.76	YES	
L0049888	0	0.37120E-07	545395.1	3753937.3	255.8	0.00	1.70	0.76	YES	
L0049889	0	0.37120E-07	545398.8	3753937.3	255.8	0.00	1.70	0.76	YES	
L0049890	0	0.37120E-07	545402.4	3753937.3	255.8	0.00	1.70	0.76	YES	
L0049891	0	0.37120E-07	545406.1	3753937.3	255.8	0.00	1.70	0.76	YES	
L0049892	0	0.37120E-07	545409.7	3753937.3	255.8	0.00	1.70	0.76	YES	
L0049893	0	0.37120E-07	545413.4	3753937.4	255.7	0.00	1.70	0.76	YES	
L0049894	0	0.37120E-07	545417.1	3753937.4	255.7	0.00	1.70	0.76	YES	

L0049895	0	0.37120E-07	545420.7	3753937.4	255.7	0.00	1.70	0.76	YES	
L0049896	0	0.37120E-07	545424.4	3753937.4	255.7	0.00	1.70	0.76	YES	
L0049897	0	0.37120E-07	545428.0	3753937.4	255.7	0.00	1.70	0.76	YES	
L0049898	0	0.37120E-07	545431.7	3753937.4	255.7	0.00	1.70	0.76	YES	
L0049899	0	0.37120E-07	545435.4	3753937.4	255.7	0.00	1.70	0.76	YES	
L0049900	0	0.37120E-07	545439.0	3753937.4	255.7	0.00	1.70	0.76	YES	
L0049901	0	0.37120E-07	545442.7	3753937.4	255.7	0.00	1.70	0.76	YES	
L0049902	0	0.37120E-07	545446.3	3753937.5	255.7	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049903	0	0.37120E-07	545450.0	3753937.5	255.7	0.00	1.70	0.76	YES	
L0049904	0	0.37120E-07	545453.6	3753937.5	255.7	0.00	1.70	0.76	YES	
L0049905	0	0.37120E-07	545457.3	3753937.5	255.7	0.00	1.70	0.76	YES	
L0049906	0	0.37120E-07	545461.0	3753937.5	255.7	0.00	1.70	0.76	YES	
L0049907	0	0.37120E-07	545464.6	3753937.5	255.6	0.00	1.70	0.76	YES	
L0049908	0	0.37120E-07	545468.3	3753937.5	255.6	0.00	1.70	0.76	YES	
L0049909	0	0.37120E-07	545471.9	3753937.5	255.6	0.00	1.70	0.76	YES	
L0049910	0	0.37120E-07	545475.6	3753937.5	255.6	0.00	1.70	0.76	YES	
L0049911	0	0.37120E-07	545479.2	3753937.6	255.6	0.00	1.70	0.76	YES	
L0049912	0	0.37120E-07	545482.9	3753937.6	255.6	0.00	1.70	0.76	YES	
L0049913	0	0.37120E-07	545486.6	3753937.6	255.6	0.00	1.70	0.76	YES	
L0049914	0	0.37120E-07	545490.2	3753937.6	255.6	0.00	1.70	0.76	YES	
L0049915	0	0.37120E-07	545493.9	3753937.6	255.6	0.00	1.70	0.76	YES	
L0049916	0	0.37120E-07	545497.5	3753937.6	255.6	0.00	1.70	0.76	YES	
L0049917	0	0.37120E-07	545501.2	3753937.6	255.5	0.00	1.70	0.76	YES	
L0049918	0	0.37120E-07	545504.8	3753937.6	255.5	0.00	1.70	0.76	YES	
L0049919	0	0.37120E-07	545508.5	3753937.6	255.5	0.00	1.70	0.76	YES	
L0049920	0	0.37120E-07	545512.2	3753937.6	255.5	0.00	1.70	0.76	YES	
L0049921	0	0.37120E-07	545515.8	3753937.7	255.5	0.00	1.70	0.76	YES	
L0049922	0	0.37120E-07	545519.5	3753937.7	255.5	0.00	1.70	0.76	YES	
L0049923	0	0.37120E-07	545523.1	3753937.7	255.5	0.00	1.70	0.76	YES	
L0049924	0	0.37120E-07	545526.8	3753937.7	255.4	0.00	1.70	0.76	YES	
L0049925	0	0.37120E-07	545530.4	3753937.7	255.4	0.00	1.70	0.76	YES	
L0049926	0	0.37120E-07	545534.1	3753937.7	255.4	0.00	1.70	0.76	YES	
L0049927	0	0.37120E-07	545537.8	3753937.7	255.4	0.00	1.70	0.76	YES	
L0049928	0	0.37120E-07	545541.4	3753937.7	255.4	0.00	1.70	0.76	YES	
L0049929	0	0.37120E-07	545545.1	3753937.7	255.4	0.00	1.70	0.76	YES	
L0049930	0	0.37120E-07	545548.7	3753937.8	255.4	0.00	1.70	0.76	YES	
L0049931	0	0.37120E-07	545552.4	3753937.8	255.4	0.00	1.70	0.76	YES	

L0049932	0	0.37120E-07	545556.1	3753937.8	255.3	0.00	1.70	0.76	YES
L0049933	0	0.37120E-07	545559.7	3753937.8	255.3	0.00	1.70	0.76	YES
L0049934	0	0.37120E-07	545563.4	3753937.8	255.3	0.00	1.70	0.76	YES
L0049935	0	0.37120E-07	545567.0	3753937.8	255.3	0.00	1.70	0.76	YES
L0049936	0	0.37120E-07	545570.7	3753937.8	255.3	0.00	1.70	0.76	YES
L0049937	0	0.37120E-07	545574.3	3753937.8	255.3	0.00	1.70	0.76	YES
L0049938	0	0.37120E-07	545578.0	3753937.8	255.2	0.00	1.70	0.76	YES
L0049939	0	0.37120E-07	545581.7	3753937.9	255.2	0.00	1.70	0.76	YES
L0049940	0	0.37120E-07	545585.3	3753937.9	255.2	0.00	1.70	0.76	YES
L0049941	0	0.37120E-07	545589.0	3753937.9	255.2	0.00	1.70	0.76	YES
L0049942	0	0.37120E-07	545592.6	3753937.9	255.2	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049943	0	0.37120E-07	545596.3	3753937.9	255.2	0.00	1.70	0.76	YES	
L0049944	0	0.37120E-07	545599.9	3753937.9	255.2	0.00	1.70	0.76	YES	
L0049945	0	0.37120E-07	545603.6	3753937.9	255.2	0.00	1.70	0.76	YES	
L0049946	0	0.37120E-07	545607.3	3753937.9	255.1	0.00	1.70	0.76	YES	
L0049947	0	0.37120E-07	545610.9	3753937.9	255.1	0.00	1.70	0.76	YES	
L0049948	0	0.37120E-07	545614.6	3753938.0	255.1	0.00	1.70	0.76	YES	
L0049949	0	0.37120E-07	545618.2	3753938.0	255.1	0.00	1.70	0.76	YES	
L0049950	0	0.37120E-07	545621.9	3753938.0	255.1	0.00	1.70	0.76	YES	
L0049951	0	0.37120E-07	545625.5	3753938.0	255.1	0.00	1.70	0.76	YES	
L0049952	0	0.37120E-07	545629.2	3753938.0	255.1	0.00	1.70	0.76	YES	
L0049953	0	0.37120E-07	545632.9	3753938.0	255.0	0.00	1.70	0.76	YES	
L0049954	0	0.37120E-07	545636.5	3753938.0	255.0	0.00	1.70	0.76	YES	
L0049955	0	0.37120E-07	545640.2	3753938.0	255.0	0.00	1.70	0.76	YES	
L0049956	0	0.37120E-07	545643.8	3753938.0	255.0	0.00	1.70	0.76	YES	
L0049957	0	0.37120E-07	545647.5	3753938.1	254.9	0.00	1.70	0.76	YES	
L0049958	0	0.37120E-07	545651.1	3753938.1	254.9	0.00	1.70	0.76	YES	
L0049959	0	0.37120E-07	545654.8	3753938.1	254.9	0.00	1.70	0.76	YES	
L0049960	0	0.37120E-07	545658.5	3753938.1	254.9	0.00	1.70	0.76	YES	
L0049961	0	0.37120E-07	545662.1	3753938.1	254.8	0.00	1.70	0.76	YES	
L0049962	0	0.37120E-07	545665.8	3753938.1	254.8	0.00	1.70	0.76	YES	
L0049963	0	0.37120E-07	545669.4	3753938.1	254.8	0.00	1.70	0.76	YES	
L0049964	0	0.37120E-07	545673.1	3753938.1	254.8	0.00	1.70	0.76	YES	
L0049965	0	0.37120E-07	545676.8	3753938.1	254.7	0.00	1.70	0.76	YES	
L0049966	0	0.37120E-07	545680.4	3753938.1	254.7	0.00	1.70	0.76	YES	
L0049967	0	0.37120E-07	545684.1	3753938.2	254.7	0.00	1.70	0.76	YES	
L0049968	0	0.37120E-07	545687.7	3753938.2	254.7	0.00	1.70	0.76	YES	

L0049969	0	0.37120E-07	545691.4	3753938.2	254.6	0.00	1.70	0.76	YES
L0049970	0	0.37120E-07	545695.0	3753938.2	254.6	0.00	1.70	0.76	YES
L0049971	0	0.37120E-07	545698.7	3753938.2	254.6	0.00	1.70	0.76	YES
L0049972	0	0.37120E-07	545702.4	3753938.2	254.6	0.00	1.70	0.76	YES
L0049973	0	0.37120E-07	545706.0	3753938.2	254.5	0.00	1.70	0.76	YES
L0049974	0	0.37120E-07	545709.7	3753938.2	254.5	0.00	1.70	0.76	YES
L0049975	0	0.37120E-07	545713.3	3753938.2	254.5	0.00	1.70	0.76	YES
L0049976	0	0.37120E-07	545717.0	3753938.3	254.5	0.00	1.70	0.76	YES
L0049977	0	0.37120E-07	545720.6	3753938.3	254.5	0.00	1.70	0.76	YES
L0049978	0	0.37120E-07	545724.3	3753938.3	254.4	0.00	1.70	0.76	YES
L0049979	0	0.37120E-07	545728.0	3753938.3	254.4	0.00	1.70	0.76	YES
L0049980	0	0.37120E-07	545731.6	3753938.3	254.4	0.00	1.70	0.76	YES
L0049981	0	0.37120E-07	545735.3	3753938.3	254.4	0.00	1.70	0.76	YES
L0049982	0	0.37120E-07	545738.9	3753938.3	254.3	0.00	1.70	0.76	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0049983	0	0.37120E-07	545742.6	3753938.3	254.3	0.00	1.70	0.76	YES	
L0049984	0	0.37120E-07	545746.2	3753938.3	254.3	0.00	1.70	0.76	YES	
L0049985	0	0.37120E-07	545749.9	3753938.4	254.2	0.00	1.70	0.76	YES	
L0049986	0	0.37120E-07	545753.6	3753938.4	254.2	0.00	1.70	0.76	YES	
L0049987	0	0.37120E-07	545757.2	3753938.4	254.2	0.00	1.70	0.76	YES	
L0049988	0	0.37120E-07	545760.9	3753938.4	254.2	0.00	1.70	0.76	YES	
L0049989	0	0.37120E-07	545764.5	3753938.4	254.1	0.00	1.70	0.76	YES	
L0049990	0	0.37120E-07	545768.2	3753938.4	254.1	0.00	1.70	0.76	YES	
L0049991	0	0.37120E-07	545771.8	3753938.4	254.1	0.00	1.70	0.76	YES	
L0049992	0	0.37120E-07	545775.5	3753938.4	254.0	0.00	1.70	0.76	YES	
L0049993	0	0.37120E-07	545779.2	3753938.4	254.0	0.00	1.70	0.76	YES	
L0049994	0	0.37120E-07	545782.8	3753938.5	254.0	0.00	1.70	0.76	YES	
L0049995	0	0.37120E-07	545786.5	3753938.5	254.0	0.00	1.70	0.76	YES	
L0049996	0	0.37120E-07	545790.1	3753938.5	253.9	0.00	1.70	0.76	YES	
L0049997	0	0.37120E-07	545793.8	3753938.5	253.9	0.00	1.70	0.76	YES	
L0049998	0	0.37120E-07	545797.5	3753938.5	253.9	0.00	1.70	0.76	YES	
L0049999	0	0.37120E-07	545801.1	3753938.5	253.8	0.00	1.70	0.76	YES	
L0050000	0	0.37120E-07	545804.8	3753938.5	253.8	0.00	1.70	0.76	YES	
L0050001	0	0.37120E-07	545808.4	3753938.5	253.8	0.00	1.70	0.76	YES	
L0050002	0	0.37120E-07	545812.1	3753938.5	253.7	0.00	1.70	0.76	YES	
L0050003	0	0.37120E-07	545815.7	3753938.5	253.7	0.00	1.70	0.76	YES	
L0050004	0	0.37120E-07	545819.4	3753938.6	253.6	0.00	1.70	0.76	YES	
L0050005	0	0.37120E-07	545823.1	3753938.6	253.6	0.00	1.70	0.76	YES	

L0050006	0	0.37120E-07	545826.7	3753938.6	253.5	0.00	1.70	0.76	YES	
L0050007	0	0.37120E-07	545830.4	3753938.6	253.5	0.00	1.70	0.76	YES	
L0050008	0	0.37120E-07	545834.0	3753938.6	253.4	0.00	1.70	0.76	YES	
L0050009	0	0.37120E-07	545837.7	3753938.6	253.4	0.00	1.70	0.76	YES	
L0050010	0	0.37120E-07	545841.3	3753938.6	253.3	0.00	1.70	0.76	YES	
L0050011	0	0.37120E-07	545845.0	3753938.6	253.3	0.00	1.70	0.76	YES	
L0050012	0	0.37120E-07	545848.7	3753938.6	253.3	0.00	1.70	0.76	YES	
L0050013	0	0.37120E-07	545852.3	3753938.7	253.3	0.00	1.70	0.76	YES	
L0050014	0	0.37120E-07	545856.0	3753938.7	253.3	0.00	1.70	0.76	YES	
L0050015	0	0.37120E-07	545859.6	3753938.7	253.3	0.00	1.70	0.76	YES	
L0050016	0	0.37120E-07	545863.3	3753938.7	253.3	0.00	1.70	0.76	YES	
L0050017	0	0.37120E-07	545866.9	3753938.7	253.2	0.00	1.70	0.76	YES	
L0050018	0	0.37120E-07	545870.6	3753938.7	253.2	0.00	1.70	0.76	YES	
L0050019	0	0.37120E-07	545874.3	3753938.7	253.2	0.00	1.70	0.76	YES	
L0050020	0	0.37120E-07	545877.9	3753938.7	253.2	0.00	1.70	0.76	YES	
L0050021	0	0.37120E-07	545881.6	3753938.7	253.2	0.00	1.70	0.76	YES	
L0050022	0	0.37120E-07	545885.2	3753938.8	253.2	0.00	1.70	0.76	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0050023	0	0.37120E-07	545888.9	3753938.8	253.1	0.00	1.70	0.76	YES	
L0050024	0	0.37120E-07	545892.5	3753938.8	253.1	0.00	1.70	0.76	YES	
L0050025	0	0.37120E-07	545896.2	3753938.8	253.1	0.00	1.70	0.76	YES	
L0050026	0	0.37120E-07	545899.9	3753938.8	253.0	0.00	1.70	0.76	YES	
L0050027	0	0.37120E-07	545903.5	3753938.8	253.0	0.00	1.70	0.76	YES	
L0050028	0	0.37120E-07	545907.2	3753938.8	252.9	0.00	1.70	0.76	YES	
L0050029	0	0.37120E-07	545910.8	3753938.8	252.9	0.00	1.70	0.76	YES	
L0050030	0	0.37120E-07	545914.5	3753938.8	252.8	0.00	1.70	0.76	YES	
L0050031	0	0.37120E-07	545918.2	3753938.9	252.8	0.00	1.70	0.76	YES	
L0050032	0	0.37120E-07	545921.8	3753938.9	252.7	0.00	1.70	0.76	YES	
L0050033	0	0.37120E-07	545925.5	3753938.9	252.7	0.00	1.70	0.76	YES	
L0050034	0	0.37120E-07	545929.1	3753938.9	252.7	0.00	1.70	0.76	YES	
L0050035	0	0.37120E-07	545932.8	3753938.9	252.6	0.00	1.70	0.76	YES	
L0050036	0	0.37120E-07	545936.4	3753938.9	252.6	0.00	1.70	0.76	YES	
L0050037	0	0.37120E-07	545940.1	3753938.9	252.6	0.00	1.70	0.76	YES	
L0050038	0	0.37120E-07	545943.8	3753938.9	252.5	0.00	1.70	0.76	YES	
L0050039	0	0.37120E-07	545947.4	3753938.9	252.5	0.00	1.70	0.76	YES	
L0050040	0	0.37120E-07	545951.1	3753938.9	252.5	0.00	1.70	0.76	YES	
L0050041	0	0.37120E-07	545954.7	3753939.0	252.4	0.00	1.70	0.76	YES	
L0050042	0	0.37120E-07	545958.4	3753939.0	252.4	0.00	1.70	0.76	YES	

L0050043	0	0.37120E-07	545962.0	3753939.0	252.4	0.00	1.70	0.76	YES
L0050044	0	0.37120E-07	545965.7	3753939.0	252.4	0.00	1.70	0.76	YES
L0050045	0	0.37120E-07	545969.4	3753939.0	252.4	0.00	1.70	0.76	YES
L0050046	0	0.37120E-07	545973.0	3753939.0	252.3	0.00	1.70	0.76	YES
L0050047	0	0.37120E-07	545976.7	3753939.0	252.3	0.00	1.70	0.76	YES
L0050048	0	0.37120E-07	545980.3	3753939.0	252.2	0.00	1.70	0.76	YES
L0050049	0	0.37120E-07	545984.0	3753939.0	252.2	0.00	1.70	0.76	YES
L0050050	0	0.37120E-07	545987.6	3753939.1	252.2	0.00	1.70	0.76	YES
L0050051	0	0.37120E-07	545991.3	3753939.1	252.1	0.00	1.70	0.76	YES
L0050052	0	0.37120E-07	545995.0	3753939.1	252.1	0.00	1.70	0.76	YES
L0050053	0	0.37120E-07	545998.6	3753939.1	252.1	0.00	1.70	0.76	YES
L0050054	0	0.37120E-07	546002.3	3753939.1	252.1	0.00	1.70	0.76	YES
L0050055	0	0.37120E-07	546005.9	3753939.1	252.0	0.00	1.70	0.76	YES
L0050056	0	0.37120E-07	546009.6	3753939.1	252.0	0.00	1.70	0.76	YES
L0050057	0	0.37120E-07	546013.2	3753939.1	252.0	0.00	1.70	0.76	YES
L0050058	0	0.37120E-07	546016.9	3753939.1	252.0	0.00	1.70	0.76	YES
L0050059	0	0.37120E-07	546020.6	3753939.2	252.0	0.00	1.70	0.76	YES
L0050060	0	0.37120E-07	546024.2	3753939.2	252.0	0.00	1.70	0.76	YES
L0050061	0	0.37120E-07	546027.9	3753939.2	252.0	0.00	1.70	0.76	YES
L0050062	0	0.37120E-07	546031.5	3753939.2	252.0	0.00	1.70	0.76	YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0050063	0	0.37120E-07	546035.2	3753939.2	251.9	0.00	1.70	0.76	YES	
L0050064	0	0.37120E-07	546038.9	3753939.2	251.9	0.00	1.70	0.76	YES	
L0050065	0	0.37120E-07	546042.5	3753939.2	251.9	0.00	1.70	0.76	YES	
L0050066	0	0.37120E-07	546046.2	3753939.2	251.9	0.00	1.70	0.76	YES	
L0050067	0	0.37120E-07	546049.8	3753939.2	251.9	0.00	1.70	0.76	YES	
L0050068	0	0.37120E-07	546053.5	3753939.3	251.9	0.00	1.70	0.76	YES	
L0050069	0	0.37120E-07	546057.1	3753939.3	251.9	0.00	1.70	0.76	YES	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID

SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID

SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0046670 , L0046671 , L0046672 , L0046673 , L0046674 , L0046675 , L0046676 , L0046677 ,
	L0046678 , L0046679 , L0046680 , L0046681 , L0046682 , L0046683 , L0046684 , L0046685 ,
	L0046686 , L0046687 , L0046688 , L0046689 , L0046690 , L0046691 , L0046692 , L0046693 ,
	L0046694 , L0046695 , L0046696 , L0046697 , L0046698 , L0046699 , L0046700 , L0046701 ,
	L0046702 , L0046703 , L0046704 , L0046705 , L0046706 , L0046707 , L0046708 , L0046709 ,
	L0046710 , L0046711 , L0046712 , L0046713 , L0046714 , L0046715 , L0046716 , L0046717 ,
	L0046718 , L0046719 , L0046720 , L0046721 , L0046722 , L0046723 , L0046724 , L0046725 ,
	L0046726 , L0046727 , L0046728 , L0046729 , L0046730 , L0046731 , L0046732 , L0046733 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
	L0046734 , L0046735 , L0046736 , L0046737 , L0046738 , L0046739 , L0046740 , L0046741 ,
	L0046742 , L0046743 , L0046744 , L0046745 , L0046746 , L0046747 , L0046748 , L0046749 ,
	L0046750 , L0046751 , L0046752 , L0046753 , L0046754 , L0046755 , L0046756 , L0046757 ,
	L0046758 , L0046759 , L0046760 , L0046761 , L0046762 , L0046763 , L0046764 , L0046765 ,
	L0046766 , L0046767 , L0046768 , L0046769 , L0046770 , L0046771 , L0046772 , L0046773 ,
	L0046774 , L0046775 , L0046776 , L0046777 , L0046778 , L0046779 , L0046780 , L0046781 ,
	L0046782 , L0046783 , L0046784 , L0046785 , L0046786 , L0046787 , L0046788 , L0046789 ,
	L0046790 , L0046791 , L0046792 , L0046793 , L0046794 , L0046795 , L0046796 , L0046797 ,
	L0046798 , L0046799 , L0046800 , L0046801 , L0046802 , L0046803 , L0046804 , L0046805 ,
	L0046806 , L0046807 , L0046808 , L0046809 , L0046810 , L0046811 , L0046812 , L0046813 ,
	L0046814 , L0046815 , L0046816 , L0046817 , L0046818 , L0046819 , L0046820 , L0046821 ,
	L0046822 , L0046823 , L0046824 , L0046825 , L0046826 , L0046827 , L0046828 , L0046829 ,
	L0046830 , L0046831 , L0046832 , L0046833 , L0046834 , L0046835 , L0046836 , L0046837 ,
	L0046838 , L0046839 , L0046840 , L0046841 , L0046842 , L0046843 , L0046844 , L0046845 ,
	L0046846 , L0046847 , L0046848 , L0046849 , L0046850 , L0046851 , L0046852 , L0046853 ,
	L0046854 , L0046855 , L0046856 , L0046857 , L0046858 , L0046859 , L0046860 , L0046861 ,
	L0046862 , L0046863 , L0046864 , L0046865 , L0046866 , L0046867 , L0046868 , L0046869 ,
	L0046870 , L0046871 , L0046872 , L0046873 , L0046874 , L0046875 , L0046876 , L0046877 ,
	L0046878 , L0046879 , L0046880 , L0046881 , L0046882 , L0046883 , L0046884 , L0046885 ,
	L0046886 , L0046887 , L0046888 , L0046889 , L0046890 , L0046891 , L0046892 , L0046893 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0046910 , L0046911 , L0046912 , L0046913 , L0046914 , L0046915 , L0046916 , L0046917 ,
	L0046918 , L0046919 , L0046920 , L0046921 , L0046922 , L0046923 , L0046924 , L0046925 ,
	L0046926 , L0046927 , L0046928 , L0046929 , L0046930 , L0046931 , L0046932 , L0046933 ,
	L0046934 , L0046935 , L0046936 , L0046937 , L0046938 , L0046939 , L0046940 , L0046941 ,
	L0046942 , L0046943 , L0046944 , L0046945 , L0046946 , L0046947 , L0046948 , L0046949 ,
	L0046950 , L0046951 , L0046952 , L0046953 , L0046954 , L0046955 , L0046956 , L0046957 ,
	L0046958 , L0046959 , L0046960 , L0046961 , L0046962 , L0046963 , L0046964 , L0046965 ,
	L0046966 , L0046967 , L0046968 , L0046969 , L0046970 , L0046971 , L0046972 , L0046973 ,
	L0046974 , L0046975 , L0046976 , L0046977 , L0046978 , L0046979 , L0046980 , L0046981 ,
	L0046982 , L0046983 , L0046984 , L0046985 , L0046986 , L0046987 , L0046988 , L0046989 ,
	L0046990 , L0046991 , L0046992 , L0046993 , L0046994 , L0046995 , L0046996 , L0046997 ,
	L0046998 , L0046999 , L0047000 , L0047001 , L0047002 , L0047003 , L0047004 , L0047005 ,
	L0047006 , L0047007 , L0047008 , L0047009 , L0047010 , L0047011 , L0047012 , L0047013 ,
	L0047014 , L0047015 , L0047016 , L0047017 , L0047018 , L0047019 , L0047020 , L0047021 ,
	L0047022 , L0047023 , L0047024 , L0047025 , L0047026 , L0047027 , L0047028 , L0047029 ,
	L0047030 , L0047031 , L0047032 , L0047033 , L0047034 , L0047035 , L0047036 , L0047037 ,
	L0047038 , L0047039 , L0047040 , L0047041 , L0047042 , L0047043 , L0047044 , L0047045 ,
	L0047046 , L0047047 , L0047048 , L0047049 , L0047050 , L0047051 , L0047052 , L0047053 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0047070 , L0047071 , L0047072 , L0047073 , L0047074 , L0047075 , L0047076 , L0047077 ,
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	L0047086 , L0047087 , L0047088 , L0047089 , L0047090 , L0047091 , L0047092 , L0047093 ,
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	L0047102 , L0047103 , L0047104 , L0047105 , L0047106 , L0047107 , L0047108 , L0047109 ,
	L0047110 , L0047111 , L0047112 , L0047113 , L0047114 , L0047115 , L0047116 , L0047117 ,
	L0047118 , L0047119 , L0047120 , L0047121 , L0047122 , L0047123 , L0047124 , L0047125 ,
	L0047126 , L0047127 , L0047128 , L0047129 , L0047130 , L0047131 , L0047132 , L0047133 ,
	L0047134 , L0047135 , L0047136 , L0047137 , L0047138 , L0047139 , L0047140 , L0047141 ,
	L0047142 , L0047143 , L0047144 , L0047145 , L0047146 , L0047147 , L0047148 , L0047149 ,
	L0047150 , L0047151 , L0047152 , L0047153 , L0047154 , L0047155 , L0047156 , L0047157 ,
	L0047158 , L0047159 , L0047160 , L0047161 , L0047162 , L0047163 , L0047164 , L0047165 ,
	L0047166 , L0047167 , L0047168 , L0047169 , L0047170 , L0047171 , L0047172 , L0047173 ,
	L0047174 , L0047175 , L0047176 , L0047177 , L0047178 , L0047179 , L0047180 , L0047181 ,
	L0047182 , L0047183 , L0047184 , L0047185 , L0047186 , L0047187 , L0047188 , L0047189 ,
	L0047190 , L0047191 , L0047192 , L0047193 , L0047194 , L0047195 , L0047196 , L0047197 ,
	L0047198 , L0047199 , L0047200 , L0047201 , L0047202 , L0047203 , L0047204 , L0047205 ,
	L0047206 , L0047207 , L0047208 , L0047209 , L0047210 , L0047211 , L0047212 , L0047213 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0047230 , L0047231 , L0047232 , L0047233 , L0047234 , L0047235 , L0047236 , L0047237 ,
	L0047238 , L0047239 , L0047240 , L0047241 , L0047242 , L0047243 , L0047244 , L0047245 ,
	L0047246 , L0047247 , L0047248 , L0047249 , L0047250 , L0047251 , L0047252 , L0047253 ,
	L0047254 , L0047255 , L0047256 , L0047257 , L0047258 , L0047259 , L0047260 , L0047261 ,
	L0047262 , L0047263 , L0047264 , L0047265 , L0047266 , L0047267 , L0047268 , L0047269 ,
	L0047270 , L0047271 , L0047272 , L0047273 , L0047274 , L0047275 , L0047276 , L0047277 ,
	L0047278 , L0047279 , L0047280 , L0047281 , L0047282 , L0047283 , L0047284 , L0047285 ,
	L0047286 , L0047287 , L0047288 , L0047289 , L0047290 , L0047291 , L0047292 , L0047293 ,
	L0047294 , L0047295 , L0047296 , L0047297 , L0047298 , L0047299 , L0047300 , L0047301 ,
	L0047302 , L0047303 , L0047304 , L0047305 , L0047306 , L0047307 , L0047308 , L0047309 ,
	L0047310 , L0047311 , L0047312 , L0047313 , L0047314 , L0047315 , L0047316 , L0047317 ,
	L0047318 , L0047319 , L0047320 , L0047321 , L0047322 , L0047323 , L0047324 , L0047325 ,
	L0047326 , L0047327 , L0047328 , L0047329 , L0047330 , L0047331 , L0047332 , L0047333 ,
	L0047334 , L0047335 , L0047336 , L0047337 , L0047338 , L0047339 , L0047340 , L0047341 ,
	L0047342 , L0047343 , L0047344 , L0047345 , L0047346 , L0047347 , L0047348 , L0047349 ,
	L0047350 , L0047351 , L0047352 , L0047353 , L0047354 , L0047355 , L0047356 , L0047357 ,
	L0047358 , L0047359 , L0047360 , L0047361 , L0047362 , L0047363 , L0047364 , L0047365 ,
	L0047366 , L0047367 , L0047368 , L0047369 , L0047370 , L0047371 , L0047372 , L0047373 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0047390 , L0047391 , L0047392 , L0047393 , L0047394 , L0047395 , L0047396 , L0047397 ,
	L0047398 , L0047399 , L0047400 , L0047401 , L0047402 , L0047403 , L0047404 , L0047405 ,
	L0047406 , L0047407 , L0047408 , L0047409 , L0047410 , L0047411 , L0047412 , L0047413 ,
	L0047414 , L0047415 , L0047416 , L0047417 , L0047418 , L0047419 , L0047420 , L0047421 ,
	L0047422 , L0047423 , L0047424 , L0047425 , L0047426 , L0047427 , L0047428 , L0047429 ,
	L0047430 , L0047431 , L0047432 , L0047433 , L0047434 , L0047435 , L0047436 , L0047437 ,
	L0047438 , L0047439 , L0047440 , L0047441 , L0047442 , L0047443 , L0047444 , L0047445 ,
	L0047446 , L0047447 , L0047448 , L0047449 , L0047450 , L0047451 , L0047452 , L0047453 ,
	L0047454 , L0047455 , L0047456 , L0047457 , L0047458 , L0047459 , L0047460 , L0047461 ,
	L0047462 , L0047463 , L0047464 , L0047465 , L0047466 , L0047467 , L0047468 , L0047469 ,
	L0047470 , L0047471 , L0047472 , L0047473 , L0047474 , L0047475 , L0047476 , L0047477 ,
	L0047478 , L0047479 , L0047480 , L0047481 , L0047482 , L0047483 , L0047484 , L0047485 ,
	L0047486 , L0047487 , L0047488 , L0047489 , L0047490 , L0047491 , L0047492 , L0047493 ,
	L0047494 , L0047495 , L0047496 , L0047497 , L0047498 , L0047499 , L0047500 , L0047501 ,
	L0047502 , L0047503 , L0047504 , L0047505 , L0047506 , L0047507 , L0047508 , L0047509 ,
	L0047510 , L0047511 , L0047512 , L0047513 , L0047514 , L0047515 , L0047516 , L0047517 ,
	L0047518 , L0047519 , L0047520 , L0047521 , L0047522 , L0047523 , L0047524 , L0047525 ,
	L0047526 , L0047527 , L0047528 , L0047529 , L0047530 , L0047531 , L0047532 , L0047533 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0047550 , L0047551 , L0047552 , L0047553 , L0047554 , L0047555 , L0047556 , L0047557 ,
	L0047558 , L0047559 , L0047560 , L0047561 , L0047562 , L0047563 , L0047564 , L0047565 ,
	L0047566 , L0047567 , L0047568 , L0047569 , L0047570 , L0047571 , L0047572 , L0047573 ,
	L0047574 , L0047575 , L0047576 , L0047577 , L0047578 , L0047579 , L0047580 , L0047581 ,
	L0047582 , L0047583 , L0047584 , L0047585 , L0047586 , L0047587 , L0047588 , L0047589 ,
	L0047590 , L0047591 , L0047592 , L0047593 , L0047594 , L0047595 , L0047596 , L0047597 ,
	L0047598 , L0047599 , L0047600 , L0047601 , L0047602 , L0047603 , L0047604 , L0047605 ,
	L0047606 , L0047607 , L0047608 , L0047609 , L0047610 , L0047611 , L0047612 , L0047613 ,
	L0047614 , L0047615 , L0047616 , L0047617 , L0047618 , L0047619 , L0047620 , L0047621 ,
	L0047622 , L0047623 , L0047624 , L0047625 , L0047626 , L0047627 , L0047628 , L0047629 ,
	L0047630 , L0047631 , L0047632 , L0047633 , L0047634 , L0047635 , L0047636 , L0047637 ,
	L0047638 , L0047639 , L0047640 , L0047641 , L0047642 , L0047643 , L0047644 , L0047645 ,
	L0047646 , L0047647 , L0047648 , L0047649 , L0047650 , L0047651 , L0047652 , L0047653 ,
	L0047654 , L0047655 , L0047656 , L0047657 , L0047658 , L0047659 , L0047660 , L0047661 ,
	L0047662 , L0047663 , L0047664 , L0047665 , L0047666 , L0047667 , L0047668 , L0047669 ,
	L0047670 , L0047671 , L0047672 , L0047673 , L0047674 , L0047675 , L0047676 , L0047677 ,
	L0047678 , L0047679 , L0047680 , L0047681 , L0047682 , L0047683 , L0047684 , L0047685 ,
	L0047686 , L0047687 , L0047688 , L0047689 , L0047690 , L0047691 , L0047692 , L0047693 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0047710 , L0047711 , L0047712 , L0047713 , L0047714 , L0047715 , L0047716 , L0047717 ,
	L0047718 , L0047719 , L0047720 , L0047721 , L0047722 , L0047723 , L0047724 , L0047725 ,
	L0047726 , L0047727 , L0047728 , L0047729 , L0047730 , L0047731 , L0047732 , L0047733 ,
	L0047734 , L0047735 , L0047736 , L0047737 , L0047738 , L0047739 , L0047740 , L0047741 ,
	L0047742 , L0047743 , L0047744 , L0047745 , L0047746 , L0047747 , L0047748 , L0047749 ,
	L0047750 , L0047751 , L0047752 , L0047753 , L0047754 , L0047755 , L0047756 , L0047757 ,
	L0047758 , L0047759 , L0047760 , L0047761 , L0047762 , L0047763 , L0047764 , L0047765 ,
	L0047766 , L0047767 , L0047768 , L0047769 , L0047770 , L0047771 , L0047772 , L0047773 ,
	L0047774 , L0047775 , L0047776 , L0047777 , L0047778 , L0047779 , L0047780 , L0047781 ,
	L0047782 , L0047783 , L0047784 , L0047785 , L0047786 , L0047787 , L0047788 , L0047789 ,
	L0047790 , L0047791 , L0047792 , L0047793 , L0047794 , L0047795 , L0047796 , L0047797 ,
	L0047798 , L0047799 , L0047800 , L0047801 , L0047802 , L0047803 , L0047804 , L0047805 ,
	L0047806 , L0047807 , L0047808 , L0047809 , L0047810 , L0047811 , L0047812 , L0047813 ,
	L0047814 , L0047815 , L0047816 , L0047817 , L0047818 , L0047819 , L0047820 , L0047821 ,
	L0047822 , L0047823 , L0047824 , L0047825 , L0047826 , L0047827 , L0047828 , L0047829 ,
	L0047830 , L0047831 , L0047832 , L0047833 , L0047834 , L0047835 , L0047836 , L0047837 ,
	L0047838 , L0047839 , L0047840 , L0047841 , L0047842 , L0047843 , L0047844 , L0047845 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0047862 , L0047863 , L0047864 , L0047865 , L0047866 , L0047867 , L0047868 , L0047869 ,
	L0047870 , L0047871 , L0047872 , L0047873 , L0047874 , L0047875 , L0047876 , L0047877 ,
	L0047878 , L0047879 , L0047880 , L0047881 , L0047882 , L0047883 , L0047884 , L0047885 ,
	L0047886 , L0047887 , L0047888 , L0047889 , STCK5 , STCK6 , STCK7 , STCK8 ,
	STCK9 , STCK10 , STCK11 , STCK12 , STCK13 , STCK14 , STCK15 , STCK16 ,
	STCK18 , STCK19 , STCK20 , STCK21 , STCK22 , STCK23 , STCK24 , STCK25 ,
	STCK26 , STCK27 , STCK28 , STCK29 , STCK30 , STCK31 , STCK32 , STCK33 ,
	STCK34 , L0047890 , L0047891 , L0047892 , L0047893 , L0047894 , L0047895 , L0047896 ,
	L0047897 , L0047898 , L0047899 , L0047900 , L0047901 , L0047902 , L0047903 , L0047904 ,
	L0047905 , L0047906 , L0047907 , L0047908 , L0047909 , L0047910 , L0047911 , L0047912 ,
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	L0047937 , L0047938 , L0047939 , L0047940 , L0047941 , L0047942 , L0047943 , L0047944 ,
	L0047945 , L0047946 , L0047947 , L0047948 , L0047949 , L0047950 , L0047951 , L0047952 ,
	L0047953 , L0047954 , L0047955 , L0047956 , L0047957 , L0047958 , L0047959 , L0047960 ,
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID URBAN POP SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

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URBAN ID   URBAN POP                                  SOURCE IDs
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           L0047054    , L0047055    , L0047056    , L0047057    , L0047058    , L0047059    , L0047060    , L0047061    ,
           L0047062    , L0047063    , L0047064    , L0047065    , L0047066    , L0047067    , L0047068    , L0047069    ,
           L0047070    , L0047071    , L0047072    , L0047073    , L0047074    , L0047075    , L0047076    , L0047077    ,
           L0047078    , L0047079    , L0047080    , L0047081    , L0047082    , L0047083    , L0047084    , L0047085    ,
           L0047086    , L0047087    , L0047088    , L0047089    , L0047090    , L0047091    , L0047092    , L0047093    ,
           L0047094    , L0047095    , L0047096    , L0047097    , L0047098    , L0047099    , L0047100    , L0047101    ,
           L0047102    , L0047103    , L0047104    , L0047105    , L0047106    , L0047107    , L0047108    , L0047109    ,
           L0047110    , L0047111    , L0047112    , L0047113    , L0047114    , L0047115    , L0047116    , L0047117    ,
           L0047118    , L0047119    , L0047120    , L0047121    , L0047122    , L0047123    , L0047124    , L0047125    ,
           L0047126    , L0047127    , L0047128    , L0047129    , L0047130    , L0047131    , L0047132    , L0047133    ,
           L0047134    , L0047135    , L0047136    , L0047137    , L0047138    , L0047139    , L0047140    , L0047141    ,
           L0047142    , L0047143    , L0047144    , L0047145    , L0047146    , L0047147    , L0047148    , L0047149    ,
           L0047150    , L0047151    , L0047152    , L0047153    , L0047154    , L0047155    , L0047156    , L0047157    ,
           L0047158    , L0047159    , L0047160    , L0047161    , L0047162    , L0047163    , L0047164    , L0047165    ,
           L0047166    , L0047167    , L0047168    , L0047169    , L0047170    , L0047171    , L0047172    , L0047173    ,
           L0047174    , L0047175    , L0047176    , L0047177    , L0047178    , L0047179    , L0047180    , L0047181    ,
           L0047182    , L0047183    , L0047184    , L0047185    , L0047186    , L0047187    , L0047188    , L0047189    ,
           L0047190    , L0047191    , L0047192    , L0047193    , L0047194    , L0047195    , L0047196    , L0047197    ,
           L0047198    , L0047199    , L0047200    , L0047201    , L0047202    , L0047203    , L0047204    , L0047205    ,
           L0047206    , L0047207    , L0047208    , L0047209    , L0047210    , L0047211    , L0047212    , L0047213    ,

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 2nd 14 years                  ***        05/26/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 2nd 14 years                         ***        07:57:00
                                                                                                                  PAGE 132
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0047214 , L0047215 , L0047216 , L0047217 , L0047218 , L0047219 , L0047220 , L0047221 ,
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		L0047230 , L0047231 , L0047232 , L0047233 , L0047234 , L0047235 , L0047236 , L0047237 ,
		L0047238 , L0047239 , L0047240 , L0047241 , L0047242 , L0047243 , L0047244 , L0047245 ,
		L0047246 , L0047247 , L0047248 , L0047249 , L0047250 , L0047251 , L0047252 , L0047253 ,
		L0047254 , L0047255 , L0047256 , L0047257 , L0047258 , L0047259 , L0047260 , L0047261 ,
		L0047262 , L0047263 , L0047264 , L0047265 , L0047266 , L0047267 , L0047268 , L0047269 ,
		L0047270 , L0047271 , L0047272 , L0047273 , L0047274 , L0047275 , L0047276 , L0047277 ,
		L0047278 , L0047279 , L0047280 , L0047281 , L0047282 , L0047283 , L0047284 , L0047285 ,
		L0047286 , L0047287 , L0047288 , L0047289 , L0047290 , L0047291 , L0047292 , L0047293 ,
		L0047294 , L0047295 , L0047296 , L0047297 , L0047298 , L0047299 , L0047300 , L0047301 ,
		L0047302 , L0047303 , L0047304 , L0047305 , L0047306 , L0047307 , L0047308 , L0047309 ,
		L0047310 , L0047311 , L0047312 , L0047313 , L0047314 , L0047315 , L0047316 , L0047317 ,
		L0047318 , L0047319 , L0047320 , L0047321 , L0047322 , L0047323 , L0047324 , L0047325 ,
		L0047326 , L0047327 , L0047328 , L0047329 , L0047330 , L0047331 , L0047332 , L0047333 ,
		L0047334 , L0047335 , L0047336 , L0047337 , L0047338 , L0047339 , L0047340 , L0047341 ,
		L0047342 , L0047343 , L0047344 , L0047345 , L0047346 , L0047347 , L0047348 , L0047349 ,
		L0047350 , L0047351 , L0047352 , L0047353 , L0047354 , L0047355 , L0047356 , L0047357 ,
		L0047358 , L0047359 , L0047360 , L0047361 , L0047362 , L0047363 , L0047364 , L0047365 ,
		L0047366 , L0047367 , L0047368 , L0047369 , L0047370 , L0047371 , L0047372 , L0047373 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0047374 , L0047375 , L0047376 , L0047377 , L0047378 , L0047379 , L0047380 , L0047381 ,
		L0047382 , L0047383 , L0047384 , L0047385 , L0047386 , L0047387 , L0047388 , L0047389 ,
		L0047390 , L0047391 , L0047392 , L0047393 , L0047394 , L0047395 , L0047396 , L0047397 ,
		L0047398 , L0047399 , L0047400 , L0047401 , L0047402 , L0047403 , L0047404 , L0047405 ,
		L0047406 , L0047407 , L0047408 , L0047409 , L0047410 , L0047411 , L0047412 , L0047413 ,
		L0047414 , L0047415 , L0047416 , L0047417 , L0047418 , L0047419 , L0047420 , L0047421 ,
		L0047422 , L0047423 , L0047424 , L0047425 , L0047426 , L0047427 , L0047428 , L0047429 ,
		L0047430 , L0047431 , L0047432 , L0047433 , L0047434 , L0047435 , L0047436 , L0047437 ,
		L0047438 , L0047439 , L0047440 , L0047441 , L0047442 , L0047443 , L0047444 , L0047445 ,
		L0047446 , L0047447 , L0047448 , L0047449 , L0047450 , L0047451 , L0047452 , L0047453 ,
		L0047454 , L0047455 , L0047456 , L0047457 , L0047458 , L0047459 , L0047460 , L0047461 ,
		L0047462 , L0047463 , L0047464 , L0047465 , L0047466 , L0047467 , L0047468 , L0047469 ,
		L0047470 , L0047471 , L0047472 , L0047473 , L0047474 , L0047475 , L0047476 , L0047477 ,
		L0047478 , L0047479 , L0047480 , L0047481 , L0047482 , L0047483 , L0047484 , L0047485 ,
		L0047486 , L0047487 , L0047488 , L0047489 , L0047490 , L0047491 , L0047492 , L0047493 ,
		L0047494 , L0047495 , L0047496 , L0047497 , L0047498 , L0047499 , L0047500 , L0047501 ,
		L0047502 , L0047503 , L0047504 , L0047505 , L0047506 , L0047507 , L0047508 , L0047509 ,
		L0047510 , L0047511 , L0047512 , L0047513 , L0047514 , L0047515 , L0047516 , L0047517 ,
		L0047518 , L0047519 , L0047520 , L0047521 , L0047522 , L0047523 , L0047524 , L0047525 ,
		L0047526 , L0047527 , L0047528 , L0047529 , L0047530 , L0047531 , L0047532 , L0047533 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0047534 , L0047535 , L0047536 , L0047537 , L0047538 , L0047539 , L0047540 , L0047541 ,
		L0047542 , L0047543 , L0047544 , L0047545 , L0047546 , L0047547 , L0047548 , L0047549 ,
		L0047550 , L0047551 , L0047552 , L0047553 , L0047554 , L0047555 , L0047556 , L0047557 ,
		L0047558 , L0047559 , L0047560 , L0047561 , L0047562 , L0047563 , L0047564 , L0047565 ,
		L0047566 , L0047567 , L0047568 , L0047569 , L0047570 , L0047571 , L0047572 , L0047573 ,
		L0047574 , L0047575 , L0047576 , L0047577 , L0047578 , L0047579 , L0047580 , L0047581 ,
		L0047582 , L0047583 , L0047584 , L0047585 , L0047586 , L0047587 , L0047588 , L0047589 ,
		L0047590 , L0047591 , L0047592 , L0047593 , L0047594 , L0047595 , L0047596 , L0047597 ,
		L0047598 , L0047599 , L0047600 , L0047601 , L0047602 , L0047603 , L0047604 , L0047605 ,
		L0047606 , L0047607 , L0047608 , L0047609 , L0047610 , L0047611 , L0047612 , L0047613 ,
		L0047614 , L0047615 , L0047616 , L0047617 , L0047618 , L0047619 , L0047620 , L0047621 ,
		L0047622 , L0047623 , L0047624 , L0047625 , L0047626 , L0047627 , L0047628 , L0047629 ,
		L0047630 , L0047631 , L0047632 , L0047633 , L0047634 , L0047635 , L0047636 , L0047637 ,
		L0047638 , L0047639 , L0047640 , L0047641 , L0047642 , L0047643 , L0047644 , L0047645 ,
		L0047646 , L0047647 , L0047648 , L0047649 , L0047650 , L0047651 , L0047652 , L0047653 ,
		L0047654 , L0047655 , L0047656 , L0047657 , L0047658 , L0047659 , L0047660 , L0047661 ,
		L0047662 , L0047663 , L0047664 , L0047665 , L0047666 , L0047667 , L0047668 , L0047669 ,
		L0047670 , L0047671 , L0047672 , L0047673 , L0047674 , L0047675 , L0047676 , L0047677 ,
		L0047678 , L0047679 , L0047680 , L0047681 , L0047682 , L0047683 , L0047684 , L0047685 ,
		L0047686 , L0047687 , L0047688 , L0047689 , L0047690 , L0047691 , L0047692 , L0047693 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0047694 , L0047695 , L0047696 , L0047697 , L0047698 , L0047699 , L0047700 , L0047701 ,
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		L0047710 , L0047711 , L0047712 , L0047713 , L0047714 , L0047715 , L0047716 , L0047717 ,
		L0047718 , L0047719 , L0047720 , L0047721 , L0047722 , L0047723 , L0047724 , L0047725 ,
		L0047726 , L0047727 , L0047728 , L0047729 , L0047730 , L0047731 , L0047732 , L0047733 ,
		L0047734 , L0047735 , L0047736 , L0047737 , L0047738 , L0047739 , L0047740 , L0047741 ,
		L0047742 , L0047743 , L0047744 , L0047745 , L0047746 , L0047747 , L0047748 , L0047749 ,
		L0047750 , L0047751 , L0047752 , L0047753 , L0047754 , L0047755 , L0047756 , L0047757 ,
		L0047758 , L0047759 , L0047760 , L0047761 , L0047762 , L0047763 , L0047764 , L0047765 ,
		L0047766 , L0047767 , L0047768 , L0047769 , L0047770 , L0047771 , L0047772 , L0047773 ,
		L0047774 , L0047775 , L0047776 , L0047777 , L0047778 , L0047779 , L0047780 , L0047781 ,
		L0047782 , L0047783 , L0047784 , L0047785 , L0047786 , L0047787 , L0047788 , L0047789 ,
		L0047790 , L0047791 , L0047792 , L0047793 , L0047794 , L0047795 , L0047796 , L0047797 ,
		L0047798 , L0047799 , L0047800 , L0047801 , L0047802 , L0047803 , L0047804 , L0047805 ,
		L0047806 , L0047807 , L0047808 , L0047809 , L0047810 , L0047811 , L0047812 , L0047813 ,
		L0047814 , L0047815 , L0047816 , L0047817 , L0047818 , L0047819 , L0047820 , L0047821 ,
		L0047822 , L0047823 , L0047824 , L0047825 , L0047826 , L0047827 , L0047828 , L0047829 ,
		L0047830 , L0047831 , L0047832 , L0047833 , L0047834 , L0047835 , L0047836 , L0047837 ,
		L0047838 , L0047839 , L0047840 , L0047841 , L0047842 , L0047843 , L0047844 , L0047845 ,
		L0047846 , L0047847 , L0047848 , L0047849 , L0047850 , L0047851 , L0047852 , L0047853 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
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		L0047870 , L0047871 , L0047872 , L0047873 , L0047874 , L0047875 , L0047876 , L0047877 ,
		L0047878 , L0047879 , L0047880 , L0047881 , L0047882 , L0047883 , L0047884 , L0047885 ,
		L0047886 , L0047887 , L0047888 , L0047889 , STCK5 , STCK6 , STCK7 , STCK8 ,
		STCK9 , STCK10 , STCK11 , STCK12 , STCK13 , STCK14 , STCK15 , STCK16 ,
		STCK18 , STCK19 , STCK20 , STCK21 , STCK22 , STCK23 , STCK24 , STCK25 ,
		STCK26 , STCK27 , STCK28 , STCK29 , STCK30 , STCK31 , STCK32 , STCK33 ,
		STCK34 , L0047890 , L0047891 , L0047892 , L0047893 , L0047894 , L0047895 , L0047896 ,
		L0047897 , L0047898 , L0047899 , L0047900 , L0047901 , L0047902 , L0047903 , L0047904 ,
		L0047905 , L0047906 , L0047907 , L0047908 , L0047909 , L0047910 , L0047911 , L0047912 ,
		L0047913 , L0047914 , L0047915 , L0047916 , L0047917 , L0047918 , L0047919 , L0047920 ,
		L0047921 , L0047922 , L0047923 , L0047924 , L0047925 , L0047926 , L0047927 , L0047928 ,
		L0047929 , L0047930 , L0047931 , L0047932 , L0047933 , L0047934 , L0047935 , L0047936 ,
		L0047937 , L0047938 , L0047939 , L0047940 , L0047941 , L0047942 , L0047943 , L0047944 ,
		L0047945 , L0047946 , L0047947 , L0047948 , L0047949 , L0047950 , L0047951 , L0047952 ,
		L0047953 , L0047954 , L0047955 , L0047956 , L0047957 , L0047958 , L0047959 , L0047960 ,
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		L0047969 , L0047970 , L0047971 , L0047972 , L0047973 , L0047974 , L0047975 , L0047976 ,
		L0047977 , L0047978 , L0047979 , L0047980 , L0047981 , L0047982 , L0047983 , L0047984 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
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		L0048001 , L0048002 , L0048003 , L0048004 , L0048005 , L0048006 , L0048007 , L0048008 ,
		L0048009 , L0048010 , L0048011 , L0048012 , L0048013 , L0048014 , L0048140 , L0048141 ,
		L0048142 , L0048143 , L0048144 , L0048145 , L0048146 , L0048147 , L0048148 , L0048149 ,
		L0048150 , L0048151 , L0048152 , L0048153 , L0048154 , L0048155 , L0048156 , L0048157 ,
		L0048158 , L0048159 , L0048160 , L0048161 , L0048162 , L0048163 , L0048164 , L0048165 ,
		L0048166 , L0048167 , L0048168 , L0048169 , L0048170 , L0048171 , L0048172 , L0048173 ,
		L0048174 , L0048175 , L0048176 , L0048177 , L0048178 , L0048179 , L0048180 , L0048181 ,
		L0048182 , L0048183 , L0048184 , L0048185 , L0048186 , L0048187 , L0048188 , L0048189 ,
		L0048190 , L0048191 , L0048192 , L0048193 , L0048194 , L0048195 , L0048196 , L0048197 ,
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		L0048214 , L0048215 , L0048216 , L0048217 , L0048218 , L0048219 , L0048220 , L0048221 ,
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		L0048230 , L0048231 , L0048232 , L0048233 , L0048234 , L0048235 , L0048236 , L0048237 ,
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		L0048246 , L0048247 , L0048248 , L0048249 , L0048250 , L0048251 , L0048252 , L0048253 ,
		L0048254 , L0048255 , L0048256 , L0048257 , L0048258 , L0048259 , L0048260 , L0048261 ,
		L0048262 , L0048263 , L0048264 , L0048265 , L0048266 , L0048267 , L0048268 , L0048269 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0048270 , L0048271 , L0048272 , L0048273 , L0048274 , L0048275 , L0048276 , L0048277 ,
		L0048278 , L0048279 , L0048280 , L0048281 , L0048282 , L0048283 , L0048284 , L0048285 ,
		L0048286 , L0048287 , L0048288 , L0048289 , L0048290 , L0048291 , L0048292 , L0048293 ,
		L0048294 , L0048295 , L0048296 , L0048297 , L0048298 , L0048299 , L0048300 , L0048301 ,
		L0048302 , L0048303 , L0048304 , L0048305 , L0048306 , L0048307 , L0048308 , L0048309 ,
		L0048310 , L0048311 , L0048312 , L0048313 , L0048314 , L0048315 , L0048316 , L0048317 ,
		L0048318 , L0048319 , L0048320 , L0048321 , L0048322 , L0048323 , L0048324 , L0048325 ,
		L0048326 , L0048327 , L0048328 , L0048329 , L0048330 , L0048331 , L0048332 , L0048333 ,
		L0048334 , L0048335 , L0048336 , L0048337 , L0048338 , L0048339 , L0048340 , L0048341 ,
		L0048342 , L0048343 , L0048344 , L0048345 , L0048346 , L0048347 , L0048348 , L0048349 ,
		L0048350 , L0048351 , L0048352 , L0048353 , L0048354 , L0048355 , L0048356 , L0048357 ,
		L0048358 , L0048359 , L0048360 , L0048361 , L0048362 , L0048363 , L0048364 , L0048365 ,
		L0048366 , L0048367 , L0048368 , L0048369 , L0048370 , L0048371 , L0048372 , L0048373 ,
		L0048374 , L0048375 , L0048376 , L0048377 , L0048378 , L0048379 , L0048380 , L0048381 ,
		L0048382 , L0048383 , L0048384 , L0048385 , L0048386 , L0048387 , L0048388 , L0048389 ,
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		L0048398 , L0048399 , L0048400 , L0048401 , L0048402 , L0048403 , L0048404 , L0048405 ,
		L0048406 , L0048407 , L0048408 , L0048409 , L0048410 , L0048411 , L0048412 , L0048413 ,
		L0048414 , L0048415 , L0048416 , L0048417 , L0048418 , L0048419 , L0048420 , L0048421 ,
		L0048422 , L0048423 , L0048424 , L0048425 , L0048426 , L0048427 , L0048428 , L0048429 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0048430 , L0048431 , L0048432 , L0048433 , L0048434 , L0048435 , L0048436 , L0048437 ,
		L0048438 , L0048439 , L0048440 , L0048441 , L0048442 , L0048443 , L0048444 , L0048445 ,
		L0048446 , L0048447 , L0048448 , L0048449 , L0048450 , L0048451 , L0048452 , L0048453 ,
		L0048454 , L0048455 , L0048456 , L0048457 , L0048458 , L0048459 , L0048460 , L0048461 ,
		L0048462 , L0048463 , L0048464 , L0048465 , L0048466 , L0048467 , L0048468 , L0048469 ,
		L0048470 , L0048471 , L0048472 , L0048473 , L0048474 , L0048475 , L0048476 , L0048477 ,
		L0048478 , L0048479 , L0048480 , L0048481 , L0048482 , L0048483 , L0048484 , L0048485 ,
		L0048486 , L0048487 , L0048488 , L0048489 , L0048490 , L0048491 , L0048492 , L0048493 ,
		L0048494 , L0048495 , L0048496 , L0048497 , L0048498 , L0048499 , L0048500 , L0048501 ,
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		L0048510 , L0048511 , L0048512 , L0048513 , L0048514 , L0048515 , L0048516 , L0048517 ,
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		L0048526 , L0048527 , L0048528 , L0048529 , L0048530 , L0048531 , L0048532 , L0048533 ,
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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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L0049974 , L0049975 , L0049976 , L0049977 , L0049978 , L0049979 , L0049980 , L0049981 ,

L0049982 , L0049983 , L0049984 , L0049985 , L0049986 , L0049987 , L0049988 , L0049989 ,

L0049990 , L0049991 , L0049992 , L0049993 , L0049994 , L0049995 , L0049996 , L0049997 ,

L0049998 , L0049999 , L0050000 , L0050001 , L0050002 , L0050003 , L0050004 , L0050005 ,

L0050006 , L0050007 , L0050008 , L0050009 , L0050010 , L0050011 , L0050012 , L0050013 ,

L0050014 , L0050015 , L0050016 , L0050017 , L0050018 , L0050019 , L0050020 , L0050021 ,

L0050022 , L0050023 , L0050024 , L0050025 , L0050026 , L0050027 , L0050028 , L0050029 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0050030 , L0050031 , L0050032 , L0050033 , L0050034 , L0050035 , L0050036 , L0050037 ,

L0050038 , L0050039 , L0050040 , L0050041 , L0050042 , L0050043 , L0050044 , L0050045 ,

L0050046 , L0050047 , L0050048 , L0050049 , L0050050 , L0050051 , L0050052 , L0050053 ,

L0050054 , L0050055 , L0050056 , L0050057 , L0050058 , L0050059 , L0050060 , L0050061 ,

L0050062 , L0050063 , L0050064 , L0050065 , L0050066 , L0050067 , L0050068 , L0050069 ,

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK1

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	142.7,	83.5,	-3.6,	-26.8,	2	9.1,	146.8,	103.3,	-9.4,	-19.7,
3	9.1,	146.5,	119.9,	-15.0,	-11.9,	4	9.1,	141.6,	132.9,	-20.1,	-3.9,
5	9.1,	132.5,	141.9,	-24.6,	4.3,	6	9.1,	119.3,	146.5,	-28.3,	12.4,
7	9.1,	102.6,	146.7,	-31.2,	20.1,	8	9.1,	82.7,	142.5,	-33.1,	27.2,
9	9.1,	61.2,	134.3,	-34.1,	33.0,	10	9.1,	83.5,	142.7,	-44.6,	38.2,
11	9.1,	103.3,	146.8,	-53.8,	42.2,	12	9.1,	119.9,	146.5,	-61.3,	45.0,
13	9.1,	132.9,	141.6,	-67.0,	46.4,	14	9.1,	141.9,	132.5,	-70.6,	46.4,
15	9.1,	146.5,	119.3,	-72.1,	44.9,	16	9.1,	146.7,	102.6,	-71.4,	42.1,

17	9.1,	142.5,	82.7,	-68.5,	38.1,	18	9.1,	134.3,	61.2,	-63.6,	33.1,
19	9.1,	142.7,	83.5,	-79.9,	26.8,	20	9.1,	146.8,	103.3,	-93.9,	19.7,
21	9.1,	146.5,	119.9,	-104.9,	11.9,	22	9.1,	141.6,	132.9,	-112.8,	3.9,
23	9.1,	132.5,	141.9,	-117.3,	-4.3,	24	9.1,	119.3,	146.5,	-118.2,	-12.4,
25	9.1,	102.6,	146.7,	-115.5,	-20.1,	26	9.1,	82.7,	142.5,	-109.3,	-27.2,
27	9.1,	61.2,	134.3,	-100.2,	-33.0,	28	9.1,	83.5,	142.7,	-98.1,	-38.2,
29	9.1,	103.3,	146.8,	-93.1,	-42.2,	30	9.1,	119.9,	146.5,	-85.2,	-45.0,
31	9.1,	132.9,	141.6,	-74.7,	-46.4,	32	9.1,	141.9,	132.5,	-61.9,	-46.4,
33	9.1,	146.5,	119.3,	-47.3,	-44.9,	34	9.1,	146.7,	102.6,	-31.2,	-42.1,
35	9.1,	142.5,	82.7,	-14.2,	-38.1,	36	9.1,	134.3,	61.2,	2.4,	-33.1,

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	46.0,	67.3,	-32.5,	21.5,	2	9.1,	55.1,	71.0,	-38.2,	21.3,
3	9.1,	62.6,	72.5,	-42.7,	20.4,	4	9.1,	68.2,	71.8,	-45.9,	18.9,
5	9.1,	71.8,	68.9,	-47.8,	16.8,	6	9.1,	73.1,	63.9,	-48.1,	14.2,
7	9.1,	72.2,	57.0,	-47.0,	11.2,	8	9.1,	69.1,	48.3,	-44.5,	7.9,
9	9.1,	63.9,	38.2,	-40.6,	4.3,	10	9.1,	67.3,	46.0,	-44.5,	1.1,
11	9.1,	71.0,	55.1,	-48.8,	-2.7,	12	9.1,	72.5,	62.6,	-51.7,	-6.5,
13	9.1,	71.8,	68.2,	-53.0,	-10.1,	14	9.1,	68.9,	71.8,	-52.7,	-13.3,
15	9.1,	63.9,	73.1,	-50.8,	-16.2,	16	9.1,	57.0,	72.2,	-47.3,	-18.6,
17	9.1,	48.3,	69.1,	-42.4,	-20.4,	18	9.1,	38.2,	63.9,	-36.2,	-21.5,
19	9.1,	46.0,	67.3,	-34.8,	-21.5,	20	9.1,	55.1,	71.0,	-32.8,	-21.3,
21	9.1,	62.6,	72.5,	-29.8,	-20.4,	22	9.1,	68.2,	71.8,	-25.8,	-18.9,
23	9.1,	71.8,	68.9,	-21.1,	-16.8,	24	9.1,	73.1,	63.9,	-15.8,	-14.2,
25	9.1,	72.2,	57.0,	-9.9,	-11.2,	26	9.1,	69.1,	48.3,	-3.8,	-7.9,
27	9.1,	63.9,	38.2,	2.4,	-4.3,	28	9.1,	67.3,	46.0,	-1.5,	-1.1,
29	9.1,	71.0,	55.1,	-6.3,	2.7,	30	9.1,	72.5,	62.6,	-10.9,	6.5,
31	9.1,	71.8,	68.2,	-15.2,	10.1,	32	9.1,	68.9,	71.8,	-19.1,	13.3,
33	9.1,	63.9,	73.1,	-22.3,	16.2,	34	9.1,	57.0,	72.2,	-24.9,	18.6,
35	9.1,	48.3,	69.1,	-26.7,	20.4,	36	9.1,	38.2,	63.9,	-27.7,	21.5,

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	74.7,	54.0,	-53.7,	-6.4,	2	9.1,	78.7,	63.6,	-56.9,	-10.9,
3	9.1,	80.4,	71.2,	-58.4,	-15.1,	4	9.1,	150.5,	143.5,	10.8,	15.8,
5	9.1,	142.5,	151.6,	2.7,	29.8,	6	9.1,	130.2,	155.1,	-5.4,	42.8,
7	9.1,	113.9,	153.8,	-13.4,	54.6,	8	9.1,	53.6,	74.7,	-40.4,	-27.1,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	54.0,	74.7,	-30.9,	-26.7,
11	9.1,	63.6,	78.7,	-28.4,	-25.2,	12	9.1,	71.2,	80.4,	-25.1,	-22.9,
13	9.1,	76.7,	79.6,	-21.0,	-19.9,	14	9.1,	151.6,	142.5,	-101.0,	78.5,
15	9.1,	155.1,	130.2,	-107.9,	72.1,	16	9.1,	153.8,	113.9,	-111.6,	63.5,
17	9.1,	147.9,	94.2,	-111.8,	53.0,	18	9.1,	137.5,	72.4,	-109.5,	40.8,
19	9.1,	146.8,	94.8,	-126.9,	27.3,	20	9.1,	152.7,	114.7,	-140.4,	13.2,
21	9.1,	153.9,	131.1,	-149.6,	-1.3,	22	9.1,	150.5,	143.5,	-154.3,	-15.8,
23	9.1,	142.5,	151.6,	-154.3,	-29.8,	24	9.1,	130.2,	155.1,	-149.7,	-42.8,
25	9.1,	113.9,	153.8,	-140.4,	-54.6,	26	9.1,	53.6,	74.7,	-34.3,	27.1,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	54.0,	74.7,	-43.7,	26.7,
29	9.1,	63.6,	78.7,	-50.3,	25.2,	30	9.1,	71.2,	80.4,	-55.3,	22.9,

31	9.1,	76.7,	79.6,	-58.6,	19.9,	32	9.1,	151.6,	142.5,	-41.5,	-78.5,
33	9.1,	155.1,	130.2,	-22.3,	-72.1,	34	9.1,	153.8,	113.9,	-2.3,	-63.5,
35	9.1,	147.9,	94.2,	17.7,	-53.0,	36	9.1,	68.3,	42.8,	-48.8,	-1.7,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	146.8,	94.8,	16.8,	59.6,	2	9.1,	152.7,	114.7,	-4.5,	69.7,
3	9.1,	153.9,	131.1,	-25.6,	77.7,	4	9.1,	83.6,	79.5,	-59.4,	-19.5,
5	9.1,	80.2,	83.1,	-57.5,	-22.7,	6	9.1,	74.3,	84.1,	-53.8,	-25.1,
7	9.1,	66.1,	82.6,	-48.5,	-26.7,	8	9.1,	56.0,	78.6,	-41.8,	-27.6,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	55.1,	78.8,	-32.3,	-26.8,
11	9.1,	114.7,	152.7,	-146.0,	52.9,	12	9.1,	131.1,	153.9,	-154.7,	40.0,
13	9.1,	143.5,	150.5,	-158.6,	25.9,	14	9.1,	151.6,	142.5,	-157.7,	10.9,
15	9.1,	155.1,	130.2,	-152.1,	-4.3,	16	9.1,	153.8,	113.9,	-141.8,	-19.4,
17	9.1,	147.9,	94.2,	-127.2,	-33.9,	18	9.1,	137.5,	72.4,	-109.5,	-47.4,
19	9.1,	146.8,	94.8,	-111.5,	-59.6,	20	9.1,	152.7,	114.7,	-110.2,	-69.7,
21	9.1,	153.9,	131.1,	-105.5,	-77.7,	22	9.1,	83.6,	79.5,	-20.1,	19.5,
23	9.1,	80.2,	83.1,	-25.6,	22.7,	24	9.1,	74.3,	84.1,	-30.3,	25.1,
25	9.1,	66.1,	82.6,	-34.1,	26.7,	26	9.1,	56.0,	78.6,	-36.8,	27.6,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	55.1,	78.8,	-46.5,	26.8,
29	9.1,	114.7,	152.7,	-6.6,	-52.9,	30	9.1,	131.1,	153.9,	0.8,	-40.0,
31	9.1,	143.5,	150.5,	8.1,	-25.9,	32	9.1,	151.6,	142.5,	15.2,	-10.9,
33	9.1,	84.1,	74.3,	-62.2,	11.8,	34	9.1,	82.6,	66.1,	-59.8,	7.2,
35	9.1,	78.6,	56.0,	-55.6,	2.5,	36	9.1,	72.2,	44.1,	-49.6,	-2.3,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK5

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	142.7,	83.5,	-13.4,	31.6,	2	9.1,	146.8,	103.3,	-29.2,	36.2,
3	9.1,	146.5,	119.9,	-44.2,	39.6,	4	9.1,	141.6,	132.9,	-57.8,	41.8,
5	9.1,	132.5,	141.9,	-69.6,	42.8,	6	9.1,	119.3,	146.5,	-79.4,	42.4,
7	9.1,	102.6,	146.7,	-86.7,	40.8,	8	9.1,	82.7,	142.5,	-91.4,	37.9,
9	9.1,	61.2,	134.3,	-93.3,	33.5,	10	9.1,	83.5,	142.7,	-103.0,	28.4,
11	9.1,	103.3,	146.8,	-109.6,	22.4,	12	9.1,	119.9,	146.5,	-112.8,	15.8,
13	9.1,	132.9,	141.6,	-112.6,	8.7,	14	9.1,	141.9,	132.5,	-109.0,	1.3,
15	9.1,	146.5,	119.3,	-102.1,	-6.1,	16	9.1,	146.7,	102.6,	-92.1,	-13.4,
17	9.1,	142.5,	82.7,	-79.3,	-20.2,	18	9.1,	134.3,	61.2,	-64.0,	-26.2,
19	9.1,	142.7,	83.5,	-70.1,	-31.6,	20	9.1,	146.8,	103.3,	-74.1,	-36.2,
21	9.1,	146.5,	119.9,	-75.7,	-39.6,	22	9.1,	141.6,	132.9,	-75.1,	-41.8,
23	9.1,	132.5,	141.9,	-72.2,	-42.8,	24	9.1,	119.3,	146.5,	-67.1,	-42.4,
25	9.1,	102.6,	146.7,	-60.0,	-40.8,	26	9.1,	82.7,	142.5,	-51.1,	-37.9,
27	9.1,	61.2,	134.3,	-41.0,	-33.5,	28	9.1,	83.5,	142.7,	-39.7,	-28.4,

29	9.1,	103.3,	146.8,	-37.2,	-22.4,	30	9.1,	119.9,	146.5,	-33.6,	-15.8,
31	9.1,	132.9,	141.6,	-29.0,	-8.7,	32	9.1,	141.9,	132.5,	-23.5,	-1.3,
33	9.1,	146.5,	119.3,	-17.2,	6.1,	34	9.1,	146.7,	102.6,	-10.5,	13.4,
35	9.1,	142.5,	82.7,	-3.4,	20.2,	36	9.1,	134.3,	61.2,	2.9,	26.2,

SOURCE ID: STCK6

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	145.1,	85.7,	-3.0,	-22.9,	2	9.1,	149.4,	105.4,	-9.6,	-15.9,
3	9.1,	149.2,	121.9,	-15.9,	-8.3,	4	9.1,	144.5,	134.8,	-21.8,	-0.5,
5	9.1,	135.3,	143.5,	-26.9,	7.4,	6	9.1,	122.1,	147.9,	-31.3,	15.0,
7	9.1,	105.1,	147.8,	-34.7,	22.2,	8	9.1,	85.0,	143.2,	-37.1,	28.7,
9	9.1,	63.9,	136.4,	-38.8,	35.1,	10	9.1,	85.7,	145.1,	-49.6,	39.8,
11	9.1,	105.4,	149.4,	-58.9,	43.1,	12	9.1,	121.9,	149.2,	-66.3,	45.0,
13	9.1,	134.8,	144.5,	-71.8,	45.6,	14	9.1,	143.5,	135.3,	-75.1,	44.8,
15	9.1,	147.9,	122.1,	-76.1,	42.6,	16	9.1,	147.8,	105.1,	-74.8,	39.2,
17	9.1,	143.2,	85.0,	-71.2,	34.5,	18	9.1,	136.4,	63.9,	-67.0,	29.4,
19	9.1,	145.1,	85.7,	-82.7,	22.9,	20	9.1,	149.4,	105.4,	-95.8,	15.9,
21	9.1,	149.2,	121.9,	-106.0,	8.3,	22	9.1,	144.5,	134.8,	-113.0,	0.5,
23	9.1,	135.3,	143.5,	-116.6,	-7.4,	24	9.1,	122.1,	147.9,	-116.6,	-15.0,
25	9.1,	105.1,	147.8,	-113.1,	-22.2,	26	9.1,	85.0,	143.2,	-106.1,	-28.7,
27	9.1,	63.9,	136.4,	-97.5,	-35.1,	28	9.1,	85.7,	145.1,	-95.5,	-39.8,
29	9.1,	105.4,	149.4,	-90.6,	-43.1,	30	9.1,	121.9,	149.2,	-82.9,	-45.0,
31	9.1,	134.8,	144.5,	-72.7,	-45.6,	32	9.1,	143.5,	135.3,	-60.3,	-44.8,
33	9.1,	147.9,	122.1,	-46.0,	-42.6,	34	9.1,	147.8,	105.1,	-30.4,	-39.2,
35	9.1,	143.2,	85.0,	-13.8,	-34.5,	36	9.1,	136.4,	63.9,	3.2,	-29.4,

SOURCE ID: STCK7

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	145.1,	85.7,	-13.2,	36.7,	2	9.1,	149.4,	105.4,	-30.1,	41.1,
3	9.1,	149.2,	121.9,	-46.0,	44.3,	4	9.1,	144.5,	134.8,	-60.5,	46.1,
5	9.1,	135.3,	143.5,	-73.1,	46.5,	6	9.1,	122.1,	147.9,	-83.6,	45.5,
7	9.1,	105.1,	147.8,	-91.5,	43.1,	8	9.1,	85.0,	143.2,	-96.6,	39.4,
9	9.1,	63.9,	136.4,	-99.3,	35.4,	10	9.1,	85.7,	145.1,	-109.2,	29.6,
11	9.1,	105.4,	149.4,	-115.8,	22.7,	12	9.1,	121.9,	149.2,	-118.9,	15.0,
13	9.1,	134.8,	144.5,	-118.3,	6.9,	14	9.1,	143.5,	135.3,	-114.2,	-1.4,
15	9.1,	147.9,	122.1,	-106.6,	-9.6,	16	9.1,	147.8,	105.1,	-95.7,	-17.6,
17	9.1,	143.2,	85.0,	-81.9,	-25.0,	18	9.1,	136.4,	63.9,	-67.3,	-31.2,
19	9.1,	145.1,	85.7,	-72.4,	-36.7,	20	9.1,	149.4,	105.4,	-75.3,	-41.1,
21	9.1,	149.2,	121.9,	-76.0,	-44.3,	22	9.1,	144.5,	134.8,	-74.3,	-46.1,
23	9.1,	135.3,	143.5,	-70.4,	-46.5,	24	9.1,	122.1,	147.9,	-64.3,	-45.5,
25	9.1,	105.1,	147.8,	-56.3,	-43.1,	26	9.1,	85.0,	143.2,	-46.5,	-39.4,
27	9.1,	63.9,	136.4,	-37.0,	-35.4,	28	9.1,	85.7,	145.1,	-35.9,	-29.6,
29	9.1,	105.4,	149.4,	-33.6,	-22.7,	30	9.1,	121.9,	149.2,	-30.3,	-15.0,
31	9.1,	134.8,	144.5,	-26.2,	-6.9,	32	9.1,	143.5,	135.3,	-21.2,	1.4,
33	9.1,	147.9,	122.1,	-15.5,	9.6,	34	9.1,	147.8,	105.1,	-9.4,	17.6,
35	9.1,	143.2,	85.0,	-3.0,	25.0,	36	9.1,	136.4,	63.9,	3.4,	31.2,

SOURCE ID: STCK8

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	44.9,	68.0,	-36.7,	20.3,	2	9.1,	53.9,	70.9,	-41.7,	19.5,
3	9.1,	61.3,	71.8,	-45.4,	18.2,	4	9.1,	66.8,	70.4,	-47.7,	16.2,
5	9.1,	70.2,	66.9,	-48.6,	13.8,	6	9.1,	71.6,	61.4,	-48.0,	11.0,
7	9.1,	70.7,	54.0,	-45.9,	7.9,	8	9.1,	67.7,	45.0,	-42.5,	4.5,
9	9.1,	62.9,	34.6,	-37.7,	0.8,	10	9.1,	68.0,	44.9,	-42.7,	-2.7,
11	9.1,	70.9,	53.9,	-46.5,	-6.2,	12	9.1,	71.8,	61.3,	-48.8,	-9.5,
13	9.1,	70.4,	66.8,	-49.6,	-12.5,	14	9.1,	66.9,	70.2,	-49.0,	-15.1,
15	9.1,	61.4,	71.6,	-46.8,	-17.3,	16	9.1,	54.0,	70.7,	-43.2,	-18.9,
17	9.1,	45.0,	67.7,	-38.3,	-20.0,	18	9.1,	34.6,	62.9,	-32.3,	-20.4,
19	9.1,	44.9,	68.0,	-31.2,	-20.3,	20	9.1,	53.9,	70.9,	-29.2,	-19.5,
21	9.1,	61.3,	71.8,	-26.4,	-18.2,	22	9.1,	66.8,	70.4,	-22.7,	-16.2,
23	9.1,	70.2,	66.9,	-18.4,	-13.8,	24	9.1,	71.6,	61.4,	-13.4,	-11.0,
25	9.1,	70.7,	54.0,	-8.1,	-7.9,	26	9.1,	67.7,	45.0,	-2.5,	-4.5,
27	9.1,	62.9,	34.6,	3.1,	-0.8,	28	9.1,	68.0,	44.9,	-2.2,	2.7,
29	9.1,	70.9,	53.9,	-7.5,	6.2,	30	9.1,	71.8,	61.3,	-12.5,	9.5,
31	9.1,	70.4,	66.8,	-17.1,	12.5,	32	9.1,	66.9,	70.2,	-21.3,	15.1,
33	9.1,	61.4,	71.6,	-24.8,	17.3,	34	9.1,	54.0,	70.7,	-27.5,	18.9,
35	9.1,	45.0,	67.7,	-29.4,	20.0,	36	9.1,	34.6,	62.9,	-30.6,	20.4,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK9

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	145.4,	85.7,	-1.2,	-26.4,	2	9.1,	149.7,	105.7,	-7.3,	-18.7,
3	9.1,	149.6,	122.5,	-13.1,	-10.5,	4	9.1,	144.8,	135.6,	-18.6,	-2.0,
5	9.1,	135.7,	144.5,	-23.5,	6.6,	6	9.1,	122.4,	149.0,	-27.7,	15.0,
7	9.1,	105.4,	149.0,	-31.0,	22.9,	8	9.1,	85.3,	144.5,	-33.4,	30.2,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	85.7,	145.4,	-46.3,	41.7,
11	9.1,	105.7,	149.7,	-56.2,	45.6,	12	9.1,	122.5,	149.6,	-64.3,	48.1,
13	9.1,	135.6,	144.8,	-70.4,	49.2,	14	9.1,	144.5,	135.7,	-74.5,	48.8,
15	9.1,	149.0,	122.4,	-76.2,	46.9,	16	9.1,	149.0,	105.4,	-75.7,	43.5,
17	9.1,	144.5,	85.3,	-72.8,	38.9,	18	9.1,	136.6,	63.5,	-68.1,	33.2,
19	9.1,	145.4,	85.7,	-84.6,	26.4,	20	9.1,	149.7,	105.7,	-98.5,	18.7,
21	9.1,	149.6,	122.5,	-109.4,	10.5,	22	9.1,	144.8,	135.6,	-117.0,	2.0,
23	9.1,	135.7,	144.5,	-121.0,	-6.6,	24	9.1,	122.4,	149.0,	-121.4,	-15.0,
25	9.1,	105.4,	149.0,	-118.0,	-22.9,	26	9.1,	85.3,	144.5,	-111.1,	-30.2,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	85.7,	145.4,	-99.0,	-41.7,
29	9.1,	105.7,	149.7,	-93.6,	-45.6,	30	9.1,	122.5,	149.6,	-85.3,	-48.1,
31	9.1,	135.6,	144.8,	-74.4,	-49.2,	32	9.1,	144.5,	135.7,	-61.2,	-48.8,
33	9.1,	149.0,	122.4,	-46.2,	-46.9,	34	9.1,	149.0,	105.4,	-29.8,	-43.5,
35	9.1,	144.5,	85.3,	-12.5,	-38.9,	36	9.1,	136.6,	63.5,	4.6,	-33.2,

SOURCE ID: STCK10

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	145.4,	85.7,	-12.6,	29.9,	2	9.1,	149.7,	105.7,	-28.3,	34.7,
3	9.1,	149.6,	122.5,	-43.1,	38.5,	4	9.1,	144.8,	135.6,	-56.6,	41.0,
5	9.1,	135.7,	144.5,	-68.4,	42.4,	6	9.1,	122.4,	149.0,	-78.1,	42.4,
7	9.1,	105.4,	149.0,	-85.5,	41.2,	8	9.1,	85.3,	144.5,	-90.2,	38.7,
9	9.1,	63.5,	136.6,	-92.5,	34.8,	10	9.1,	85.7,	145.4,	-102.6,	30.2,
11	9.1,	105.7,	149.7,	-109.6,	24.5,	12	9.1,	122.5,	149.6,	-113.2,	18.1,
13	9.1,	135.6,	144.8,	-113.5,	11.1,	14	9.1,	144.5,	135.7,	-110.2,	3.8,
15	9.1,	149.0,	122.4,	-103.6,	-3.6,	16	9.1,	149.0,	105.4,	-93.9,	-11.0,
17	9.1,	144.5,	85.3,	-81.3,	-17.9,	18	9.1,	136.6,	63.5,	-66.6,	-24.2,
19	9.1,	145.4,	85.7,	-73.1,	-29.9,	20	9.1,	149.7,	105.7,	-77.4,	-34.7,
21	9.1,	149.6,	122.5,	-79.4,	-38.5,	22	9.1,	144.8,	135.6,	-78.9,	-41.0,
23	9.1,	135.7,	144.5,	-76.0,	-42.4,	24	9.1,	122.4,	149.0,	-70.9,	-42.4,
25	9.1,	105.4,	149.0,	-63.6,	-41.2,	26	9.1,	85.3,	144.5,	-54.3,	-38.7,
27	9.1,	63.5,	136.6,	-44.1,	-34.8,	28	9.1,	85.7,	145.4,	-42.8,	-30.2,
29	9.1,	105.7,	149.7,	-40.1,	-24.5,	30	9.1,	122.5,	149.6,	-36.3,	-18.1,
31	9.1,	135.6,	144.8,	-31.4,	-11.1,	32	9.1,	144.5,	135.7,	-25.5,	-3.8,
33	9.1,	149.0,	122.4,	-18.8,	3.6,	34	9.1,	149.0,	105.4,	-11.6,	11.0,
35	9.1,	144.5,	85.3,	-4.0,	17.9,	36	9.1,	136.6,	63.5,	3.1,	24.2,

SOURCE ID: STCK11

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	147.8,	86.1,	-0.5,	-27.9,	2	9.1,	151.9,	107.0,	-6.9,	-20.0,
3	9.1,	151.4,	124.8,	-13.0,	-11.4,	4	9.1,	146.2,	138.7,	-18.8,	-2.5,
5	9.1,	136.6,	148.4,	-24.0,	6.5,	6	9.1,	122.9,	153.6,	-28.4,	15.3,
7	9.1,	105.4,	154.1,	-32.0,	23.7,	8	9.1,	84.8,	150.0,	-34.7,	31.3,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	86.1,	147.8,	-46.0,	42.5,
11	9.1,	107.0,	151.9,	-56.0,	46.6,	12	9.1,	124.8,	151.4,	-64.3,	49.3,
13	9.1,	138.7,	146.2,	-70.6,	50.5,	14	9.1,	148.4,	136.6,	-74.8,	50.2,
15	9.1,	153.6,	122.9,	-76.8,	48.3,	16	9.1,	154.1,	105.4,	-76.4,	45.0,
17	9.1,	150.0,	84.8,	-73.6,	40.3,	18	9.1,	141.3,	63.2,	-68.7,	34.4,
19	9.1,	147.8,	86.1,	-85.5,	27.9,	20	9.1,	151.9,	107.0,	-100.1,	20.0,
21	9.1,	151.4,	124.8,	-111.7,	11.4,	22	9.1,	146.2,	138.7,	-119.9,	2.5,
23	9.1,	136.6,	148.4,	-124.4,	-6.5,	24	9.1,	122.9,	153.6,	-125.1,	-15.3,
25	9.1,	105.4,	154.1,	-122.1,	-23.7,	26	9.1,	84.8,	150.0,	-115.3,	-31.3,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	86.1,	147.8,	-101.9,	-42.5,
29	9.1,	107.0,	151.9,	-95.9,	-46.6,	30	9.1,	124.8,	151.4,	-87.1,	-49.3,
31	9.1,	138.7,	146.2,	-75.6,	-50.5,	32	9.1,	148.4,	136.6,	-61.8,	-50.2,
33	9.1,	153.6,	122.9,	-46.1,	-48.3,	34	9.1,	154.1,	105.4,	-29.1,	-45.0,
35	9.1,	150.0,	84.8,	-11.1,	-40.3,	36	9.1,	141.3,	63.2,	5.5,	-34.4,

SOURCE ID: STCK12

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	147.8,	86.1,	-12.8,	35.7,	2	9.1,	151.9,	107.0,	-30.1,	40.6,
3	9.1,	151.4,	124.8,	-46.4,	44.2,	4	9.1,	146.2,	138.7,	-61.3,	46.5,
5	9.1,	136.6,	148.4,	-74.3,	47.4,	6	9.1,	122.9,	153.6,	-85.1,	46.8,
7	9.1,	105.4,	154.1,	-93.3,	44.8,	8	9.1,	84.8,	150.0,	-98.7,	41.5,
9	9.1,	63.2,	141.3,	-101.1,	36.1,	10	9.1,	86.1,	147.8,	-109.6,	30.2,

11	9.1,	107.0,	151.9,	-116.5,	23.5,	12	9.1,	124.8,	151.4,	-119.9,	16.0,
13	9.1,	138.7,	146.2,	-119.6,	8.1,	14	9.1,	148.4,	136.6,	-115.7,	-0.1,
15	9.1,	153.6,	122.9,	-108.3,	-8.3,	16	9.1,	154.1,	105.4,	-97.6,	-16.3,
17	9.1,	150.0,	84.8,	-83.9,	-23.7,	18	9.1,	141.3,	63.2,	-67.6,	-30.4,
19	9.1,	147.8,	86.1,	-73.3,	-35.7,	20	9.1,	151.9,	107.0,	-77.0,	-40.6,
21	9.1,	151.4,	124.8,	-78.4,	-44.2,	22	9.1,	146.2,	138.7,	-77.4,	-46.5,
23	9.1,	136.6,	148.4,	-74.0,	-47.4,	24	9.1,	122.9,	153.6,	-68.5,	-46.8,
25	9.1,	105.4,	154.1,	-60.8,	-44.8,	26	9.1,	84.8,	150.0,	-51.3,	-41.5,
27	9.1,	63.2,	141.3,	-40.2,	-36.1,	28	9.1,	86.1,	147.8,	-38.2,	-30.2,
29	9.1,	107.0,	151.9,	-35.4,	-23.5,	30	9.1,	124.8,	151.4,	-31.5,	-16.0,
31	9.1,	138.7,	146.2,	-26.6,	-8.1,	32	9.1,	148.4,	136.6,	-20.9,	0.1,
33	9.1,	153.6,	122.9,	-14.6,	8.3,	34	9.1,	154.1,	105.4,	-7.9,	16.3,
35	9.1,	150.0,	84.8,	-0.9,	23.7,	36	9.1,	141.3,	63.2,	4.5,	30.4,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK13

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	86.3,	131.2,	-92.7,	-47.5,	2	9.1,	103.6,	136.9,	-87.0,	-51.6,
3	9.1,	117.9,	138.3,	-78.5,	-54.1,	4	9.1,	128.5,	135.6,	-67.7,	-55.0,
5	9.1,	135.3,	128.7,	-54.9,	-54.2,	6	9.1,	137.9,	118.0,	-40.3,	-51.8,
7	9.1,	136.4,	103.6,	-24.6,	-47.8,	8	9.1,	130.7,	86.1,	-8.1,	-42.3,
9	9.1,	121.9,	66.5,	8.7,	-35.0,	10	9.1,	131.2,	86.3,	4.4,	-27.1,
11	9.1,	136.9,	103.6,	-0.2,	-18.5,	12	9.1,	138.3,	117.9,	-4.8,	-9.4,
13	9.1,	135.6,	128.5,	-9.2,	0.1,	14	9.1,	128.7,	135.3,	-13.4,	9.5,
15	9.1,	118.0,	137.9,	-17.2,	18.7,	16	9.1,	103.6,	136.4,	-20.4,	27.2,
17	9.1,	86.1,	130.7,	-23.1,	35.0,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	86.3,	131.2,	-38.5,	47.5,	20	9.1,	103.6,	136.9,	-49.9,	51.6,
21	9.1,	117.9,	138.3,	-59.8,	54.1,	22	9.1,	128.5,	135.6,	-67.9,	55.0,
23	9.1,	135.3,	128.7,	-73.9,	54.2,	24	9.1,	137.9,	118.0,	-77.6,	51.8,
25	9.1,	136.4,	103.6,	-79.0,	47.8,	26	9.1,	130.7,	86.1,	-78.0,	42.3,
27	9.1,	121.9,	66.5,	-75.1,	35.0,	28	9.1,	131.2,	86.3,	-90.7,	27.1,
29	9.1,	136.9,	103.6,	-103.5,	18.5,	30	9.1,	138.3,	117.9,	-113.1,	9.4,
31	9.1,	135.6,	128.5,	-119.3,	-0.1,	32	9.1,	128.7,	135.3,	-121.9,	-9.5,
33	9.1,	118.0,	137.9,	-120.7,	-18.7,	34	9.1,	103.6,	136.4,	-115.9,	-27.2,
35	9.1,	86.1,	130.7,	-107.6,	-35.0,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK14

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	86.3,	131.2,	-29.3,	-34.6,	2	9.1,	103.6,	136.9,	-26.7,	-27.9,
3	9.1,	117.9,	138.3,	-23.4,	-20.3,	4	9.1,	128.5,	135.6,	-19.2,	-12.1,
5	9.1,	135.3,	128.7,	-14.6,	-3.6,	6	9.1,	137.9,	118.0,	-9.5,	5.1,
7	9.1,	136.4,	103.6,	-4.0,	13.6,	8	9.1,	130.7,	86.1,	1.5,	21.8,

9	9.1,	121.9,	66.5,	7.0,	29.7,	10	9.1,	131.2,	86.3,	-8.5,	36.3,
11	9.1,	136.9,	103.6,	-23.9,	41.7,	12	9.1,	138.3,	117.9,	-38.6,	45.8,
13	9.1,	135.6,	128.5,	-52.1,	48.5,	14	9.1,	128.7,	135.3,	-64.1,	49.8,
15	9.1,	118.0,	137.9,	-74.1,	49.5,	16	9.1,	103.6,	136.4,	-81.8,	47.8,
17	9.1,	86.1,	130.7,	-87.1,	44.5,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	86.3,	131.2,	-101.9,	34.6,	20	9.1,	103.6,	136.9,	-110.1,	27.9,
21	9.1,	117.9,	138.3,	-115.0,	20.3,	22	9.1,	128.5,	135.6,	-116.3,	12.1,
23	9.1,	135.3,	128.7,	-114.2,	3.6,	24	9.1,	137.9,	118.0,	-108.5,	-5.1,
25	9.1,	136.4,	103.6,	-99.6,	-13.6,	26	9.1,	130.7,	86.1,	-87.6,	-21.8,
27	9.1,	121.9,	66.5,	-73.5,	-29.7,	28	9.1,	131.2,	86.3,	-77.8,	-36.3,
29	9.1,	136.9,	103.6,	-79.7,	-41.7,	30	9.1,	138.3,	117.9,	-79.3,	-45.8,
31	9.1,	135.6,	128.5,	-76.4,	-48.5,	32	9.1,	128.7,	135.3,	-71.2,	-49.8,
33	9.1,	118.0,	137.9,	-63.8,	-49.5,	34	9.1,	103.6,	136.4,	-54.5,	-47.8,
35	9.1,	86.1,	130.7,	-43.6,	-44.5,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK15

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	144.3,	83.7,	-0.4,	-26.7,	2	9.1,	148.5,	104.0,	-6.6,	-19.1,
3	9.1,	148.2,	121.2,	-12.7,	-10.9,	4	9.1,	143.4,	134.7,	-18.4,	-2.4,
5	9.1,	134.3,	144.0,	-23.6,	6.1,	6	9.1,	121.1,	149.0,	-28.0,	14.5,
7	9.1,	104.2,	149.5,	-31.6,	22.4,	8	9.1,	84.1,	145.5,	-34.2,	29.7,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	83.7,	144.3,	-45.5,	41.5,
11	9.1,	104.0,	148.5,	-55.2,	45.4,	12	9.1,	121.2,	148.2,	-63.2,	47.9,
13	9.1,	134.7,	143.4,	-69.3,	48.9,	14	9.1,	144.0,	134.3,	-73.3,	48.5,
15	9.1,	149.0,	121.1,	-75.0,	46.5,	16	9.1,	149.5,	104.2,	-74.5,	43.2,
17	9.1,	145.5,	84.1,	-71.7,	38.6,	18	9.1,	137.0,	61.5,	-66.8,	32.8,
19	9.1,	144.3,	83.7,	-83.3,	26.7,	20	9.1,	148.5,	104.0,	-97.4,	19.1,
21	9.1,	148.2,	121.2,	-108.4,	10.9,	22	9.1,	143.4,	134.7,	-116.2,	2.4,
23	9.1,	134.3,	144.0,	-120.5,	-6.1,	24	9.1,	121.1,	149.0,	-121.1,	-14.5,
25	9.1,	104.2,	149.5,	-118.0,	-22.4,	26	9.1,	84.1,	145.5,	-111.3,	-29.7,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	83.7,	144.3,	-98.8,	-41.5,
29	9.1,	104.0,	148.5,	-93.3,	-45.4,	30	9.1,	121.2,	148.2,	-85.0,	-47.9,
31	9.1,	134.7,	143.4,	-74.2,	-48.9,	32	9.1,	144.0,	134.3,	-61.0,	-48.5,
33	9.1,	149.0,	121.1,	-46.1,	-46.5,	34	9.1,	149.5,	104.2,	-29.7,	-43.2,
35	9.1,	145.5,	84.1,	-12.4,	-38.6,	36	9.1,	137.0,	61.5,	5.3,	-32.8,

SOURCE ID: STCK16

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	144.3,	83.7,	-9.6,	35.7,	2	9.1,	148.5,	104.0,	-26.6,	40.7,
3	9.1,	148.2,	121.2,	-42.8,	44.5,	4	9.1,	143.4,	134.7,	-57.6,	46.9,
5	9.1,	134.3,	144.0,	-70.7,	47.9,	6	9.1,	121.1,	149.0,	-81.7,	47.5,
7	9.1,	104.2,	149.5,	-90.2,	45.6,	8	9.1,	84.1,	145.5,	-95.9,	42.3,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	83.7,	144.3,	-107.8,	32.2,
11	9.1,	104.0,	148.5,	-114.9,	25.4,	12	9.1,	121.2,	148.2,	-118.6,	17.8,
13	9.1,	134.7,	143.4,	-118.6,	9.7,	14	9.1,	144.0,	134.3,	-115.1,	1.3,
15	9.1,	149.0,	121.1,	-108.0,	-7.2,	16	9.1,	149.5,	104.2,	-97.6,	-15.4,
17	9.1,	145.5,	84.1,	-84.3,	-23.2,	18	9.1,	137.0,	61.5,	-68.5,	-30.2,
19	9.1,	144.3,	83.7,	-74.1,	-35.7,	20	9.1,	148.5,	104.0,	-77.4,	-40.7,
21	9.1,	148.2,	121.2,	-78.4,	-44.5,	22	9.1,	143.4,	134.7,	-77.0,	-46.9,

23	9.1,	134.3,	144.0,	-73.3,	-47.9,	24	9.1,	121.1,	149.0,	-67.3,	-47.5,
25	9.1,	104.2,	149.5,	-59.3,	-45.6,	26	9.1,	84.1,	145.5,	-49.5,	-42.3,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	83.7,	144.3,	-36.4,	-32.2,
29	9.1,	104.0,	148.5,	-33.5,	-25.4,	30	9.1,	121.2,	148.2,	-29.6,	-17.8,
31	9.1,	134.7,	143.4,	-24.8,	-9.7,	32	9.1,	144.0,	134.3,	-19.2,	-1.3,
33	9.1,	149.0,	121.1,	-13.1,	7.2,	34	9.1,	149.5,	104.2,	-6.5,	15.4,
35	9.1,	145.5,	84.1,	0.2,	23.2,	36	9.1,	137.0,	61.5,	7.0,	30.2,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK18

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	145.4,	85.4,	1.1,	-24.1,	2	9.1,	150.0,	105.4,	-5.4,	-16.2,
3	9.1,	150.0,	122.2,	-11.6,	-7.7,	4	9.1,	145.5,	135.3,	-17.5,	1.0,
5	9.1,	136.6,	144.3,	-22.9,	9.7,	6	9.1,	123.5,	148.9,	-27.6,	18.1,
7	9.1,	106.6,	149.0,	-31.4,	25.9,	8	9.1,	86.5,	144.5,	-34.3,	32.9,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	85.4,	145.4,	-48.6,	43.7,
11	9.1,	105.4,	150.0,	-58.8,	47.3,	12	9.1,	122.2,	150.0,	-67.3,	49.5,
13	9.1,	135.3,	145.5,	-73.8,	50.1,	14	9.1,	144.3,	136.6,	-78.0,	49.3,
15	9.1,	148.9,	123.5,	-79.8,	46.9,	16	9.1,	149.0,	106.6,	-79.2,	43.1,
17	9.1,	144.5,	86.5,	-76.2,	38.0,	18	9.1,	136.4,	63.8,	-70.9,	31.4,
19	9.1,	145.4,	85.4,	-86.4,	24.1,	20	9.1,	150.0,	105.4,	-100.0,	16.2,
21	9.1,	150.0,	122.2,	-110.6,	7.7,	22	9.1,	145.5,	135.3,	-117.8,	-1.0,
23	9.1,	136.6,	144.3,	-121.4,	-9.7,	24	9.1,	123.5,	148.9,	-121.3,	-18.1,
25	9.1,	106.6,	149.0,	-117.6,	-25.9,	26	9.1,	86.5,	144.5,	-110.2,	-32.9,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	85.4,	145.4,	-96.8,	-43.7,
29	9.1,	105.4,	150.0,	-91.1,	-47.3,	30	9.1,	122.2,	150.0,	-82.7,	-49.5,
31	9.1,	135.3,	145.5,	-71.7,	-50.1,	32	9.1,	144.3,	136.6,	-58.6,	-49.3,
33	9.1,	148.9,	123.5,	-43.7,	-46.9,	34	9.1,	149.0,	106.6,	-27.4,	-43.1,
35	9.1,	144.5,	86.5,	-10.4,	-38.0,	36	9.1,	136.4,	63.8,	7.0,	-31.4,

SOURCE ID: STCK19

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	145.4,	85.4,	-11.9,	39.3,	2	9.1,	150.0,	105.4,	-29.1,	44.1,
3	9.1,	150.0,	122.2,	-45.4,	47.5,	4	9.1,	145.5,	135.3,	-60.4,	49.5,
5	9.1,	136.6,	144.3,	-73.5,	50.0,	6	9.1,	123.5,	148.9,	-84.4,	48.9,
7	9.1,	106.6,	149.0,	-92.8,	46.4,	8	9.1,	86.5,	144.5,	-98.3,	42.5,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	85.4,	145.4,	-112.0,	30.8,
11	9.1,	105.4,	150.0,	-119.1,	23.6,	12	9.1,	122.2,	150.0,	-122.5,	15.7,
13	9.1,	135.3,	145.5,	-122.2,	7.2,	14	9.1,	144.3,	136.6,	-118.2,	-1.4,
15	9.1,	148.9,	123.5,	-110.7,	-10.0,	16	9.1,	149.0,	106.6,	-99.7,	-18.3,
17	9.1,	144.5,	86.5,	-85.7,	-26.0,	18	9.1,	136.4,	63.8,	-69.2,	-33.3,
19	9.1,	145.4,	85.4,	-73.5,	-39.3,	20	9.1,	150.0,	105.4,	-76.3,	-44.1,

21	9.1,	150.0,	122.2,	-76.8,	-47.5,	22	9.1,	145.5,	135.3,	-74.9,	-49.5,
23	9.1,	136.6,	144.3,	-70.7,	-50.0,	24	9.1,	123.5,	148.9,	-64.4,	-48.9,
25	9.1,	106.6,	149.0,	-56.2,	-46.4,	26	9.1,	86.5,	144.5,	-46.2,	-42.5,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	85.4,	145.4,	-33.4,	-30.8,
29	9.1,	105.4,	150.0,	-30.9,	-23.6,	30	9.1,	122.2,	150.0,	-27.5,	-15.7,
31	9.1,	135.3,	145.5,	-23.3,	-7.2,	32	9.1,	144.3,	136.6,	-18.3,	1.4,
33	9.1,	148.9,	123.5,	-12.8,	10.0,	34	9.1,	149.0,	106.6,	-6.9,	18.3,
35	9.1,	144.5,	86.5,	-0.8,	26.0,	36	9.1,	136.4,	63.8,	5.3,	33.3,

SOURCE ID: STCK20

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	147.0,	85.4,	-73.6,	-40.5,	2	9.1,	151.3,	106.0,	-76.3,	-45.1,
3	9.1,	150.9,	123.3,	-76.7,	-48.3,	4	9.1,	145.9,	137.0,	-74.8,	-50.1,
5	9.1,	136.6,	146.5,	-70.6,	-50.3,	6	9.1,	123.0,	151.5,	-64.2,	-49.0,
7	9.1,	105.8,	151.9,	-55.9,	-46.2,	8	9.1,	85.3,	147.7,	-45.9,	-42.1,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	85.4,	147.0,	-33.0,	-30.9,
11	9.1,	106.0,	151.3,	-30.5,	-23.4,	12	9.1,	123.3,	150.9,	-27.1,	-15.0,
13	9.1,	137.0,	145.9,	-22.9,	-6.3,	14	9.1,	146.5,	136.6,	-17.9,	2.7,
15	9.1,	151.5,	123.0,	-12.5,	11.5,	16	9.1,	151.9,	105.8,	-6.6,	20.1,
17	9.1,	147.7,	85.3,	-0.6,	28.0,	18	9.1,	139.0,	63.2,	5.5,	35.0,
19	9.1,	147.0,	85.4,	-11.8,	40.5,	20	9.1,	151.3,	106.0,	-29.6,	45.1,
21	9.1,	150.9,	123.3,	-46.6,	48.3,	22	9.1,	145.9,	137.0,	-62.2,	50.1,
23	9.1,	136.6,	146.5,	-75.9,	50.3,	24	9.1,	123.0,	151.5,	-87.3,	49.0,
25	9.1,	105.8,	151.9,	-96.0,	46.2,	26	9.1,	85.3,	147.7,	-101.8,	42.1,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	85.4,	147.0,	-114.0,	30.9,
29	9.1,	106.0,	151.3,	-120.7,	23.4,	30	9.1,	123.3,	150.9,	-123.8,	15.0,
31	9.1,	137.0,	145.9,	-123.1,	6.3,	32	9.1,	146.5,	136.6,	-118.6,	-2.7,
33	9.1,	151.5,	123.0,	-110.5,	-11.5,	34	9.1,	151.9,	105.8,	-99.1,	-20.1,
35	9.1,	147.7,	85.3,	-84.7,	-28.0,	36	9.1,	139.0,	63.2,	-68.7,	-35.0,

SOURCE ID: STCK21

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	147.0,	85.4,	-87.0,	30.6,	2	9.1,	151.3,	106.0,	-101.9,	22.6,
3	9.1,	150.9,	123.3,	-113.6,	13.9,	4	9.1,	145.9,	137.0,	-121.9,	4.8,
5	9.1,	136.6,	146.5,	-126.5,	-4.5,	6	9.1,	123.0,	151.5,	-127.3,	-13.6,
7	9.1,	105.8,	151.9,	-124.2,	-22.3,	8	9.1,	85.3,	147.7,	-117.3,	-30.3,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	85.4,	147.0,	-104.1,	-44.3,
11	9.1,	106.0,	151.3,	-98.2,	-48.9,	12	9.1,	123.3,	150.9,	-89.4,	-52.0,
13	9.1,	137.0,	145.9,	-77.8,	-53.4,	14	9.1,	146.5,	136.6,	-63.8,	-53.3,
15	9.1,	151.5,	123.0,	-47.9,	-51.6,	16	9.1,	151.9,	105.8,	-30.6,	-48.2,
17	9.1,	147.7,	85.3,	-12.3,	-43.5,	18	9.1,	139.0,	63.2,	6.3,	-37.3,
19	9.1,	147.0,	85.4,	1.7,	-30.6,	20	9.1,	151.3,	106.0,	-4.1,	-22.6,
21	9.1,	150.9,	123.3,	-9.7,	-13.9,	22	9.1,	145.9,	137.0,	-15.0,	-4.8,
23	9.1,	136.6,	146.5,	-19.9,	4.5,	24	9.1,	123.0,	151.5,	-24.2,	13.6,
25	9.1,	105.8,	151.9,	-27.7,	22.3,	26	9.1,	85.3,	147.7,	-30.4,	30.3,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	85.4,	147.0,	-42.9,	44.3,
29	9.1,	106.0,	151.3,	-53.0,	48.9,	30	9.1,	123.3,	150.9,	-61.5,	52.0,
31	9.1,	137.0,	145.9,	-68.2,	53.4,	32	9.1,	146.5,	136.6,	-72.7,	53.3,
33	9.1,	151.5,	123.0,	-75.1,	51.6,	34	9.1,	151.9,	105.8,	-75.2,	48.2,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK22

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	49.7,	70.3,	-44.7,	24.0,	2	9.1,	59.0,	73.7,	-50.3,	22.0,
3	9.1,	66.4,	74.8,	-54.4,	19.4,	4	9.1,	71.8,	73.8,	-56.9,	16.2,
5	9.1,	75.1,	70.4,	-57.6,	12.5,	6	9.1,	76.0,	64.9,	-56.6,	8.5,
7	9.1,	74.7,	57.5,	-53.8,	4.1,	8	9.1,	71.1,	48.3,	-49.4,	-0.3,
9	9.1,	65.6,	39.0,	-44.7,	-4.9,	10	9.1,	70.3,	49.8,	-48.8,	-9.5,
11	9.1,	73.7,	59.0,	-51.5,	-13.5,	12	9.1,	74.8,	66.4,	-52.6,	-17.0,
13	9.1,	73.8,	71.8,	-52.2,	-20.0,	14	9.1,	70.4,	75.1,	-50.1,	-22.4,
15	9.1,	64.9,	76.0,	-46.5,	-24.1,	16	9.1,	57.5,	74.7,	-41.5,	-25.1,
17	9.1,	48.3,	71.1,	-35.2,	-25.3,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	49.8,	70.3,	-25.6,	-24.0,	20	9.1,	59.0,	73.7,	-23.4,	-22.0,
21	9.1,	66.4,	74.8,	-20.4,	-19.4,	22	9.1,	71.8,	73.8,	-16.9,	-16.2,
23	9.1,	75.1,	70.4,	-12.8,	-12.5,	24	9.1,	76.0,	64.9,	-8.4,	-8.5,
25	9.1,	74.7,	57.5,	-3.6,	-4.1,	26	9.1,	71.1,	48.3,	1.2,	0.3,
27	9.1,	65.6,	39.0,	5.7,	4.9,	28	9.1,	70.3,	49.8,	-0.9,	9.5,
29	9.1,	73.7,	59.0,	-7.5,	13.5,	30	9.1,	74.8,	66.4,	-13.8,	17.0,
31	9.1,	73.8,	71.8,	-19.7,	20.0,	32	9.1,	70.4,	75.1,	-25.0,	22.4,
33	9.1,	64.9,	76.0,	-29.6,	24.1,	34	9.1,	57.5,	74.7,	-33.2,	25.1,
35	9.1,	48.3,	71.1,	-35.8,	25.3,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK23

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	44.6,	69.9,	-32.1,	-23.6,	2	9.1,	54.0,	72.6,	-29.5,	-22.7,
3	9.1,	61.8,	73.0,	-26.0,	-21.1,	4	9.1,	145.9,	137.0,	-131.2,	71.5,
5	9.1,	136.6,	146.5,	-147.2,	59.6,	6	9.1,	123.0,	151.5,	-158.8,	45.9,
7	9.1,	105.8,	151.9,	-165.6,	30.8,	8	9.1,	85.3,	147.7,	-167.3,	14.8,
9	9.1,	63.2,	139.0,	-163.9,	-2.2,	10	9.1,	85.4,	147.0,	-166.5,	-19.0,
11	9.1,	106.0,	151.3,	-164.1,	-34.8,	12	9.1,	123.3,	150.9,	-156.6,	-49.5,
13	9.1,	137.0,	145.9,	-144.5,	-62.7,	14	9.1,	146.5,	136.6,	-127.9,	-74.0,
15	9.1,	61.3,	73.1,	-23.6,	19.4,	16	9.1,	53.4,	72.5,	-27.0,	21.4,
17	9.1,	43.9,	69.7,	-29.5,	22.6,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	44.6,	69.9,	-37.8,	23.6,	20	9.1,	54.0,	72.6,	-43.1,	22.7,
21	9.1,	61.8,	73.0,	-47.0,	21.1,	22	9.1,	145.9,	137.0,	-5.8,	-71.5,
23	9.1,	136.6,	146.5,	0.8,	-59.6,	24	9.1,	123.0,	151.5,	7.3,	-45.9,
25	9.1,	105.8,	151.9,	13.7,	-30.8,	26	9.1,	69.7,	43.9,	-44.6,	5.3,
27	9.1,	65.2,	34.1,	-40.6,	1.2,	28	9.1,	69.9,	44.6,	-45.9,	-2.8,
29	9.1,	106.0,	151.3,	12.8,	34.8,	30	9.1,	123.3,	150.9,	5.8,	49.5,
31	9.1,	137.0,	145.9,	-1.5,	62.7,	32	9.1,	146.5,	136.6,	-8.7,	74.0,

33	9.1,	61.3,	73.1,	-49.4,	-19.4,	34	9.1,	53.4,	72.5,	-45.5,	-21.4,
35	9.1,	43.9,	69.7,	-40.2,	-22.6,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK24

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	92.2,	143.7,	-99.8,	-46.4,	2	9.1,	111.7,	148.7,	-93.6,	-50.5,
3	9.1,	127.9,	149.2,	-84.6,	-53.0,	4	9.1,	140.2,	145.2,	-73.0,	-53.9,
5	9.1,	148.2,	136.8,	-59.2,	-53.2,	6	9.1,	151.7,	124.2,	-43.6,	-50.9,
7	9.1,	150.6,	107.8,	-26.7,	-47.1,	8	9.1,	144.9,	88.2,	-9.0,	-41.8,
9	9.1,	135.1,	69.8,	6.0,	-35.3,	10	9.1,	143.7,	92.2,	0.3,	-27.9,
11	9.1,	148.7,	111.7,	-5.4,	-19.2,	12	9.1,	149.2,	127.9,	-10.9,	-10.0,
13	9.1,	145.2,	140.2,	-16.1,	-0.4,	14	9.1,	136.8,	148.2,	-20.8,	9.2,
15	9.1,	124.2,	151.7,	-24.9,	18.5,	16	9.1,	107.8,	150.6,	-28.2,	27.2,
17	9.1,	88.2,	144.9,	-30.7,	35.1,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	92.2,	143.7,	-43.9,	46.4,	20	9.1,	111.7,	148.7,	-55.1,	50.5,
21	9.1,	127.9,	149.2,	-64.6,	53.0,	22	9.1,	140.2,	145.2,	-72.2,	53.9,
23	9.1,	148.2,	136.8,	-77.6,	53.2,	24	9.1,	151.7,	124.2,	-80.6,	50.9,
25	9.1,	150.6,	107.8,	-81.1,	47.1,	26	9.1,	144.9,	88.2,	-79.2,	41.8,
27	9.1,	135.1,	69.8,	-75.8,	35.3,	28	9.1,	143.7,	92.2,	-92.5,	27.9,
29	9.1,	148.7,	111.7,	-106.3,	19.2,	30	9.1,	149.2,	127.9,	-117.0,	10.0,
31	9.1,	145.2,	140.2,	-124.0,	0.4,	32	9.1,	136.8,	148.2,	-127.3,	-9.2,
33	9.1,	124.2,	151.7,	-126.8,	-18.5,	34	9.1,	107.8,	150.6,	-122.4,	-27.2,
35	9.1,	88.2,	144.9,	-114.2,	-35.1,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK25

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	92.2,	143.7,	-28.4,	-34.6,	2	9.1,	111.7,	148.7,	-25.3,	-26.5,
3	9.1,	127.9,	149.2,	-21.5,	-17.6,	4	9.1,	140.2,	145.2,	-17.0,	-8.1,
5	9.1,	148.2,	136.8,	-12.0,	1.7,	6	9.1,	151.7,	124.2,	-6.7,	11.3,
7	9.1,	150.6,	107.8,	-1.1,	20.7,	8	9.1,	144.9,	88.2,	4.5,	29.4,
9	9.1,	135.1,	69.8,	6.8,	37.0,	10	9.1,	143.7,	92.2,	-11.5,	43.5,
11	9.1,	148.7,	111.7,	-29.4,	49.0,	12	9.1,	149.2,	127.9,	-46.4,	53.1,
13	9.1,	145.2,	140.2,	-62.0,	55.6,	14	9.1,	136.8,	148.2,	-75.7,	56.3,
15	9.1,	124.2,	151.7,	-87.2,	55.4,	16	9.1,	107.8,	150.6,	-96.0,	52.8,
17	9.1,	88.2,	144.9,	-101.8,	48.5,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	92.2,	143.7,	-115.3,	34.6,	20	9.1,	111.7,	148.7,	-123.4,	26.5,
21	9.1,	127.9,	149.2,	-127.7,	17.6,	22	9.1,	140.2,	145.2,	-128.2,	8.1,
23	9.1,	148.2,	136.8,	-124.7,	-1.7,	24	9.1,	151.7,	124.2,	-117.5,	-11.3,
25	9.1,	150.6,	107.8,	-106.7,	-20.7,	26	9.1,	144.9,	88.2,	-92.6,	-29.4,
27	9.1,	135.1,	69.8,	-76.6,	-37.0,	28	9.1,	143.7,	92.2,	-80.7,	-43.5,
29	9.1,	148.7,	111.7,	-82.4,	-49.0,	30	9.1,	149.2,	127.9,	-81.5,	-53.1,
31	9.1,	145.2,	140.2,	-78.2,	-55.6,	32	9.1,	136.8,	148.2,	-72.4,	-56.3,
33	9.1,	124.2,	151.7,	-64.5,	-55.4,	34	9.1,	107.8,	150.6,	-54.6,	-52.8,
35	9.1,	88.2,	144.9,	-43.1,	-48.5,	36	0.0,	0.0,	0.0,	0.0,	0.0,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK26

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	146.6,	97.9,	-1.7,	-20.8,	2	9.1,	153.0,	117.4,	-8.7,	-12.3,
3	9.1,	154.8,	133.4,	-15.4,	-3.5,	4	9.1,	151.8,	145.3,	-21.6,	5.5,
5	9.1,	144.3,	152.9,	-27.2,	14.2,	6	9.1,	132.4,	155.7,	-31.9,	22.6,
7	9.1,	116.4,	153.9,	-35.7,	30.2,	8	9.1,	96.9,	147.3,	-38.4,	36.9,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	97.9,	146.6,	-52.5,	47.2,
11	9.1,	117.4,	153.0,	-64.2,	50.0,	12	9.1,	133.4,	154.8,	-73.9,	51.3,
13	9.1,	145.3,	151.8,	-81.4,	51.1,	14	9.1,	152.9,	144.3,	-86.4,	49.3,
15	9.1,	155.7,	132.4,	-88.8,	45.9,	16	9.1,	153.9,	116.4,	-88.4,	41.2,
17	9.1,	147.3,	96.9,	-85.4,	35.3,	18	9.1,	136.3,	75.3,	-80.6,	28.3,
19	9.1,	146.6,	97.9,	-96.2,	20.8,	20	9.1,	153.0,	117.4,	-108.8,	12.3,
21	9.1,	154.8,	133.4,	-118.0,	3.5,	22	9.1,	151.8,	145.3,	-123.8,	-5.5,
23	9.1,	144.3,	152.9,	-125.7,	-14.2,	24	9.1,	132.4,	155.7,	-123.8,	-22.6,
25	9.1,	116.4,	153.9,	-118.2,	-30.2,	26	9.1,	96.9,	147.3,	-109.0,	-36.9,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	97.9,	146.6,	-94.0,	-47.2,
29	9.1,	117.4,	153.0,	-88.8,	-50.0,	30	9.1,	133.4,	154.8,	-80.9,	-51.3,
31	9.1,	145.3,	151.8,	-70.5,	-51.1,	32	9.1,	152.9,	144.3,	-57.9,	-49.3,
33	9.1,	155.7,	132.4,	-43.6,	-45.9,	34	9.1,	153.9,	116.4,	-28.0,	-41.2,
35	9.1,	147.3,	96.9,	-11.5,	-35.3,	36	9.1,	136.3,	75.3,	5.3,	-28.3,

SOURCE ID: STCK27

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	146.6,	97.9,	-10.3,	33.7,	2	9.1,	153.0,	117.4,	-26.6,	39.8,
3	9.1,	154.8,	133.4,	-42.0,	44.7,	4	9.1,	151.8,	145.3,	-56.2,	48.3,
5	9.1,	144.3,	152.9,	-68.7,	50.4,	6	9.1,	132.4,	155.7,	-79.1,	51.0,
7	9.1,	116.4,	153.9,	-87.1,	50.0,	8	9.1,	96.9,	147.3,	-92.5,	47.5,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	97.9,	146.6,	-107.0,	38.6,
11	9.1,	117.4,	153.0,	-116.3,	32.1,	12	9.1,	133.4,	154.8,	-122.1,	24.7,
13	9.1,	145.3,	151.8,	-124.2,	16.4,	14	9.1,	152.9,	144.3,	-122.6,	7.7,
15	9.1,	155.7,	132.4,	-117.2,	-1.3,	16	9.1,	153.9,	116.4,	-108.2,	-10.2,
17	9.1,	147.3,	96.9,	-96.0,	-18.8,	18	9.1,	136.3,	75.3,	-81.6,	-26.8,
19	9.1,	146.6,	97.9,	-87.6,	-33.7,	20	9.1,	153.0,	117.4,	-90.8,	-39.8,
21	9.1,	154.8,	133.4,	-91.4,	-44.7,	22	9.1,	151.8,	145.3,	-89.1,	-48.3,
23	9.1,	144.3,	152.9,	-84.1,	-50.4,	24	9.1,	132.4,	155.7,	-76.6,	-51.0,
25	9.1,	116.4,	153.9,	-66.7,	-50.0,	26	9.1,	96.9,	147.3,	-54.9,	-47.5,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	97.9,	146.6,	-39.6,	-38.6,
29	9.1,	117.4,	153.0,	-36.7,	-32.1,	30	9.1,	133.4,	154.8,	-32.6,	-24.7,
31	9.1,	145.3,	151.8,	-27.6,	-16.4,	32	9.1,	152.9,	144.3,	-21.7,	-7.7,
33	9.1,	155.7,	132.4,	-15.2,	1.3,	34	9.1,	153.9,	116.4,	-8.2,	10.2,
35	9.1,	147.3,	96.9,	-1.0,	18.8,	36	9.1,	136.3,	75.3,	6.3,	26.8,

SOURCE ID: STCK28

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ

1	9.1,	49.3,	82.2,	-36.8,	-22.8,	2	9.1,	60.6,	84.5,	-34.0,	-21.6,
3	9.1,	70.1,	84.2,	-30.3,	-19.8,	4	9.1,	151.8,	145.3,	-133.3,	77.8,
5	9.1,	144.3,	152.9,	-149.7,	66.1,	6	9.1,	132.4,	155.7,	-161.6,	52.3,
7	9.1,	116.4,	153.9,	-168.6,	37.0,	8	9.1,	96.9,	147.3,	-170.5,	20.6,
9	9.1,	75.3,	136.3,	-167.1,	3.9,	10	9.1,	97.9,	146.6,	-171.0,	-13.4,
11	9.1,	117.4,	153.0,	-170.4,	-30.2,	12	9.1,	133.4,	154.8,	-164.6,	-46.1,
13	9.1,	145.3,	151.8,	-153.7,	-60.6,	14	9.1,	152.9,	144.3,	-138.2,	-73.3,
15	9.1,	68.5,	84.9,	-31.3,	20.2,	16	9.1,	58.8,	84.8,	-35.0,	21.8,
17	9.1,	47.3,	82.1,	-37.6,	22.8,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	49.3,	82.2,	-45.4,	22.8,	20	9.1,	60.6,	84.5,	-50.4,	21.6,
21	9.1,	70.1,	84.2,	-53.9,	19.8,	22	9.1,	151.8,	145.3,	-12.0,	-77.8,
23	9.1,	144.3,	152.9,	-3.1,	-66.1,	24	9.1,	132.4,	155.7,	5.9,	-52.3,
25	9.1,	116.4,	153.9,	14.7,	-37.0,	26	9.1,	82.1,	47.3,	-46.4,	3.5,
27	9.1,	77.4,	36.5,	-41.5,	-0.3,	28	9.1,	82.2,	49.3,	-47.4,	-4.3,
29	9.1,	117.4,	153.0,	17.4,	30.2,	30	9.1,	133.4,	154.8,	9.8,	46.1,
31	9.1,	145.3,	151.8,	1.9,	60.6,	32	9.1,	152.9,	144.3,	-6.1,	73.3,
33	9.1,	68.5,	84.9,	-53.5,	-20.2,	34	9.1,	58.8,	84.8,	-49.8,	-21.8,
35	9.1,	47.3,	82.1,	-44.5,	-22.8,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK29

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	93.5,	159.3,	-108.7,	-51.0,	2	9.1,	115.9,	163.6,	-101.5,	-55.1,
3	9.1,	134.7,	163.0,	-91.3,	-57.6,	4	9.1,	149.5,	157.3,	-78.2,	-58.3,
5	9.1,	159.8,	146.9,	-62.9,	-57.3,	6	9.1,	165.2,	132.1,	-45.6,	-54.5,
7	9.1,	165.6,	113.2,	-26.9,	-50.1,	8	9.1,	160.9,	90.9,	-7.4,	-44.1,
9	9.1,	77.4,	36.5,	-80.2,	40.4,	10	9.1,	82.2,	49.3,	-92.7,	29.0,
11	9.1,	84.5,	60.6,	-102.4,	16.8,	12	9.1,	84.2,	70.1,	-109.0,	4.0,
13	9.1,	81.4,	77.4,	-112.3,	-8.9,	14	9.1,	76.1,	82.4,	-112.1,	-21.6,
15	9.1,	68.5,	84.9,	-108.6,	-33.5,	16	9.1,	113.2,	165.6,	-32.7,	29.7,
17	9.1,	90.9,	160.9,	-36.3,	38.1,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	93.5,	159.3,	-50.6,	51.0,	20	9.1,	115.9,	163.6,	-62.1,	55.1,
21	9.1,	134.7,	163.0,	-71.7,	57.6,	22	9.1,	149.5,	157.3,	-79.1,	58.3,
23	9.1,	159.8,	146.9,	-84.1,	57.3,	24	9.1,	165.2,	132.1,	-86.5,	54.5,
25	9.1,	165.6,	113.2,	-86.3,	50.1,	26	9.1,	160.9,	90.9,	-83.5,	44.1,
27	9.1,	151.4,	68.2,	-79.4,	36.8,	28	9.1,	159.3,	93.5,	-97.7,	29.0,
29	9.1,	163.6,	115.9,	-113.0,	19.7,	30	9.1,	163.0,	134.7,	-125.0,	9.8,
31	9.1,	157.3,	149.5,	-133.1,	-0.4,	32	9.1,	146.9,	159.8,	-137.2,	-10.6,
33	9.1,	132.1,	165.2,	-137.1,	-20.5,	34	9.1,	113.2,	165.6,	-132.9,	-29.7,
35	9.1,	90.9,	160.9,	-124.6,	-38.1,	36	0.0,	0.0,	0.0,	0.0,	0.0,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK30

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	93.5,	159.3,	-44.0,	-39.4,	2	9.1,	115.9,	163.6,	-39.9,	-32.5,
3	9.1,	134.7,	163.0,	-34.5,	-24.6,	4	9.1,	149.5,	157.3,	-28.1,	-16.0,
5	9.1,	159.8,	146.9,	-20.8,	-6.9,	6	9.1,	165.2,	132.1,	-12.9,	2.4,
7	9.1,	165.6,	113.2,	-4.6,	11.7,	8	9.1,	160.9,	90.9,	3.8,	20.6,
9	9.1,	151.4,	68.2,	11.0,	28.8,	10	9.1,	159.3,	93.5,	-7.3,	35.6,
11	9.1,	163.6,	115.9,	-25.4,	41.9,	12	9.1,	163.0,	134.7,	-42.8,	47.0,
13	9.1,	157.3,	149.5,	-58.8,	50.6,	14	9.1,	146.9,	159.8,	-73.0,	52.7,
15	9.1,	132.1,	165.2,	-85.0,	53.1,	16	9.1,	113.2,	165.6,	-94.5,	52.0,
17	9.1,	90.9,	160.9,	-101.0,	49.3,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	93.5,	159.3,	-115.3,	39.4,	20	9.1,	115.9,	163.6,	-123.7,	32.5,
21	9.1,	134.7,	163.0,	-128.5,	24.6,	22	9.1,	149.5,	157.3,	-129.2,	16.0,
23	9.1,	159.8,	146.9,	-126.1,	6.9,	24	9.1,	165.2,	132.1,	-119.2,	-2.4,
25	9.1,	165.6,	113.2,	-108.6,	-11.7,	26	9.1,	160.9,	90.9,	-94.7,	-20.6,
27	9.1,	151.4,	68.2,	-79.2,	-28.8,	28	9.1,	159.3,	93.5,	-86.1,	-35.6,
29	9.1,	163.6,	115.9,	-90.4,	-41.9,	30	9.1,	163.0,	134.7,	-92.0,	-47.0,
31	9.1,	157.3,	149.5,	-90.8,	-50.6,	32	9.1,	146.9,	159.8,	-86.8,	-52.7,
33	9.1,	132.1,	165.2,	-80.1,	-53.1,	34	9.1,	113.2,	165.6,	-71.1,	-52.0,
35	9.1,	90.9,	160.9,	-59.9,	-49.3,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK31

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	49.2,	81.9,	-43.7,	-25.6,	2	9.1,	60.6,	84.2,	-40.4,	-25.6,
3	9.1,	153.9,	131.1,	-120.9,	79.1,	4	9.1,	150.5,	143.5,	-140.0,	68.2,
5	9.1,	142.5,	151.6,	-154.9,	55.2,	6	9.1,	130.2,	155.1,	-165.0,	40.5,
7	9.1,	113.9,	153.8,	-170.2,	24.6,	8	9.1,	94.2,	147.9,	-170.2,	8.0,
9	9.1,	72.4,	137.5,	-165.0,	-8.5,	10	9.1,	94.8,	146.8,	-166.8,	-24.9,
11	9.1,	114.7,	152.7,	-163.9,	-40.7,	12	9.1,	131.1,	153.9,	-156.1,	-55.3,
13	9.1,	143.5,	150.5,	-143.4,	-68.2,	14	9.1,	151.6,	142.5,	-126.5,	-79.1,
15	9.1,	68.3,	85.4,	-24.2,	17.6,	16	9.1,	58.6,	85.5,	-27.6,	20.5,
17	9.1,	47.2,	82.9,	-30.2,	22.8,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	9.1,	49.2,	81.9,	-38.2,	25.6,	20	9.1,	60.6,	84.2,	-43.8,	25.6,
21	9.1,	153.9,	131.1,	-10.2,	-79.1,	22	9.1,	150.5,	143.5,	-3.5,	-68.2,
23	9.1,	142.5,	151.6,	3.3,	-55.2,	24	9.1,	130.2,	155.1,	10.0,	-40.5,
25	9.1,	113.9,	153.8,	16.4,	-24.6,	26	9.1,	82.9,	47.2,	-46.4,	11.3,
27	9.1,	77.8,	36.2,	-42.8,	7.1,	28	9.1,	81.9,	49.2,	-50.1,	2.7,
29	9.1,	114.7,	152.7,	11.3,	40.7,	30	9.1,	131.1,	153.9,	2.1,	55.3,
31	9.1,	143.5,	150.5,	-7.1,	68.2,	32	9.1,	151.6,	142.5,	-16.1,	79.1,
33	9.1,	68.3,	85.4,	-61.2,	-17.6,	34	9.1,	58.6,	85.5,	-57.8,	-20.5,
35	9.1,	47.2,	82.9,	-52.7,	-22.8,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK32

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	146.8,	94.8,	-86.2,	-36.4,	2	9.1,	152.7,	114.7,	-89.2,	-42.8,
3	9.1,	153.9,	131.1,	-89.5,	-47.8,	4	9.1,	150.5,	143.5,	-87.1,	-51.3,
5	9.1,	142.5,	151.6,	-82.0,	-53.3,	6	9.1,	130.2,	155.1,	-74.5,	-53.7,
7	9.1,	113.9,	153.8,	-64.6,	-52.4,	8	9.1,	94.2,	147.9,	-52.9,	-49.6,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	94.8,	146.8,	-36.9,	-38.8,
11	9.1,	114.7,	152.7,	-33.6,	-31.9,	12	9.1,	131.1,	153.9,	-29.2,	-24.0,

13	9.1,	143.5,	150.5,	-23.9,	-15.4,	14	9.1,	151.6,	142.5,	-18.0,	-6.2,
15	9.1,	155.1,	130.2,	-11.4,	3.1,	16	9.1,	153.8,	113.9,	-4.5,	12.3,
17	9.1,	147.9,	94.2,	2.5,	21.1,	18	9.1,	137.5,	72.4,	8.6,	29.3,
19	9.1,	146.8,	94.8,	-8.5,	36.4,	20	9.1,	152.7,	114.7,	-25.4,	42.8,
21	9.1,	153.9,	131.1,	-41.6,	47.8,	22	9.1,	150.5,	143.5,	-56.4,	51.3,
23	9.1,	142.5,	151.6,	-69.6,	53.3,	24	9.1,	130.2,	155.1,	-80.6,	53.7,
25	9.1,	113.9,	153.8,	-89.2,	52.4,	26	9.1,	94.2,	147.9,	-95.0,	49.6,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	94.8,	146.8,	-109.8,	38.8,
29	9.1,	114.7,	152.7,	-119.1,	31.9,	30	9.1,	131.1,	153.9,	-124.7,	24.0,
31	9.1,	143.5,	150.5,	-126.6,	15.4,	32	9.1,	151.6,	142.5,	-124.6,	6.2,
33	9.1,	155.1,	130.2,	-118.8,	-3.1,	34	9.1,	153.8,	113.9,	-109.4,	-12.3,
35	9.1,	147.9,	94.2,	-96.7,	-21.1,	36	9.1,	137.5,	72.4,	-81.0,	-29.3,

SOURCE ID: STCK33

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	146.8,	94.8,	-97.7,	32.1,	2	9.1,	152.7,	114.7,	-112.4,	22.8,
3	9.1,	153.9,	131.1,	-123.8,	12.8,	4	9.1,	150.5,	143.5,	-131.3,	2.3,
5	9.1,	142.5,	151.6,	-134.9,	-8.1,	6	9.1,	130.2,	155.1,	-134.4,	-18.4,
7	9.1,	113.9,	153.8,	-129.8,	-28.1,	8	9.1,	94.2,	147.9,	-121.2,	-36.9,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	94.8,	146.8,	-105.5,	-50.3,
11	9.1,	114.7,	152.7,	-99.1,	-55.1,	12	9.1,	131.1,	153.9,	-89.7,	-58.2,
13	9.1,	143.5,	150.5,	-77.6,	-59.6,	14	9.1,	151.6,	142.5,	-63.1,	-59.1,
15	9.1,	155.1,	130.2,	-46.7,	-56.8,	16	9.1,	153.8,	113.9,	-28.9,	-52.9,
17	9.1,	147.9,	94.2,	-10.2,	-47.3,	18	9.1,	137.5,	72.4,	8.0,	-40.2,
19	9.1,	146.8,	94.8,	2.9,	-32.1,	20	9.1,	152.7,	114.7,	-2.2,	-22.8,
21	9.1,	153.9,	131.1,	-7.3,	-12.8,	22	9.1,	150.5,	143.5,	-12.2,	-2.3,
23	9.1,	142.5,	151.6,	-16.7,	8.1,	24	9.1,	130.2,	155.1,	-20.7,	18.4,
25	9.1,	113.9,	153.8,	-24.1,	28.1,	26	9.1,	94.2,	147.9,	-26.7,	36.9,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	94.8,	146.8,	-41.2,	50.3,
29	9.1,	114.7,	152.7,	-53.5,	55.1,	30	9.1,	131.1,	153.9,	-64.2,	58.2,
31	9.1,	143.5,	150.5,	-72.9,	59.6,	32	9.1,	151.6,	142.5,	-79.4,	59.1,
33	9.1,	155.1,	130.2,	-83.5,	56.8,	34	9.1,	153.8,	113.9,	-85.0,	52.9,
35	9.1,	147.9,	94.2,	-84.0,	47.3,	36	9.1,	137.5,	72.4,	-80.4,	40.2,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK34

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	9.1,	47.7,	51.1,	-54.0,	-7.5,	2	9.1,	53.4,	55.7,	-54.7,	-12.2,
3	9.1,	57.4,	58.6,	-53.7,	-16.7,	4	9.1,	83.6,	79.5,	-108.7,	37.4,
5	9.1,	80.2,	83.1,	-116.0,	24.8,	6	9.1,	74.3,	84.1,	-119.6,	11.5,
7	9.1,	66.1,	82.6,	-119.7,	-2.1,	8	9.1,	56.0,	78.6,	-116.1,	-15.7,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	9.1,	51.1,	47.7,	-16.4,	-28.5,

11	9.1,	55.7,	53.4,	-14.5,	-26.9,	12	9.1,	58.6,	57.4,	-12.1,	-24.4,
13	9.1,	59.7,	59.7,	-9.3,	-21.2,	14	9.1,	59.0,	60.2,	-6.3,	-17.4,
15	9.1,	68.3,	85.4,	-107.3,	35.0,	16	9.1,	58.6,	85.5,	-112.4,	23.2,
17	9.1,	47.2,	82.9,	-114.1,	10.7,	18	9.1,	36.2,	77.8,	-112.4,	-1.8,
19	9.1,	49.2,	81.9,	-113.0,	-14.5,	20	9.1,	60.6,	84.2,	-110.5,	-26.8,
21	9.1,	70.2,	84.0,	-104.6,	-38.3,	22	9.1,	59.7,	59.7,	-8.6,	20.6,
23	9.1,	60.2,	59.0,	-12.1,	23.8,	24	9.1,	58.9,	56.5,	-15.2,	26.4,
25	9.1,	55.7,	52.3,	-17.9,	28.1,	26	9.1,	50.9,	46.5,	-20.0,	29.0,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	9.1,	51.1,	47.7,	-31.4,	28.5,
29	9.1,	55.7,	53.4,	-39.0,	26.9,	30	9.1,	58.6,	57.4,	-45.4,	24.4,
31	9.1,	59.7,	59.7,	-50.4,	21.2,	32	9.1,	59.0,	60.2,	-53.9,	17.4,
33	9.1,	56.5,	58.9,	-55.8,	13.0,	34	9.1,	52.3,	55.7,	-56.0,	8.3,
35	9.1,	46.5,	50.9,	-54.5,	3.3,	36	9.1,	40.6,	44.9,	-51.7,	-2.5,

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

541890.5, 542097.6, 542304.7, 542511.8, 542718.9, 542926.0, 543133.1, 543340.2, 543547.3, 543754.4,
543961.5, 544168.6, 544375.7, 544582.8, 544789.9, 544997.0, 545204.1, 545411.2, 545618.3, 545825.4,
546032.5,

*** Y-COORDINATES OF GRID ***
(METERS)

3753173.3, 3753374.4, 3753575.4, 3753776.4, 3753977.5, 3754178.5, 3754379.5, 3754580.6, 3754781.6, 3754982.6,
3755183.6, 3755384.7, 3755585.7, 3755786.7, 3755987.8, 3756188.8, 3756389.8, 3756590.9, 3756791.9, 3756992.9,
3757193.9,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	541890.52	542097.62	542304.72	542511.82	542718.92	542926.02	543133.12	543340.22	543547.32

3757193.95	346.00	341.60	338.70	336.40	334.60	332.50	329.70	327.90	324.10
3756992.92	341.40	337.70	334.80	332.10	330.40	329.00	325.70	323.90	321.10
3756791.89	337.40	333.80	330.80	327.80	325.80	323.90	322.00	319.50	317.30
3756590.86	332.50	329.40	326.70	324.10	321.50	319.80	316.90	315.40	313.90
3756389.83	328.10	325.30	322.30	319.70	317.30	315.70	312.80	311.70	310.70
3756188.80	323.50	320.70	317.80	315.30	313.50	311.80	309.40	307.30	306.40
3755987.77	319.10	316.20	313.70	311.10	309.20	307.00	305.50	303.50	302.30
3755786.74	314.70	311.60	309.80	307.70	305.70	303.40	301.60	300.30	298.60
3755585.71	310.10	307.60	306.10	303.80	301.70	299.50	297.60	296.70	294.40
3755384.68	305.70	303.00	301.50	299.70	297.40	295.20	294.00	293.00	291.10
3755183.65	301.00	298.40	296.90	295.50	293.30	290.70	289.70	289.00	287.40
3754982.62	296.00	294.10	292.50	291.20	289.20	286.80	286.40	284.90	283.50
3754781.59	291.10	289.50	287.90	286.40	284.80	283.00	281.60	280.60	279.80
3754580.56	286.20	284.80	283.50	281.90	280.30	278.80	277.60	276.70	275.50
3754379.53	281.10	279.80	278.90	277.30	275.90	274.40	273.80	272.80	271.60
3754178.50	276.10	275.30	274.20	272.70	271.50	270.00	269.60	269.20	267.70
3753977.47	270.90	270.20	269.20	268.10	267.00	265.70	265.30	264.80	263.80
3753776.44	265.90	265.30	264.80	263.80	262.40	261.40	261.10	260.70	260.10
3753575.41	261.20	260.80	260.50	259.70	258.70	256.90	257.30	257.00	256.70
3753374.38	257.20	256.20	256.10	255.60	254.70	253.50	253.30	253.10	252.80
3753173.35	252.00	251.20	251.30	250.90	250.20	249.50	249.60	249.50	248.90

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 543754.42	543961.52	544168.62	544375.72	544582.82	544789.92	544997.02	545204.12	545411.22
3757193.95	323.90	320.00	318.60	317.60	314.80	311.80	311.80	309.60	307.50
3756992.92	318.70	317.20	315.00	313.60	312.30	308.30	307.20	305.30	303.90
3756791.89	314.80	313.50	311.10	309.60	308.20	306.50	304.20	302.40	300.50
3756590.86	310.80	309.80	307.50	305.20	304.20	302.60	300.50	299.30	297.20
3756389.83	307.90	306.00	304.40	302.00	301.20	298.90	297.30	295.50	293.80
3756188.80	304.20	302.50	300.10	299.40	298.10	295.10	294.00	291.60	290.40
3755987.77	300.60	299.10	297.10	295.10	293.60	291.90	290.40	288.70	287.00
3755786.74	296.60	295.00	293.30	291.50	290.50	289.00	287.00	285.60	283.80
3755585.71	292.70	291.00	289.80	288.20	287.40	286.00	284.10	282.10	280.40
3755384.68	288.50	287.00	286.30	285.20	283.80	282.60	281.10	278.90	277.00
3755183.65	285.40	283.50	282.70	282.00	281.00	279.20	277.50	276.00	273.60
3754982.62	281.20	279.90	279.10	278.20	276.90	275.30	273.60	272.80	270.80
3754781.59	277.70	276.30	275.60	274.40	273.30	272.20	270.80	269.30	268.20
3754580.56	273.90	272.90	272.20	270.90	269.80	268.90	268.10	266.60	265.00
3754379.53	270.30	268.90	269.00	267.40	266.20	265.20	264.80	263.20	261.80
3754178.50	266.70	265.60	264.90	263.90	262.60	261.70	261.30	260.60	258.70

3753977.47	263.10	261.90	261.20	260.40	259.40	258.70	258.30	257.50	256.50
3753776.44	258.80	257.20	258.10	257.20	256.20	255.40	254.90	254.20	253.10
3753575.41	255.40	255.00	254.70	253.90	252.70	251.50	251.10	250.80	249.80
3753374.38	252.40	251.00	251.50	250.60	249.40	248.50	247.90	247.10	246.50
3753173.35	248.70	247.70	247.50	247.20	246.20	244.90	244.90	243.20	243.20

*** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	545618.32	545825.42	546032.52
3757193.95	305.20	303.50	302.40
3756992.92	301.80	299.30	297.30
3756791.89	299.30	295.70	293.00
3756590.86	295.30	292.70	289.80
3756389.83	292.00	289.30	286.90
3756188.80	288.70	286.00	283.80
3755987.77	285.30	283.00	280.30
3755786.74	281.80	280.10	277.70
3755585.71	279.00	277.10	275.20
3755384.68	275.70	274.00	272.10
3755183.65	272.50	270.70	269.20
3754982.62	269.30	267.80	265.80
3754781.59	266.30	264.80	262.90
3754580.56	263.50	262.10	260.40
3754379.53	260.90	259.40	258.00
3754178.50	258.30	256.90	256.20
3753977.47	255.80	254.20	252.60
3753776.44	252.50	251.20	249.60
3753575.41	249.30	248.00	246.70
3753374.38	246.00	244.70	243.60
3753173.35	242.90	241.60	240.50

*** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD	X-COORD (METERS)

(METERS)	541890.52	542097.62	542304.72	542511.82	542718.92	542926.02	543133.12	543340.22	543547.32
3757193.95	346.00	341.60	338.70	336.40	334.60	332.50	329.70	327.90	324.10
3756992.92	341.40	337.70	334.80	332.10	330.40	329.00	325.70	323.90	321.10
3756791.89	337.40	333.80	330.80	327.80	325.80	323.90	322.00	319.50	317.30
3756590.86	332.50	329.40	326.70	324.10	321.50	319.80	316.90	315.40	313.90
3756389.83	328.10	325.30	322.30	319.70	317.30	315.70	312.80	311.70	310.70
3756188.80	323.50	320.70	317.80	315.30	313.50	311.80	309.40	307.30	306.40
3755987.77	319.10	316.20	313.70	311.10	309.20	307.00	305.50	303.50	302.30
3755786.74	314.70	311.60	309.80	307.70	305.70	303.40	301.60	300.30	298.60
3755585.71	310.10	307.60	306.10	303.80	301.70	299.50	297.60	296.70	294.40
3755384.68	305.70	303.00	301.50	299.70	297.40	295.20	294.00	293.00	291.10
3755183.65	301.00	298.40	296.90	295.50	293.30	290.70	289.70	289.00	287.40
3754982.62	296.00	294.10	292.50	291.20	289.20	286.80	286.40	284.90	283.50
3754781.59	291.10	289.50	287.90	286.40	284.80	283.00	281.60	280.60	279.80
3754580.56	286.20	284.80	283.50	281.90	280.30	278.80	277.60	276.70	275.50
3754379.53	281.10	279.80	278.90	277.30	275.90	274.40	273.80	272.80	271.60
3754178.50	276.10	275.30	274.20	272.70	271.50	270.00	269.60	269.20	267.70
3753977.47	270.90	270.20	269.20	268.10	267.00	265.70	265.30	264.80	263.80
3753776.44	265.90	265.30	264.80	263.80	262.40	261.40	261.10	260.70	260.10
3753575.41	261.20	260.80	260.50	259.70	258.70	256.90	257.30	257.00	256.70
3753374.38	257.20	256.20	256.10	255.60	254.70	253.50	253.30	253.10	252.80
3753173.35	252.00	251.20	251.30	250.90	250.20	249.50	249.60	249.50	248.90

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 543754.42	543961.52	544168.62	544375.72	544582.82	544789.92	544997.02	545204.12	545411.22
3757193.95	323.90	320.00	318.60	317.60	314.80	311.80	311.80	309.60	307.50
3756992.92	318.70	317.20	315.00	313.60	312.30	308.30	307.20	305.30	303.90
3756791.89	314.80	313.50	311.10	309.60	308.20	306.50	304.20	302.40	300.50
3756590.86	310.80	309.80	307.50	305.20	304.20	302.60	300.50	299.30	297.20
3756389.83	307.90	306.00	304.40	302.00	301.20	298.90	297.30	295.50	293.80
3756188.80	304.20	302.50	300.10	299.40	298.10	295.10	294.00	291.60	290.40
3755987.77	300.60	299.10	297.10	295.10	293.60	291.90	290.40	288.70	287.00
3755786.74	296.60	295.00	293.30	291.50	290.50	289.00	287.00	285.60	283.80
3755585.71	292.70	291.00	289.80	288.20	287.40	286.00	284.10	282.10	280.40
3755384.68	288.50	287.00	286.30	285.20	283.80	282.60	281.10	278.90	277.00
3755183.65	285.40	283.50	282.70	282.00	281.00	279.20	277.50	276.00	273.60
3754982.62	281.20	279.90	279.10	278.20	276.90	275.30	273.60	272.80	270.80
3754781.59	277.70	276.30	275.60	274.40	273.30	272.20	270.80	269.30	268.20

3754580.56	273.90	272.90	272.20	270.90	269.80	268.90	268.10	266.60	265.00
3754379.53	270.30	268.90	269.00	267.40	266.20	265.20	264.80	263.20	261.80
3754178.50	266.70	265.60	264.90	263.90	262.60	261.70	261.30	260.60	258.70
3753977.47	263.10	261.90	261.20	260.40	259.40	258.70	258.30	257.50	256.50
3753776.44	258.80	257.20	258.10	257.20	256.20	255.40	254.90	254.20	253.10
3753575.41	255.40	255.00	254.70	253.90	252.70	251.50	251.10	250.80	249.80
3753374.38	252.40	251.00	251.50	250.60	249.40	248.50	247.90	247.10	246.50
3753173.35	248.70	247.70	247.50	247.20	246.20	244.90	244.90	243.20	243.20

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	545618.32	545825.42	546032.52
3757193.95	305.20	303.50	302.40
3756992.92	301.80	299.30	297.30
3756791.89	299.30	295.70	293.00
3756590.86	295.30	292.70	289.80
3756389.83	292.00	289.30	286.90
3756188.80	288.70	286.00	283.80
3755987.77	285.30	283.00	280.30
3755786.74	281.80	280.10	277.70
3755585.71	279.00	277.10	275.20
3755384.68	275.70	274.00	272.10
3755183.65	272.50	270.70	269.20
3754982.62	269.30	267.80	265.80
3754781.59	266.30	264.80	262.90
3754580.56	263.50	262.10	260.40
3754379.53	260.90	259.40	258.00
3754178.50	258.30	256.90	256.20
3753977.47	255.80	254.20	252.60
3753776.44	252.50	251.20	249.60
3753575.41	249.30	248.00	246.70
3753374.38	246.00	244.70	243.60
3753173.35	242.90	241.60	240.50

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)

(METERS)

```
    ( 544500.6, 3754666.1,     271.7,     271.7,       0.0);        ( 544584.3, 3754650.7,     271.0,     271.0,       0.0);
    ( 544743.7, 3754712.4,     271.3,     271.3,       0.0);        ( 544823.4, 3754797.3,     272.3,     272.3,       0.0);
    ( 543275.5, 3754553.0,     276.5,     276.5,       0.0);        ( 542202.5, 3753909.1,     268.2,     268.2,       0.0);
    ( 542020.5, 3753897.7,     268.8,     268.8,       0.0);        ( 542046.1, 3753764.4,     265.1,     265.1,       0.0);
    ( 544597.4, 3754047.3,     260.5,     260.5,       0.0);        ( 545870.8, 3753922.6,     253.0,     253.0,       0.0);
    ( 543677.7, 3756399.9,     308.6,     308.6,       0.0);        ( 544963.5, 3756388.6,     297.5,     297.5,       0.0);
    ( 545339.0, 3756356.7,     294.1,     294.1,       0.0);
```


* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
L0046611	543961.5	3755183.6	-0.49
L0046612	543961.5	3755183.6	-1.50

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54,   3.09,   5.14,   8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

  Surface file: ..\DesertHotSpringsAirportADJU\KTRM_V9_ADJU\KTRM_v9.SFC   Met Version: 16216
  Profile file: ..\..\..\..\..\Dropbox\Kunzman\Projects\6627 DHS 109\HRA\KTRM_V9_ADJU\KTRM_v9.PF
  Surface format: FREE
  Profile format: FREE
  Surface station no.:   3104   Upper air station no.:   3190
                Name: UNKNOWN   Name: UNKNOWN
                Year: 2012   Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-7.8	0.118	-9.000	-9.000	-999.	98.	19.4	0.08	1.91	1.00	1.59	77.	10.1	278.8	2.0
12	01	01	1	02	-15.8	0.171	-9.000	-9.000	-999.	169.	32.1	0.08	1.91	1.00	2.23	288.	10.1	277.5	2.0
12	01	01	1	03	-16.9	0.177	-9.000	-9.000	-999.	178.	34.3	0.08	1.91	1.00	2.30	325.	10.1	278.8	2.0
12	01	01	1	04	-3.0	0.076	-9.000	-9.000	-999.	56.	13.4	0.08	1.91	1.00	0.94	321.	10.1	275.4	2.0
12	01	01	1	05	-4.7	0.092	-9.000	-9.000	-999.	67.	15.0	0.08	1.91	1.00	1.23	342.	10.1	274.2	2.0
12	01	01	1	06	-10.7	0.139	-9.000	-9.000	-999.	124.	22.8	0.08	1.91	1.00	1.84	309.	10.1	274.9	2.0
12	01	01	1	07	-18.8	0.186	-9.000	-9.000	-999.	193.	38.2	0.08	1.91	1.00	2.42	338.	10.1	277.0	2.0
12	01	01	1	08	-11.5	0.179	-9.000	-9.000	-999.	182.	45.7	0.08	1.91	0.49	2.30	343.	10.1	282.5	2.0
12	01	01	1	09	44.9	0.190	0.372	0.007	42.	198.	-13.9	0.08	1.91	0.30	1.86	334.	10.1	288.8	2.0
12	01	01	1	10	109.3	0.237	0.720	0.006	125.	278.	-11.2	0.08	1.91	0.23	2.27	333.	10.1	293.8	2.0
12	01	01	1	11	153.1	0.246	1.122	0.005	338.	293.	-8.9	0.08	1.91	0.21	2.28	348.	10.1	297.0	2.0
12	01	01	1	12	173.2	0.204	1.424	0.005	612.	222.	-4.5	0.08	1.91	0.20	1.72	322.	10.1	298.8	2.0
12	01	01	1	13	169.9	0.156	1.670	0.005	1005.	148.	-2.0	0.08	1.91	0.20	1.14	351.	10.1	300.4	2.0
12	01	01	1	14	142.4	0.144	1.714	0.005	1296.	131.	-1.9	0.08	1.91	0.22	1.04	329.	10.1	300.9	2.0
12	01	01	1	15	92.8	0.142	1.542	0.005	1447.	129.	-2.8	0.08	1.91	0.25	1.11	316.	10.1	301.4	2.0
12	01	01	1	16	24.5	0.122	0.995	0.005	1469.	102.	-6.8	0.08	1.91	0.35	1.09	301.	10.1	300.4	2.0
12	01	01	1	17	-3.0	0.077	-9.000	-9.000	-999.	51.	13.7	0.08	1.91	0.65	0.99	209.	10.1	292.0	2.0
12	01	01	1	18	-11.9	0.149	-9.000	-9.000	-999.	138.	25.2	0.08	1.91	1.00	1.96	149.	10.1	286.4	2.0
12	01	01	1	19	-6.4	0.107	-9.000	-9.000	-999.	85.	17.7	0.08	1.91	1.00	1.45	31.	10.1	284.9	2.0
12	01	01	1	20	-15.7	0.171	-9.000	-9.000	-999.	169.	32.1	0.08	1.91	1.00	2.23	327.	10.1	283.1	2.0
12	01	01	1	21	-8.3	0.122	-9.000	-9.000	-999.	103.	20.2	0.08	1.91	1.00	1.64	347.	10.1	282.0	2.0
12	01	01	1	22	-7.9	0.119	-9.000	-9.000	-999.	99.	19.6	0.08	1.91	1.00	1.60	316.	10.1	279.2	2.0
12	01	01	1	23	-5.3	0.097	-9.000	-9.000	-999.	73.	15.9	0.08	1.91	1.00	1.31	325.	10.1	278.1	2.0
12	01	01	1	24	-9.4	0.130	-9.000	-9.000	-999.	113.	21.5	0.08	1.91	1.00	1.74	304.	10.1	278.8	2.0

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	10.1	1	77.	1.59	278.8	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                          *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL   ***
                              INCLUDING SOURCE(S):   L0046098   , L0046099   , L0046100   , L0046101   , L0046102   ,
                 L0046103   , L0046104   , L0046105   , L0046106   , L0046107   , L0046108   , L0046109   , L0046110   ,
                 L0046111   , L0046112   , L0046113   , L0046114   , L0046115   , L0046116   , L0046117   , L0046118   ,
                 L0046119   , L0046120   , L0046121   , L0046122   , L0046123   , L0046124   , L0046125   , . . .   ,

                               *** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART ***

                                    ** CONC OF DPM   IN MICROGRAMS/M**3   **

Y-COORD (METERS)	X-COORD (METERS)								
	541890.52	542097.62	542304.72	542511.82	542718.92	542926.02	543133.12	543340.22	543547.32
3757193.95	0.00006	0.00007	0.00008	0.00009	0.00010	0.00011	0.00012	0.00012	0.00016
3756992.92	0.00006	0.00007	0.00009	0.00010	0.00012	0.00013	0.00014	0.00015	0.00019
3756791.89	0.00006	0.00008	0.00009	0.00011	0.00013	0.00015	0.00018	0.00020	0.00024
3756590.86	0.00007	0.00008	0.00009	0.00012	0.00014	0.00018	0.00022	0.00025	0.00031
3756389.83	0.00007	0.00008	0.00010	0.00012	0.00016	0.00020	0.00025	0.00031	0.00040
3756188.80	0.00007	0.00008	0.00010	0.00013	0.00016	0.00021	0.00029	0.00039	0.00054
3755987.77	0.00007	0.00008	0.00010	0.00013	0.00017	0.00023	0.00031	0.00046	0.00072
3755786.74	0.00007	0.00009	0.00010	0.00013	0.00017	0.00023	0.00033	0.00051	0.00094
3755585.71	0.00007	0.00009	0.00010	0.00013	0.00017	0.00023	0.00034	0.00053	0.00107
3755384.68	0.00007	0.00009	0.00011	0.00014	0.00018	0.00024	0.00034	0.00053	0.00106
3755183.65	0.00008	0.00010	0.00011	0.00014	0.00018	0.00025	0.00035	0.00053	0.00102
3754982.62	0.00009	0.00010	0.00012	0.00015	0.00019	0.00026	0.00035	0.00053	0.00097
3754781.59	0.00010	0.00011	0.00014	0.00016	0.00020	0.00026	0.00035	0.00050	0.00089
3754580.56	0.00011	0.00013	0.00015	0.00018	0.00021	0.00026	0.00034	0.00047	0.00082
3754379.53	0.00012	0.00014	0.00016	0.00019	0.00022	0.00026	0.00033	0.00044	0.00076
3754178.50	0.00014	0.00018	0.00020	0.00023	0.00026	0.00029	0.00035	0.00044	0.00073
3753977.47	0.00019	0.00050	0.00054	0.00057	0.00059	0.00063	0.00068	0.00076	0.00095
3753776.44	0.00021	0.00055	0.00037	0.00038	0.00039	0.00042	0.00046	0.00051	0.00061
3753575.41	0.00020	0.00052	0.00025	0.00024	0.00025	0.00027	0.00030	0.00035	0.00042
3753374.38	0.00019	0.00049	0.00021	0.00019	0.00020	0.00022	0.00025	0.00028	0.00034
3753173.35	0.00015	0.00043	0.00019	0.00017	0.00017	0.00019	0.00021	0.00024	0.00028

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                          *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL   ***
                              INCLUDING SOURCE(S):   L0046098   , L0046099   , L0046100   , L0046101   , L0046102   ,
                 L0046103   , L0046104   , L0046105   , L0046106   , L0046107   , L0046108   , L0046109   , L0046110   ,
                 L0046111   , L0046112   , L0046113   , L0046114   , L0046115   , L0046116   , L0046117   , L0046118   ,
                 L0046119   , L0046120   , L0046121   , L0046122   , L0046123   , L0046124   , L0046125   , . . .   ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	543754.42	543961.52	544168.62	544375.72	544582.82	544789.92	544997.02	545204.12	545411.22
3757193.95	0.00019	0.00012	0.00011	0.00010	0.00009	0.00009	0.00008	0.00008	0.00007
3756992.92	0.00030	0.00016	0.00013	0.00012	0.00011	0.00011	0.00010	0.00009	0.00009
3756791.89	0.00036	0.00021	0.00018	0.00016	0.00015	0.00013	0.00013	0.00011	0.00011
3756590.86	0.00044	0.00028	0.00025	0.00022	0.00020	0.00018	0.00017	0.00015	0.00014
3756389.83	0.00081	0.00066	0.00062	0.00060	0.00060	0.00061	0.00061	0.00055	0.00051
3756188.80	0.00085	0.00057	0.00049	0.00042	0.00037	0.00033	0.00029	0.00026	0.00024
3755987.77	0.00113	0.00085	0.00073	0.00058	0.00046	0.00038	0.00031	0.00027	0.00024
3755786.74	0.00175	0.00165	0.00144	0.00100	0.00069	0.00050	0.00039	0.00032	0.00027
3755585.71	0.00402	0.00495	0.00473	0.00254	0.00116	0.00073	0.00051	0.00039	0.00031
3755384.68	0.00275	0.01025	0.00840	0.01025	0.00203	0.00106	0.00066	0.00046	0.00035
3755183.65	0.00240	0.01416	0.01149	0.01384	0.00359	0.00153	0.00085	0.00055	0.00040
3754982.62	0.00208	0.00339	0.01253	0.01523	0.00464	0.00199	0.00103	0.00065	0.00045
3754781.59	0.00181	0.00234	0.00768	0.01554	0.00463	0.00224	0.00121	0.00075	0.00052
3754580.56	0.00159	0.00167	0.00328	0.00511	0.00392	0.00222	0.00132	0.00085	0.00059
3754379.53	0.00143	0.00128	0.00195	0.00270	0.00268	0.00195	0.00133	0.00091	0.00065
3754178.50	0.00133	0.00106	0.00136	0.00173	0.00184	0.00162	0.00127	0.00095	0.00072
3753977.47	0.00143	0.00116	0.00132	0.00153	0.00165	0.00160	0.00143	0.00122	0.00104
3753776.44	0.00081	0.00084	0.00095	0.00107	0.00116	0.00117	0.00109	0.00095	0.00081
3753575.41	0.00052	0.00062	0.00070	0.00079	0.00086	0.00088	0.00085	0.00077	0.00067
3753374.38	0.00041	0.00049	0.00056	0.00063	0.00068	0.00071	0.00070	0.00066	0.00059
3753173.35	0.00034	0.00040	0.00046	0.00052	0.00056	0.00059	0.00059	0.00057	0.00053

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0046098 , L0046099 , L0046100 , L0046101 , L0046102 ,
L0046103 , L0046104 , L0046105 , L0046106 , L0046107 , L0046108 , L0046109 , L0046110 ,
L0046111 , L0046112 , L0046113 , L0046114 , L0046115 , L0046116 , L0046117 , L0046118 ,
L0046119 , L0046120 , L0046121 , L0046122 , L0046123 , L0046124 , L0046125 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	545618.32	545825.42	546032.52
3757193.95	0.00007	0.00006	0.00006

```
 3756992.92 |       0.00008      0.00007      0.00007
 3756791.89 |       0.00010      0.00009      0.00008
 3756590.86 |       0.00013      0.00012      0.00011
 3756389.83 |       0.00046      0.00048      0.00049
 3756188.80 |       0.00022      0.00021      0.00018
 3755987.77 |       0.00021      0.00019      0.00017
 3755786.74 |       0.00023      0.00020      0.00017
 3755585.71 |       0.00025      0.00021      0.00018
 3755384.68 |       0.00028      0.00023      0.00019
 3755183.65 |       0.00031      0.00025      0.00020
 3754982.62 |       0.00034      0.00027      0.00022
 3754781.59 |       0.00038      0.00030      0.00024
 3754580.56 |       0.00043      0.00033      0.00026
 3754379.53 |       0.00048      0.00037      0.00029
 3754178.50 |       0.00055      0.00043      0.00033
 3753977.47 |       0.00089      0.00078      0.00058
 3753776.44 |       0.00068      0.00057      0.00047
 3753575.41 |       0.00058      0.00048      0.00040
 3753374.38 |       0.00052      0.00045      0.00038
 3753173.35 |       0.00047      0.00042      0.00036

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 2nd 14 years                    ***        05/26/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 2nd 14 years                          ***        07:57:00
                                                                                                                  PAGE 173
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                          *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                              INCLUDING SOURCE(S):     L0046098    , L0046099    , L0046100    , L0046101    , L0046102    ,
              L0046103    , L0046104    , L0046105    , L0046106    , L0046107    , L0046108    , L0046109    , L0046110    ,
              L0046111    , L0046112    , L0046113    , L0046114    , L0046115    , L0046116    , L0046117    , L0046118    ,
              L0046119    , L0046120    , L0046121    , L0046122    , L0046123    , L0046124    , L0046125    ,  . . .      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                    ** CONC OF DPM      IN MICROGRAMS/M**3                        **

      X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)   Y-COORD (M)        CONC
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       544500.58    3754666.10       0.00564                     544584.26    3754650.71       0.00422
       544743.72    3754712.43       0.00263                     544823.38    3754797.27       0.00200
       543275.51    3754552.99       0.00042                     542202.53    3753909.06       0.00153
       542020.54    3753897.71       0.00101                     542046.12    3753764.40       0.00211
       544597.39    3754047.31       0.00158                     545870.84    3753922.64       0.00167
       543677.72    3756399.86       0.00120                     544963.53    3756388.62       0.00065
       545339.03    3756356.66       0.00084

*** AERMOD - VERSION  18081 ***   *** C:\Lakes\AERMOD View\6627 DHS 109 - 2nd 14 years                    ***        05/26/19
*** AERMET - VERSION  16216 ***   *** DHS 109 DPM Concentrations - 2nd 14 years                          ***        07:57:00
                                                                                                                  PAGE 174
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.01554 AT (544375.72, 3754781.59, 274.40, 274.40, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.01523 AT (544375.72, 3754982.62, 278.20, 278.20, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.01416 AT (543961.52, 3755183.65, 283.50, 283.50, 0.00)	GC	UCART1
	4TH HIGHEST VALUE IS	0.01384 AT (544375.72, 3755183.65, 282.00, 282.00, 0.00)	GC	UCART1
	5TH HIGHEST VALUE IS	0.01253 AT (544168.62, 3754982.62, 279.10, 279.10, 0.00)	GC	UCART1
	6TH HIGHEST VALUE IS	0.01149 AT (544168.62, 3755183.65, 282.70, 282.70, 0.00)	GC	UCART1
	7TH HIGHEST VALUE IS	0.01025 AT (543961.52, 3755384.68, 287.00, 287.00, 0.00)	GC	UCART1
	8TH HIGHEST VALUE IS	0.01025 AT (544375.72, 3755384.68, 285.20, 285.20, 0.00)	GC	UCART1
	9TH HIGHEST VALUE IS	0.00840 AT (544168.62, 3755384.68, 286.30, 286.30, 0.00)	GC	UCART1
	10TH HIGHEST VALUE IS	0.00768 AT (544168.62, 3754781.59, 275.60, 275.60, 0.00)	GC	UCART1

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 36 Warning Message(s)
A Total of 1124 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 595 Calm Hours Identified

A Total of 529 Missing Hours Identified (1.21 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********

```
SO W320    4337        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    4338        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    4339        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    4340        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5953        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5954        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5955        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5956        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5957        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5958        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5959        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5960        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5961        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5962        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5963        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5964        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5965        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5966        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5967        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5968        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5969        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5970        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5971        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5972        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5973        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5974        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5975        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5976        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5977        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5978        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5979        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5980        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320    5981        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
ME W340    9231       PRBASE: Possible Error in PROFBASE Input:  Value is < 0        PROFBASE
ME W186    9232       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used           0.50
ME W187    9232       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ************************************
   *** AERMOD Finishes Successfully ***
   ************************************
```

APPENDIX D

CALEEMOD MODEL ANNUAL EMISSIONS PRINTOUTS

6627 DHS 109 - Phase 1

Riverside-Salton Sea County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	68.06	1000sqft	1.56	68,060.00	0
Industrial Park	360.00	1000sqft	8.26	360,000.00	0
Other Asphalt Surfaces	19.00	Acre	19.00	827,640.00	0
Other Non-Asphalt Surfaces	10.45	Acre	10.45	455,202.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

6627 DHS 109 - Phase 1 - Riverside-Salton Sea County, Annual

Project Characteristics -

Land Use - P1 - 39.27 ac- includes 428,060 sf bldgs (84.1% cultivation = 360,000 sf), 6.35 ac power plant site, 179,499 sf (~4.1 ac) basins, & ~50% P1 paving prkg/on-site rdwys (=~19 ac).

Construction Phase - Construction anticipated to start no earlier than July 2019 and end in Q4 2021. P1 to be operational in 2021.

Off-road Equipment -

Off-road Equipment - Building Construction Phase CalEEMod defautl timing decreased by ~30%, equipment has been increased by ~30%.

Off-road Equipment -

Off-road Equipment -

Grading - Site anticipated to balance.

Architectural Coating - SCAQMD Rule 1113 limits architectural coatings to 50g/L VOC. Architectural coatings have been mitigated to 30 g/L VOC for buildings & 100 g/L VOC for parking areas.

Vehicle Trips - Per TIA, 4.96 trips/TSF light industrial & 1,339 trips/920 TSF = 1.46 trips/TSF cultivation. Light industrial 21.4% trks (C-W) & 78.6% autos (CNW). Industrial Park 95% autos (C-NW) & 5% trks (C-W)

Energy Use - Per applicant, Phase 1- IP ~8,272,268.8 kWh/yr & GI ~4,897,095.2 kWh/yr. Converted to kWh/sf/yr & title-24, non-title 24 & lighting based on default %.

Sequestration - Per the landscape architect, ~836 new trees to be planted on-site. Split per bldg square foot. P1 is 33% bldf sf = 276 trees.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - 0

Energy Mitigation - Natural fueled turbine power generators, chillers, solar panels on bldng rooftops & prkng shade structures. Solar to provide ~28,788,662 kWh per year for Phase 1.

Waste Mitigation -

Fleet Mix - Revised vehicle mix per TIA for Light Industrial use of 78.6% Autos, 8% 2-Axle Trucks, 3.9% 3-Axle Trucks & 9.5% 4+ Axle Trucks & industrial park (cultivation use) of 95% autos & 5% 2-axle trucks.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	30.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	30.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	740.00	514.00
tblEnergyUse	LightingElect	2.93	20.72

tblEnergyUse	LightingElect	3.66	8.85
tblEnergyUse	NT24E	5.02	35.62
tblEnergyUse	NT24E	2.79	6.73
tblEnergyUse	T24E	2.20	15.61
tblEnergyUse	T24E	3.07	7.40
tblFleetMix	HHD	0.07	0.10
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.54	0.48
tblFleetMix	LDA	0.54	0.58
tblFleetMix	LDT1	0.04	0.03
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.16
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LHD1	0.02	0.06
tblFleetMix	LHD1	0.02	0.04
tblFleetMix	LHD2	5.1410e-003	0.02
tblFleetMix	LHD2	5.1410e-003	0.01
tblFleetMix	MCY	4.5820e-003	4.0560e-003
tblFleetMix	MCY	4.5820e-003	4.9020e-003
tblFleetMix	MDV	0.12	0.10
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	1.0380e-003	0.00
tblFleetMix	MH	1.0380e-003	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3830e-003	0.00
tblFleetMix	OBUS	1.3830e-003	0.00

tblFleetMix	SBUS	9.4500e-004	0.00
tblFleetMix	SBUS	9.4500e-004	0.00
tblFleetMix	UBUS	1.1830e-003	0.00
tblFleetMix	UBUS	1.1830e-003	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	5.00
tblSequestration	NumberOfNewTrees	0.00	276.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	78.60
tblVehicleTrips	CNW_TTP	13.00	95.00
tblVehicleTrips	CW_TTP	59.00	21.40
tblVehicleTrips	CW_TTP	59.00	5.00
tblVehicleTrips	ST_TR	1.32	4.96
tblVehicleTrips	ST_TR	2.49	1.46
tblVehicleTrips	SU_TR	0.68	4.96
tblVehicleTrips	SU_TR	0.73	1.46
tblVehicleTrips	WD_TR	6.97	4.96
tblVehicleTrips	WD_TR	6.83	1.46

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.3709	3.7045	2.6892	6.7200e-003	0.5395	0.1437	0.6832	0.1927	0.1331	0.3258	0.0000	612.6520	612.6520	0.1087	0.0000	615.3684
2020	0.7893	6.9267	6.1081	0.0196	0.9564	0.2116	1.1680	0.2582	0.1983	0.4564	0.0000	1,798.3352	1,798.3352	0.1867	0.0000	1,803.0015
2021	1.3869	5.0813	4.8581	0.0154	0.7478	0.1496	0.8975	0.2017	0.1399	0.3416	0.0000	1,409.1046	1,409.1046	0.1533	0.0000	1,412.9369
Maximum	**1.3869**	**6.9267**	**6.1081**	**0.0196**	**0.9564**	**0.2116**	**1.1680**	**0.2582**	**0.1983**	**0.4564**	**0.0000**	**1,798.3352**	**1,798.3352**	**0.1867**	**0.0000**	**1,803.0015**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.3709	3.7045	2.6892	6.7200e-003	0.3411	0.1437	0.4848	0.1104	0.1331	0.2436	0.0000	612.6516	612.6516	0.1087	0.0000	615.3680
2020	0.7893	6.9267	6.1081	0.0196	0.9564	0.2116	1.1680	0.2582	0.1983	0.4564	0.0000	1,798.3348	1,798.3348	0.1867	0.0000	1,803.0010
2021	1.3869	5.0813	4.8581	0.0154	0.7478	0.1496	0.8975	0.2017	0.1399	0.3416	0.0000	1,409.1041	1,409.1041	0.1533	0.0000	1,412.9365
Maximum	**1.3869**	**6.9267**	**6.1081**	**0.0196**	**0.9564**	**0.2116**	**1.1680**	**0.2582**	**0.1983**	**0.4564**	**0.0000**	**1,798.3348**	**1,798.3348**	**0.1867**	**0.0000**	**1,803.0010**

6627 DHS 109 - Phase 1 - Riverside-Salton Sea County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**8.84**	**0.00**	**7.22**	**12.61**	**0.00**	**7.32**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**7-1-2019**	**9-30-2019**	1.9518	1.9518
2	**10-1-2019**	**12-31-2019**	2.1004	2.1004
3	**1-1-2020**	**3-31-2020**	1.9054	1.9054
4	**4-1-2020**	**6-30-2020**	1.9150	1.9150
5	**7-1-2020**	**9-30-2020**	1.9360	1.9360
6	**10-1-2020**	**12-31-2020**	1.9264	1.9264
7	**1-1-2021**	**3-31-2021**	1.7089	1.7089
8	**4-1-2021**	**6-30-2021**	1.7388	1.7388
9	**7-1-2021**	**9-30-2021**	1.9422	1.9422
		Highest	2.1004	2.1004

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.2957	4.0000e-005	4.2200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.1800e-003	8.1800e-003	2.0000e-005	0.0000	8.7200e-003
Energy	0.0187	0.1696	0.1425	1.0200e-003		0.0129	0.0129		0.0129	0.0129	0.0000	4,380.7054	4,380.7054	0.1768	0.0392	4,396.8142
Mobile	0.2245	1.3660	2.2207	8.3700e-003	0.6537	6.8100e-003	0.6605	0.1751	6.3900e-003	0.1815	0.0000	770.5783	770.5783	0.0366	0.0000	771.4920
Waste						0.0000	0.0000		0.0000	0.0000	107.7456	0.0000	107.7456	6.3676	0.0000	266.9351
Water						0.0000	0.0000		0.0000	0.0000	31.4046	410.6820	442.0866	3.2425	0.0797	546.8911
Total	**2.5389**	**1.5357**	**2.3674**	**9.3900e-003**	**0.6537**	**0.0197**	**0.6734**	**0.1751**	**0.0193**	**0.1944**	**139.1502**	**5,561.9738**	**5,701.1240**	**9.8234**	**0.1189**	**5,982.1411**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.2957	4.0000e-005	4.2200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.1800e-003	8.1800e-003	2.0000e-005	0.0000	8.7200e-003
Energy	0.0187	0.1696	0.1425	1.0200e-003		0.0129	0.0129		0.0129	0.0129	0.0000	-4,791.9791	-4,791.9791	-0.2019	-0.0391	-4,808.6859
Mobile	0.2245	1.3660	2.2207	8.3700e-003	0.6537	6.8100e-003	0.6605	0.1751	6.3900e-003	0.1815	0.0000	770.5783	770.5783	0.0366	0.0000	771.4920
Waste						0.0000	0.0000		0.0000	0.0000	107.7456	0.0000	107.7456	6.3676	0.0000	266.9351
Water						0.0000	0.0000		0.0000	0.0000	31.4046	410.6820	442.0866	3.2425	0.0797	546.8911
Total	**2.5389**	**1.5357**	**2.3674**	**9.3900e-003**	**0.6537**	**0.0197**	**0.6734**	**0.1751**	**0.0193**	**0.1944**	**139.1502**	**-3,610.7107**	**-3,471.5605**	**9.4447**	**0.0406**	**-3,223.3590**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**164.92**	**160.89**	**3.85**	**65.90**	**153.88**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	195.4080
Total	**195.4080**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	7/1/2019	10/11/2019	5	75	
2	Building Construction	Building Construction	10/12/2019	9/30/2021	5	514	
3	Paving	Paving	8/30/2021	11/12/2021	5	55	
4	Architectural Coating	Architectural Coating	9/30/2021	12/15/2021	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 187.5

Acres of Paving: 29.45

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 642,090; Non-Residential Outdoor: 214,030; Striped Parking Area: 76,971 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	4	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	5	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	719.00	280.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	144.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3253	0.0000	0.3253	0.1349	0.0000	0.1349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1777	2.0445	1.2516	2.3300e-003		0.0894	0.0894		0.0822	0.0822	0.0000	208.8800	208.8800	0.0661	0.0000	210.5321
Total	**0.1777**	**2.0445**	**1.2516**	**2.3300e-003**	**0.3253**	**0.0894**	**0.4146**	**0.1349**	**0.0822**	**0.2171**	**0.0000**	**208.8800**	**208.8800**	**0.0661**	**0.0000**	**210.5321**

3.2 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0200e-003	2.1000e-003	0.0223	6.0000e-005	6.1700e-003	4.0000e-005	6.2100e-003	1.6400e-003	4.0000e-005	1.6800e-003	0.0000	5.3685	5.3685	1.5000e-004	0.0000	5.3723
Total	**3.0200e-003**	**2.1000e-003**	**0.0223**	**6.0000e-005**	**6.1700e-003**	**4.0000e-005**	**6.2100e-003**	**1.6400e-003**	**4.0000e-005**	**1.6800e-003**	**0.0000**	**5.3685**	**5.3685**	**1.5000e-004**	**0.0000**	**5.3723**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1269	0.0000	0.1269	0.0526	0.0000	0.0526	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1777	2.0445	1.2516	2.3300e-003		0.0894	0.0894		0.0822	0.0822	0.0000	208.8797	208.8797	0.0661	0.0000	210.5319
Total	**0.1777**	**2.0445**	**1.2516**	**2.3300e-003**	**0.1269**	**0.0894**	**0.2162**	**0.0526**	**0.0822**	**0.1348**	**0.0000**	**208.8797**	**208.8797**	**0.0661**	**0.0000**	**210.5319**

3.2 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0200e-003	2.1000e-003	0.0223	6.0000e-005	6.1700e-003	4.0000e-005	6.2100e-003	1.6400e-003	4.0000e-005	1.6800e-003	0.0000	5.3685	5.3685	1.5000e-004	0.0000	5.3723
Total	**3.0200e-003**	**2.1000e-003**	**0.0223**	**6.0000e-005**	**6.1700e-003**	**4.0000e-005**	**6.2100e-003**	**1.6400e-003**	**4.0000e-005**	**1.6800e-003**	**0.0000**	**5.3685**	**5.3685**	**1.5000e-004**	**0.0000**	**5.3723**

3.3 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0835	0.7580	0.6381	9.7000e-004		0.0477	0.0477		0.0446	0.0446	0.0000	84.8320	84.8320	0.0220	0.0000	85.3811
Total	**0.0835**	**0.7580**	**0.6381**	**9.7000e-004**		**0.0477**	**0.0477**		**0.0446**	**0.0446**	**0.0000**	**84.8320**	**84.8320**	**0.0220**	**0.0000**	**85.3811**

3.3 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0242	0.8425	0.1685	1.7500e-003	0.0395	5.5100e-003	0.0450	0.0114	5.2700e-003	0.0167	0.0000	166.8936	166.8936	0.0163	0.0000	167.3021
Worker	0.0825	0.0574	0.6087	1.6200e-003	0.1686	1.0900e-003	0.1697	0.0448	1.0100e-003	0.0458	0.0000	146.6779	146.6779	4.1100e-003	0.0000	146.7808
Total	**0.1067**	**0.8999**	**0.7772**	**3.3700e-003**	**0.2081**	**6.6000e-003**	**0.2147**	**0.0562**	**6.2800e-003**	**0.0625**	**0.0000**	**313.5715**	**313.5715**	**0.0205**	**0.0000**	**314.0829**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0835	0.7580	0.6381	9.7000e-004		0.0477	0.0477		0.0446	0.0446	0.0000	84.8319	84.8319	0.0220	0.0000	85.3810
Total	**0.0835**	**0.7580**	**0.6381**	**9.7000e-004**		**0.0477**	**0.0477**		**0.0446**	**0.0446**	**0.0000**	**84.8319**	**84.8319**	**0.0220**	**0.0000**	**85.3810**

3.3 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0242	0.8425	0.1685	1.7500e-003	0.0395	5.5100e-003	0.0450	0.0114	5.2700e-003	0.0167	0.0000	166.8936	166.8936	0.0163	0.0000	167.3021
Worker	0.0825	0.0574	0.6087	1.6200e-003	0.1686	1.0900e-003	0.1697	0.0448	1.0100e-003	0.0458	0.0000	146.6779	146.6779	4.1100e-003	0.0000	146.7808
Total	**0.1067**	**0.8999**	**0.7772**	**3.3700e-003**	**0.2081**	**6.6000e-003**	**0.2147**	**0.0562**	**6.2800e-003**	**0.0625**	**0.0000**	**313.5715**	**313.5715**	**0.0205**	**0.0000**	**314.0829**

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3446	3.1660	2.8844	4.4400e-003		0.1895	0.1895		0.1773	0.1773	0.0000	383.5527	383.5527	0.0999	0.0000	386.0512
Total	**0.3446**	**3.1660**	**2.8844**	**4.4400e-003**		**0.1895**	**0.1895**		**0.1773**	**0.1773**	**0.0000**	**383.5527**	**383.5527**	**0.0999**	**0.0000**	**386.0512**

3.3 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0943	3.5261	0.6899	7.9700e-003	0.1815	0.0171	0.1987	0.0524	0.0164	0.0688	0.0000	761.8747	761.8747	0.0700	0.0000	763.6237
Worker	0.3504	0.2347	2.5338	7.2200e-003	0.7749	4.9200e-003	0.7798	0.2058	4.5300e-003	0.2103	0.0000	652.9079	652.9079	0.0168	0.0000	653.3266
Total	**0.4447**	**3.7608**	**3.2237**	**0.0152**	**0.9564**	**0.0221**	**0.9785**	**0.2582**	**0.0209**	**0.2791**	**0.0000**	**1,414.7825**	**1,414.7825**	**0.0867**	**0.0000**	**1,416.9503**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3446	3.1659	2.8844	4.4400e-003		0.1895	0.1895		0.1773	0.1773	0.0000	383.5522	383.5522	0.0999	0.0000	386.0508
Total	**0.3446**	**3.1659**	**2.8844**	**4.4400e-003**		**0.1895**	**0.1895**		**0.1773**	**0.1773**	**0.0000**	**383.5522**	**383.5522**	**0.0999**	**0.0000**	**386.0508**

3.3 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0943	3.5261	0.6899	7.9700e-003	0.1815	0.0171	0.1987	0.0524	0.0164	0.0688	0.0000	761.8747	761.8747	0.0700	0.0000	763.6237
Worker	0.3504	0.2347	2.5338	7.2200e-003	0.7749	4.9200e-003	0.7798	0.2058	4.5300e-003	0.2103	0.0000	652.9079	652.9079	0.0168	0.0000	653.3266
Total	**0.4447**	**3.7608**	**3.2237**	**0.0152**	**0.9564**	**0.0221**	**0.9785**	**0.2582**	**0.0209**	**0.2791**	**0.0000**	**1,414.7825**	**1,414.7825**	**0.0867**	**0.0000**	**1,416.9503**

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2299	2.1381	2.1156	3.3000e-003		0.1207	0.1207		0.1129	0.1129	0.0000	285.5156	285.5156	0.0738	0.0000	287.3602
Total	**0.2299**	**2.1381**	**2.1156**	**3.3000e-003**		**0.1207**	**0.1207**		**0.1129**	**0.1129**	**0.0000**	**285.5156**	**285.5156**	**0.0738**	**0.0000**	**287.3602**

3.3 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0598	2.3796	0.4567	5.8800e-003	0.1351	3.9300e-003	0.1390	0.0390	3.7600e-003	0.0428	0.0000	562.5026	562.5026	0.0493	0.0000	563.7355
Worker	0.2430	0.1566	1.7253	5.2000e-003	0.5768	3.5700e-003	0.5803	0.1532	3.2800e-003	0.1565	0.0000	469.7036	469.7036	0.0112	0.0000	469.9836
Total	**0.3028**	**2.5362**	**2.1820**	**0.0111**	**0.7119**	**7.5000e-003**	**0.7194**	**0.1922**	**7.0400e-003**	**0.1992**	**0.0000**	**1,032.2062**	**1,032.2062**	**0.0605**	**0.0000**	**1,033.7191**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2299	2.1381	2.1156	3.3000e-003		0.1207	0.1207		0.1129	0.1129	0.0000	285.5153	285.5153	0.0738	0.0000	287.3599
Total	**0.2299**	**2.1381**	**2.1156**	**3.3000e-003**		**0.1207**	**0.1207**		**0.1129**	**0.1129**	**0.0000**	**285.5153**	**285.5153**	**0.0738**	**0.0000**	**287.3599**

3.3 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0598	2.3796	0.4567	5.8800e-003	0.1351	3.9300e-003	0.1390	0.0390	3.7600e-003	0.0428	0.0000	562.5026	562.5026	0.0493	0.0000	563.7355
Worker	0.2430	0.1566	1.7253	5.2000e-003	0.5768	3.5700e-003	0.5803	0.1532	3.2800e-003	0.1565	0.0000	469.7036	469.7036	0.0112	0.0000	469.9836
Total	**0.3028**	**2.5362**	**2.1820**	**0.0111**	**0.7119**	**7.5000e-003**	**0.7194**	**0.1922**	**7.0400e-003**	**0.1992**	**0.0000**	**1,032.2062**	**1,032.2062**	**0.0605**	**0.0000**	**1,033.7191**

3.4 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0345	0.3553	0.4030	6.3000e-004		0.0186	0.0186		0.0172	0.0172	0.0000	55.0646	55.0646	0.0178	0.0000	55.5098
Paving	0.0249					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0594**	**0.3553**	**0.4030**	**6.3000e-004**		**0.0186**	**0.0186**		**0.0172**	**0.0172**	**0.0000**	**55.0646**	**55.0646**	**0.0178**	**0.0000**	**55.5098**

3.4 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4300e-003	9.2000e-004	0.0102	3.0000e-005	3.3900e-003	2.0000e-005	3.4100e-003	9.0000e-004	2.0000e-005	9.2000e-004	0.0000	2.7639	2.7639	7.0000e-005	0.0000	2.7655
Total	**1.4300e-003**	**9.2000e-004**	**0.0102**	**3.0000e-005**	**3.3900e-003**	**2.0000e-005**	**3.4100e-003**	**9.0000e-004**	**2.0000e-005**	**9.2000e-004**	**0.0000**	**2.7639**	**2.7639**	**7.0000e-005**	**0.0000**	**2.7655**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0345	0.3553	0.4030	6.3000e-004		0.0186	0.0186		0.0172	0.0172	0.0000	55.0645	55.0645	0.0178	0.0000	55.5097
Paving	0.0249					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0594**	**0.3553**	**0.4030**	**6.3000e-004**		**0.0186**	**0.0186**		**0.0172**	**0.0172**	**0.0000**	**55.0645**	**55.0645**	**0.0178**	**0.0000**	**55.5097**

3.4 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4300e-003	9.2000e-004	0.0102	3.0000e-005	3.3900e-003	2.0000e-005	3.4100e-003	9.0000e-004	2.0000e-005	9.2000e-004	0.0000	2.7639	2.7639	7.0000e-005	0.0000	2.7655
Total	**1.4300e-003**	**9.2000e-004**	**0.0102**	**3.0000e-005**	**3.3900e-003**	**2.0000e-005**	**3.4100e-003**	**9.0000e-004**	**2.0000e-005**	**9.2000e-004**	**0.0000**	**2.7639**	**2.7639**	**7.0000e-005**	**0.0000**	**2.7655**

3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7736					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0200e-003	0.0420	0.0500	8.0000e-005		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003	0.0000	7.0215	7.0215	4.8000e-004	0.0000	7.0335
Total	**0.7796**	**0.0420**	**0.0500**	**8.0000e-005**		**2.5900e-003**	**2.5900e-003**		**2.5900e-003**	**2.5900e-003**	**0.0000**	**7.0215**	**7.0215**	**4.8000e-004**	**0.0000**	**7.0335**

3.5 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0137	8.8500e-003	0.0975	2.9000e-004	0.0326	2.0000e-004	0.0328	8.6500e-003	1.9000e-004	8.8400e-003	0.0000	26.5330	26.5330	6.3000e-004	0.0000	26.5488
Total	**0.0137**	**8.8500e-003**	**0.0975**	**2.9000e-004**	**0.0326**	**2.0000e-004**	**0.0328**	**8.6500e-003**	**1.9000e-004**	**8.8400e-003**	**0.0000**	**26.5330**	**26.5330**	**6.3000e-004**	**0.0000**	**26.5488**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7736					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0200e-003	0.0420	0.0500	8.0000e-005		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003	0.0000	7.0214	7.0214	4.8000e-004	0.0000	7.0335
Total	**0.7796**	**0.0420**	**0.0500**	**8.0000e-005**		**2.5900e-003**	**2.5900e-003**		**2.5900e-003**	**2.5900e-003**	**0.0000**	**7.0214**	**7.0214**	**4.8000e-004**	**0.0000**	**7.0335**

3.5 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0137	8.8500e-003	0.0975	2.9000e-004	0.0326	2.0000e-004	0.0328	8.6500e-003	1.9000e-004	8.8400e-003	0.0000	26.5330	26.5330	6.3000e-004	0.0000	26.5488
Total	**0.0137**	**8.8500e-003**	**0.0975**	**2.9000e-004**	**0.0326**	**2.0000e-004**	**0.0328**	**8.6500e-003**	**1.9000e-004**	**8.8400e-003**	**0.0000**	**26.5330**	**26.5330**	**6.3000e-004**	**0.0000**	**26.5488**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2245	1.3660	2.2207	8.3700e-003	0.6537	6.8100e-003	0.6605	0.1751	6.3900e-003	0.1815	0.0000	770.5783	770.5783	0.0366	0.0000	771.4920
Unmitigated	0.2245	1.3660	2.2207	8.3700e-003	0.6537	6.8100e-003	0.6605	0.1751	6.3900e-003	0.1815	0.0000	770.5783	770.5783	0.0366	0.0000	771.4920

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	337.58	337.58	337.58	793,221	793,221
Industrial Park	525.60	525.60	525.60	922,501	922,501
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	863.18	863.18	863.18	1,715,722	1,715,722

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	12.50	4.20	5.40	21.40	0.00	78.60	92	5	3
Industrial Park	12.50	4.20	5.40	5.00	0.00	95.00	79	19	2
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.479856	0.033262	0.163933	0.104893	0.060765	0.019235	0.039000	0.095000	0.000000	0.000000	0.004056	0.000000	0.000000
Industrial Park	0.579978	0.040203	0.198138	0.126779	0.037978	0.012022	0.000000	0.000000	0.000000	0.000000	0.004902	0.000000	0.000000
Other Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Non-Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	-4,976.6430	-4,976.6430	-0.2055	-0.0425	-4,994.4470
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,196.0415	4,196.0415	0.1732	0.0358	4,211.0530
NaturalGas Mitigated	0.0187	0.1696	0.1425	1.0200e-003		0.0129	0.0129		0.0129	0.0129	0.0000	184.6638	184.6638	3.5400e-003	3.3900e-003	185.7612
NaturalGas Unmitigated	0.0187	0.1696	0.1425	1.0200e-003		0.0129	0.0129		0.0129	0.0129	0.0000	184.6638	184.6638	3.5400e-003	3.3900e-003	185.7612

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	2.21127e+006	0.0119	0.1084	0.0911	6.5000e-004		8.2400e-003	8.2400e-003		8.2400e-003	8.2400e-003	0.0000	118.0018	118.0018	2.2600e-003	2.1600e-003	118.7030
Industrial Park	1.2492e+006	6.7400e-003	0.0612	0.0514	3.7000e-004		4.6500e-003	4.6500e-003		4.6500e-003	4.6500e-003	0.0000	66.6621	66.6621	1.2800e-003	1.2200e-003	67.0582
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0187**	**0.1696**	**0.1425**	**1.0200e-003**		**0.0129**	**0.0129**		**0.0129**	**0.0129**	**0.0000**	**184.6638**	**184.6638**	**3.5400e-003**	**3.3800e-003**	**185.7612**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	2.21127e+006	0.0119	0.1084	0.0911	6.5000e-004		8.2400e-003	8.2400e-003		8.2400e-003	8.2400e-003	0.0000	118.0018	118.0018	2.2600e-003	2.1600e-003	118.7030
Industrial Park	1.2492e+006	6.7400e-003	0.0612	0.0514	3.7000e-004		4.6500e-003	4.6500e-003		4.6500e-003	4.6500e-003	0.0000	66.6621	66.6621	1.2800e-003	1.2200e-003	67.0582
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0187**	**0.1696**	**0.1425**	**1.0200e-003**		**0.0129**	**0.0129**		**0.0129**	**0.0129**	**0.0000**	**184.6638**	**184.6638**	**3.5400e-003**	**3.3800e-003**	**185.7612**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	4.8971e+006	1,560.3195	0.0644	0.0133	1,565.9016
Industrial Park	8.27227e+006	2,635.7221	0.1088	0.0225	2,645.1514
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**4,196.0415**	**0.1732**	**0.0358**	**4,211.0530**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	-2.30007e+006	-732.8517	-0.0303	-0.0063	-735.4735
Industrial Park	1.0751e+006	342.5509	0.0141	2.9300e-003	343.7764
Other Asphalt Surfaces	-7.19717e+006	-2,293.1711	-0.0947	-0.0196	-2,301.3750
Other Non-Asphalt Surfaces	-7.19717e+006	-2,293.1711	-0.0947	-0.0196	-2,301.3750
Total		**-4,976.6430**	**-0.2055**	**-0.0425**	**-4,994.4470**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.2957	4.0000e-005	4.2200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.1800e-003	8.1800e-003	2.0000e-005	0.0000	8.7200e-003
Unmitigated	2.2957	4.0000e-005	4.2200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.1800e-003	8.1800e-003	2.0000e-005	0.0000	8.7200e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.5406					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.7547					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9000e-004	4.0000e-005	4.2200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.1800e-003	8.1800e-003	2.0000e-005	0.0000	8.7200e-003
Total	**2.2957**	**4.0000e-005**	**4.2200e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**8.1800e-003**	**8.1800e-003**	**2.0000e-005**	**0.0000**	**8.7200e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.5406					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.7547					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9000e-004	4.0000e-005	4.2200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.1800e-003	8.1800e-003	2.0000e-005	0.0000	8.7200e-003
Total	**2.2957**	**4.0000e-005**	**4.2200e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**8.1800e-003**	**8.1800e-003**	**2.0000e-005**	**0.0000**	**8.7200e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	442.0866	3.2425	0.0797	546.8911
Unmitigated	442.0866	3.2425	0.0797	546.8911

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	15.7389 / 0	70.2902	0.5156	0.0127	86.9537
Industrial Park	83.25 / 0	371.7965	2.7270	0.0670	459.9374
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**442.0866**	**3.2425**	**0.0797**	**546.8911**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	15.7389 / 0	70.2902	0.5156	0.0127	86.9537
Industrial Park	83.25 / 0	371.7965	2.7270	0.0670	459.9374
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**442.0866**	**3.2425**	**0.0797**	**546.8911**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	107.7456	6.3676	0.0000	266.9351
Unmitigated	107.7456	6.3676	0.0000	266.9351

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	84.39	17.1304	1.0124	0.0000	42.4399
Industrial Park	446.4	90.6152	5.3552	0.0000	224.4952
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**107.7456**	**6.3676**	**0.0000**	**266.9351**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	84.39	17.1304	1.0124	0.0000	42.4399
Industrial Park	446.4	90.6152	5.3552	0.0000	224.4952
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**107.7456**	**6.3676**	**0.0000**	**266.9351**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	195.4080	0.0000	0.0000	195.4080

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	276	195.4080	0.0000	0.0000	195.4080
Total		**195.4080**	**0.0000**	**0.0000**	**195.4080**

6627 DHS 109 - Phase 2

Riverside-Salton Sea County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	148.06	1000sqft	3.40	148,060.00	0
Industrial Park	280.00	1000sqft	6.43	280,000.00	0
Other Asphalt Surfaces	14.78	Acre	14.78	643,816.80	0
Other Non-Asphalt Surfaces	1.06	Acre	1.06	46,173.60	0
Other Non-Asphalt Surfaces	3.89	Acre	3.89	169,448.40	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

6627 DHS 109 - Phase 2 - Riverside-Salton Sea County, Annual

Project Characteristics -

Land Use - Phase 2- 29.56 ac w/ 428,060 sf bldgs (65.41% cultivation = 280,000sf), 46,217 sf (~1.06 ac) basins, ~50% P2 paving prkg/on-site rdwys (=~14.78ac), & remainder 3.89 acres landscaping.

Construction Phase - Construction anticipated to start no earlier than October 2021 to Q3 2023. P2 to be operational in 2023. Default timing used.

Grading - Site anticipated to balance.

Architectural Coating - SCAQMD Rule 1113 limits architectural coatings to 50g/L VOC. Architectural coatings have been mitigated to 30 g/L VOC for buildings & 100 g/L VOC for parking areas.

Vehicle Trips - Per TIA, 4.96 trips/TSF light industrial & 1,339 trips/920 TSF = 1.46 trips/TSF cultivation. Light industrial 21.4% trks (C-W) & 78.6% autos (C-NW). Industrial Park 95% autos (C-NW) & 5% trks (C-W).

Energy Use - Per applicant, Phase 2- IP ~8,272,268.8 kWh/yr & GI ~4,897,095.2 kWh/yr. Converted to kWh/sf/yr & title-24, non-title 24 & lighting based on default %.

Sequestration - Per the landscape architect, ~836 new trees to be planted on-site. Split per bldg square foot. P2 is 33% bldf sf = 276 trees.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Energy Mitigation - Natural fueled turbine power generators, chillers, solar panels on bldng rooftops & prkng shade structures. Solar to provide ~28,788,662 kWh per year for Phase 2.

Waste Mitigation -

Fleet Mix - Revised vehicle mix per TIA for Light Industrial use of 78.6% Autos, 8% 2-Axle Trucks, 3.9% 3-Axle Trucks & 9.5% 4+ Axle Trucks & industrial park (cultivation use) of 95% autos & 5% 2-axle trucks.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	30.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	30.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblEnergyUse	LightingElect	2.93	9.53
tblEnergyUse	LightingElect	3.66	11.37
tblEnergyUse	NT24E	5.02	16.37
tblEnergyUse	NT24E	2.79	8.66
tblEnergyUse	T24E	2.20	7.12
tblEnergyUse	T24E	3.07	9.51

tblFleetMix	HHD	0.07	0.10
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.55	0.49
tblFleetMix	LDA	0.55	0.59
tblFleetMix	LDT1	0.04	0.03
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.17
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LHD1	0.01	0.06
tblFleetMix	LHD1	0.01	0.04
tblFleetMix	LHD2	4.8060e-003	0.02
tblFleetMix	LHD2	4.8060e-003	0.01
tblFleetMix	MCY	4.5080e-003	3.9870e-003
tblFleetMix	MCY	4.5080e-003	4.8180e-003
tblFleetMix	MDV	0.11	0.10
tblFleetMix	MDV	0.11	0.12
tblFleetMix	MH	8.9800e-004	0.00
tblFleetMix	MH	8.9800e-004	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.4090e-003	0.00
tblFleetMix	OBUS	1.4090e-003	0.00
tblFleetMix	SBUS	9.1800e-004	0.00
tblFleetMix	SBUS	9.1800e-004	0.00
tblFleetMix	UBUS	1.1470e-003	0.00
tblFleetMix	UBUS	1.1470e-003	0.00
tblSequestration	NumberOfNewTrees	0.00	276.00

tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	78.60
tblVehicleTrips	CNW_TTP	13.00	95.00
tblVehicleTrips	CW_TTP	59.00	21.40
tblVehicleTrips	CW_TTP	59.00	5.00
tblVehicleTrips	ST_TR	1.32	4.96
tblVehicleTrips	ST_TR	2.49	1.46
tblVehicleTrips	SU_TR	0.68	4.96
tblVehicleTrips	SU_TR	0.73	1.46
tblVehicleTrips	WD_TR	6.97	4.96
tblVehicleTrips	WD_TR	6.83	1.46

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1404	1.4338	1.0567	2.6100e-003	0.2566	0.0554	0.3119	0.0975	0.0512	0.1486	0.0000	233.6607	233.6607	0.0505	0.0000	234.9233
2022	0.5060	4.4359	4.1475	0.0144	0.7144	0.1120	0.8263	0.1929	0.1053	0.2982	0.0000	1,315.5776	1,315.5776	0.1292	0.0000	1,318.8065
2023	1.0442	2.4887	2.7477	9.1700e-003	0.4546	0.0689	0.5235	0.1226	0.0647	0.1873	0.0000	837.5363	837.5363	0.0830	0.0000	839.6120
Maximum	**1.0442**	**4.4359**	**4.1475**	**0.0144**	**0.7144**	**0.1120**	**0.8263**	**0.1929**	**0.1053**	**0.2982**	**0.0000**	**1,315.5776**	**1,315.5776**	**0.1292**	**0.0000**	**1,318.8065**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1404	1.4338	1.0567	2.6100e-003	0.1375	0.0554	0.1929	0.0481	0.0512	0.0993	0.0000	233.6605	233.6605	0.0505	0.0000	234.9232
2022	0.5060	4.4359	4.1475	0.0144	0.7144	0.1120	0.8263	0.1929	0.1053	0.2982	0.0000	1,315.5773	1,315.5773	0.1292	0.0000	1,318.8061
2023	1.0442	2.4887	2.7477	9.1700e-003	0.4546	0.0689	0.5235	0.1226	0.0647	0.1873	0.0000	837.5360	837.5360	0.0830	0.0000	839.6118
Maximum	**1.0442**	**4.4359**	**4.1475**	**0.0144**	**0.7144**	**0.1120**	**0.8263**	**0.1929**	**0.1053**	**0.2982**	**0.0000**	**1,315.5773**	**1,315.5773**	**0.1292**	**0.0000**	**1,318.8061**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**8.35**	**0.00**	**7.16**	**11.95**	**0.00**	**7.78**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**10-1-2021**	**12-31-2021**	1.5665	1.5665
2	**1-1-2022**	**3-31-2022**	1.2165	1.2165
3	**4-1-2022**	**6-30-2022**	1.2383	1.2383
4	**7-1-2022**	**9-30-2022**	1.2519	1.2519
5	**10-1-2022**	**12-31-2022**	1.2435	1.2435
6	**1-1-2023**	**3-31-2023**	1.0348	1.0348
7	**4-1-2023**	**6-30-2023**	1.0538	1.0538
8	**7-1-2023**	**9-30-2023**	0.7226	0.7226
		Highest	1.5665	1.5665

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.2536	4.0000e-005	4.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.0000e-003	8.0000e-003	2.0000e-005	0.0000	8.5300e-003
Energy	0.0312	0.2834	0.2381	1.7000e-003		0.0215	0.0215		0.0215	0.0215	0.0000	4,501.7643	4,501.7643	0.1790	0.0415	4,518.5992
Mobile	0.2630	1.9506	2.6437	0.0126	0.9375	8.2900e-003	0.9457	0.2519	7.7600e-003	0.2596	0.0000	1,167.5677	1,167.5677	0.0508	0.0000	1,168.8366
Waste						0.0000	0.0000		0.0000	0.0000	107.7456	0.0000	107.7456	6.3676	0.0000	266.9351
Water						0.0000	0.0000		0.0000	0.0000	31.4046	410.6820	442.0866	3.2425	0.0797	546.8911
Total	**2.5478**	**2.2341**	**2.8859**	**0.0143**	**0.9375**	**0.0298**	**0.9673**	**0.2519**	**0.0293**	**0.2812**	**139.1502**	**6,080.0220**	**6,219.1721**	**9.8399**	**0.1211**	**6,501.2705**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.2536	4.0000e-005	4.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.0000e-003	8.0000e-003	2.0000e-005	0.0000	8.5300e-003
Energy	0.0312	0.2834	0.2381	1.7000e-003		0.0215	0.0215		0.0215	0.0215	0.0000	-4,670.9202	-4,670.9202	-0.1997	-0.0369	-4,686.9009
Mobile	0.2680	1.9992	2.7765	0.0133	1.0031	8.7900e-003	1.0119	0.2695	8.2300e-003	0.2777	0.0000	1,236.5305	1,236.5305	0.0522	0.0000	1,237.8355
Waste						0.0000	0.0000		0.0000	0.0000	107.7456	0.0000	107.7456	6.3676	0.0000	266.9351
Water						0.0000	0.0000		0.0000	0.0000	31.4046	410.6820	442.0866	3.2425	0.0797	546.8911
Total	**2.5528**	**2.2827**	**3.0187**	**0.0150**	**1.0031**	**0.0303**	**1.0334**	**0.2695**	**0.0298**	**0.2993**	**139.1502**	**-3,023.6997**	**-2,884.5495**	**9.4627**	**0.0428**	**-2,635.2306**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**-0.20**	**-2.17**	**-4.60**	**-5.25**	**-7.00**	**-1.68**	**-6.84**	**-7.00**	**-1.60**	**-6.44**	**0.00**	**149.73**	**146.38**	**3.83**	**64.68**	**140.53**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	195.4080
Total	**195.4080**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	10/1/2021	12/2/2021	5	45	
2	Building Construction	Building Construction	12/3/2021	8/10/2023	5	440	
3	Paving	Paving	8/11/2023	9/28/2023	5	35	
4	Architectural Coating	Architectural Coating	9/29/2023	11/16/2023	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 19.73

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 642,090; Non-Residential Outdoor: 214,030; Striped Parking Area: 51,566 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	541.00	211.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	108.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1952	0.0000	0.1952	0.0809	0.0000	0.0809	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0943	1.0440	0.6948	1.4000e-003		0.0447	0.0447		0.0411	0.0411	0.0000	122.6137	122.6137	0.0397	0.0000	123.6051
Total	**0.0943**	**1.0440**	**0.6948**	**1.4000e-003**	**0.1952**	**0.0447**	**0.2398**	**0.0809**	**0.0411**	**0.1220**	**0.0000**	**122.6137**	**122.6137**	**0.0397**	**0.0000**	**123.6051**

3.2 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5600e-003	1.0100e-003	0.0111	3.0000e-005	3.7000e-003	2.0000e-005	3.7300e-003	9.8000e-004	2.0000e-005	1.0000e-003	0.0000	3.0151	3.0151	7.0000e-005	0.0000	3.0169
Total	**1.5600e-003**	**1.0100e-003**	**0.0111**	**3.0000e-005**	**3.7000e-003**	**2.0000e-005**	**3.7300e-003**	**9.8000e-004**	**2.0000e-005**	**1.0000e-003**	**0.0000**	**3.0151**	**3.0151**	**7.0000e-005**	**0.0000**	**3.0169**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0761	0.0000	0.0761	0.0316	0.0000	0.0316	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0943	1.0440	0.6948	1.4000e-003		0.0447	0.0447		0.0411	0.0411	0.0000	122.6136	122.6136	0.0397	0.0000	123.6050
Total	**0.0943**	**1.0440**	**0.6948**	**1.4000e-003**	**0.0761**	**0.0447**	**0.1208**	**0.0316**	**0.0411**	**0.0727**	**0.0000**	**122.6136**	**122.6136**	**0.0397**	**0.0000**	**123.6050**

3.2 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5600e-003	1.0100e-003	0.0111	3.0000e-005	3.7000e-003	2.0000e-005	3.7300e-003	9.8000e-004	2.0000e-005	1.0000e-003	0.0000	3.0151	3.0151	7.0000e-005	0.0000	3.0169
Total	**1.5600e-003**	**1.0100e-003**	**0.0111**	**3.0000e-005**	**3.7000e-003**	**2.0000e-005**	**3.7300e-003**	**9.8000e-004**	**2.0000e-005**	**1.0000e-003**	**0.0000**	**3.0151**	**3.0151**	**7.0000e-005**	**0.0000**	**3.0169**

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0200	0.1830	0.1740	2.8000e-004		0.0101	0.0101		9.4600e-003	9.4600e-003	0.0000	24.3219	24.3219	5.8700e-003	0.0000	24.4686
Total	**0.0200**	**0.1830**	**0.1740**	**2.8000e-004**		**0.0101**	**0.0101**		**9.4600e-003**	**9.4600e-003**	**0.0000**	**24.3219**	**24.3219**	**5.8700e-003**	**0.0000**	**24.4686**

3.3 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8600e-003	0.1931	0.0371	4.8000e-004	0.0110	3.2000e-004	0.0113	3.1600e-003	3.1000e-004	3.4700e-003	0.0000	45.6493	45.6493	4.0000e-003	0.0000	45.7493
Worker	0.0197	0.0127	0.1398	4.2000e-004	0.0467	2.9000e-004	0.0470	0.0124	2.7000e-004	0.0127	0.0000	38.0607	38.0607	9.1000e-004	0.0000	38.0834
Total	**0.0246**	**0.2058**	**0.1769**	**9.0000e-004**	**0.0577**	**6.1000e-004**	**0.0583**	**0.0156**	**5.8000e-004**	**0.0162**	**0.0000**	**83.7100**	**83.7100**	**4.9100e-003**	**0.0000**	**83.8327**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0200	0.1830	0.1740	2.8000e-004		0.0101	0.0101		9.4600e-003	9.4600e-003	0.0000	24.3219	24.3219	5.8700e-003	0.0000	24.4686
Total	**0.0200**	**0.1830**	**0.1740**	**2.8000e-004**		**0.0101**	**0.0101**		**9.4600e-003**	**9.4600e-003**	**0.0000**	**24.3219**	**24.3219**	**5.8700e-003**	**0.0000**	**24.4686**

3.3 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8600e-003	0.1931	0.0371	4.8000e-004	0.0110	3.2000e-004	0.0113	3.1600e-003	3.1000e-004	3.4700e-003	0.0000	45.6493	45.6493	4.0000e-003	0.0000	45.7493
Worker	0.0197	0.0127	0.1398	4.2000e-004	0.0467	2.9000e-004	0.0470	0.0124	2.7000e-004	0.0127	0.0000	38.0607	38.0607	9.1000e-004	0.0000	38.0834
Total	**0.0246**	**0.2058**	**0.1769**	**9.0000e-004**	**0.0577**	**6.1000e-004**	**0.0583**	**0.0156**	**5.8000e-004**	**0.0162**	**0.0000**	**83.7100**	**83.7100**	**4.9100e-003**	**0.0000**	**83.8327**

3.3 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2428	301.2428	0.0722	0.0000	303.0471
Total	**0.2218**	**2.0300**	**2.1272**	**3.5000e-003**		**0.1052**	**0.1052**		**0.0990**	**0.0990**	**0.0000**	**301.2428**	**301.2428**	**0.0722**	**0.0000**	**303.0471**

3.3 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0561	2.2646	0.4271	5.8500e-003	0.1357	3.3200e-003	0.1391	0.0392	3.1700e-003	0.0424	0.0000	560.2930	560.2930	0.0469	0.0000	561.4652
Worker	0.2281	0.1413	1.5931	5.0200e-003	0.5786	3.4800e-003	0.5821	0.1537	3.2100e-003	0.1569	0.0000	454.0418	454.0418	0.0101	0.0000	454.2942
Total	**0.2842**	**2.4059**	**2.0202**	**0.0109**	**0.7144**	**6.8000e-003**	**0.7212**	**0.1929**	**6.3800e-003**	**0.1992**	**0.0000**	**1,014.3348**	**1,014.3348**	**0.0570**	**0.0000**	**1,015.7594**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467
Total	**0.2218**	**2.0300**	**2.1272**	**3.5000e-003**		**0.1052**	**0.1052**		**0.0990**	**0.0990**	**0.0000**	**301.2425**	**301.2425**	**0.0722**	**0.0000**	**303.0467**

3.3 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0561	2.2646	0.4271	5.8500e-003	0.1357	3.3200e-003	0.1391	0.0392	3.1700e-003	0.0424	0.0000	560.2930	560.2930	0.0469	0.0000	561.4652
Worker	0.2281	0.1413	1.5931	5.0200e-003	0.5786	3.4800e-003	0.5821	0.1537	3.2100e-003	0.1569	0.0000	454.0418	454.0418	0.0101	0.0000	454.2942
Total	**0.2842**	**2.4059**	**2.0202**	**0.0109**	**0.7144**	**6.8000e-003**	**0.7212**	**0.1929**	**6.3800e-003**	**0.1992**	**0.0000**	**1,014.3348**	**1,014.3348**	**0.0570**	**0.0000**	**1,015.7594**

3.3 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1250	1.1436	1.2914	2.1400e-003		0.0556	0.0556		0.0523	0.0523	0.0000	184.2848	184.2848	0.0438	0.0000	185.3807
Total	**0.1250**	**1.1436**	**1.2914**	**2.1400e-003**		**0.0556**	**0.0556**		**0.0523**	**0.0523**	**0.0000**	**184.2848**	**184.2848**	**0.0438**	**0.0000**	**185.3807**

3.3 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0263	1.0622	0.2271	3.4800e-003	0.0830	9.1000e-004	0.0839	0.0240	8.7000e-004	0.0248	0.0000	333.2360	333.2360	0.0218	0.0000	333.7803
Worker	0.1308	0.0778	0.8974	2.9500e-003	0.3539	2.0800e-003	0.3559	0.0940	1.9100e-003	0.0959	0.0000	267.1311	267.1311	5.5400e-003	0.0000	267.2697
Total	**0.1571**	**1.1401**	**1.1244**	**6.4300e-003**	**0.4369**	**2.9900e-003**	**0.4398**	**0.1179**	**2.7800e-003**	**0.1207**	**0.0000**	**600.3671**	**600.3671**	**0.0273**	**0.0000**	**601.0500**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1250	1.1436	1.2914	2.1400e-003		0.0556	0.0556		0.0523	0.0523	0.0000	184.2846	184.2846	0.0438	0.0000	185.3805
Total	**0.1250**	**1.1436**	**1.2914**	**2.1400e-003**		**0.0556**	**0.0556**		**0.0523**	**0.0523**	**0.0000**	**184.2846**	**184.2846**	**0.0438**	**0.0000**	**185.3805**

3.3 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0263	1.0622	0.2271	3.4800e-003	0.0830	9.1000e-004	0.0839	0.0240	8.7000e-004	0.0248	0.0000	333.2360	333.2360	0.0218	0.0000	333.7803
Worker	0.1308	0.0778	0.8974	2.9500e-003	0.3539	2.0800e-003	0.3559	0.0940	1.9100e-003	0.0959	0.0000	267.1311	267.1311	5.5400e-003	0.0000	267.2697
Total	**0.1571**	**1.1401**	**1.1244**	**6.4300e-003**	**0.4369**	**2.9900e-003**	**0.4398**	**0.1179**	**2.7800e-003**	**0.1207**	**0.0000**	**600.3671**	**600.3671**	**0.0273**	**0.0000**	**601.0500**

3.4 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0181	0.1784	0.2552	4.0000e-004		8.9300e-003	8.9300e-003		8.2100e-003	8.2100e-003	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304
Paving	0.0194					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0374**	**0.1784**	**0.2552**	**4.0000e-004**		**8.9300e-003**	**8.9300e-003**		**8.2100e-003**	**8.2100e-003**	**0.0000**	**35.0470**	**35.0470**	**0.0113**	**0.0000**	**35.3304**

3.4 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-004	4.8000e-004	5.4800e-003	2.0000e-005	2.1600e-003	1.0000e-005	2.1700e-003	5.7000e-004	1.0000e-005	5.9000e-004	0.0000	1.6304	1.6304	3.0000e-005	0.0000	1.6312
Total	**8.0000e-004**	**4.8000e-004**	**5.4800e-003**	**2.0000e-005**	**2.1600e-003**	**1.0000e-005**	**2.1700e-003**	**5.7000e-004**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**1.6304**	**1.6304**	**3.0000e-005**	**0.0000**	**1.6312**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0181	0.1784	0.2552	4.0000e-004		8.9300e-003	8.9300e-003		8.2100e-003	8.2100e-003	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304
Paving	0.0194					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0374**	**0.1784**	**0.2552**	**4.0000e-004**		**8.9300e-003**	**8.9300e-003**		**8.2100e-003**	**8.2100e-003**	**0.0000**	**35.0470**	**35.0470**	**0.0113**	**0.0000**	**35.3304**

3.4 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-004	4.8000e-004	5.4800e-003	2.0000e-005	2.1600e-003	1.0000e-005	2.1700e-003	5.7000e-004	1.0000e-005	5.9000e-004	0.0000	1.6304	1.6304	3.0000e-005	0.0000	1.6312
Total	**8.0000e-004**	**4.8000e-004**	**5.4800e-003**	**2.0000e-005**	**2.1600e-003**	**1.0000e-005**	**2.1700e-003**	**5.7000e-004**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**1.6304**	**1.6304**	**3.0000e-005**	**0.0000**	**1.6312**

3.5 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7147					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3500e-003	0.0228	0.0317	5.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	4.4682	4.4682	2.7000e-004	0.0000	4.4749
Total	**0.7181**	**0.0228**	**0.0317**	**5.0000e-005**		**1.2400e-003**	**1.2400e-003**		**1.2400e-003**	**1.2400e-003**	**0.0000**	**4.4682**	**4.4682**	**2.7000e-004**	**0.0000**	**4.4749**

3.5 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7500e-003	3.4200e-003	0.0394	1.3000e-004	0.0156	9.0000e-005	0.0156	4.1300e-003	8.0000e-005	4.2100e-003	0.0000	11.7388	11.7388	2.4000e-004	0.0000	11.7448
Total	**5.7500e-003**	**3.4200e-003**	**0.0394**	**1.3000e-004**	**0.0156**	**9.0000e-005**	**0.0156**	**4.1300e-003**	**8.0000e-005**	**4.2100e-003**	**0.0000**	**11.7388**	**11.7388**	**2.4000e-004**	**0.0000**	**11.7448**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7147					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3500e-003	0.0228	0.0317	5.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	4.4682	4.4682	2.7000e-004	0.0000	4.4749
Total	**0.7181**	**0.0228**	**0.0317**	**5.0000e-005**		**1.2400e-003**	**1.2400e-003**		**1.2400e-003**	**1.2400e-003**	**0.0000**	**4.4682**	**4.4682**	**2.7000e-004**	**0.0000**	**4.4749**

3.5 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7500e-003	3.4200e-003	0.0394	1.3000e-004	0.0156	9.0000e-005	0.0156	4.1300e-003	8.0000e-005	4.2100e-003	0.0000	11.7388	11.7388	2.4000e-004	0.0000	11.7448
Total	**5.7500e-003**	**3.4200e-003**	**0.0394**	**1.3000e-004**	**0.0156**	**9.0000e-005**	**0.0156**	**4.1300e-003**	**8.0000e-005**	**4.2100e-003**	**0.0000**	**11.7388**	**11.7388**	**2.4000e-004**	**0.0000**	**11.7448**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2680	1.9992	2.7765	0.0133	1.0031	8.7900e-003	1.0119	0.2695	8.2300e-003	0.2777	0.0000	1,236.5305	1,236.5305	0.0522	0.0000	1,237.8355
Unmitigated	0.2630	1.9506	2.6437	0.0126	0.9375	8.2900e-003	0.9457	0.2519	7.7600e-003	0.2596	0.0000	1,167.5677	1,167.5677	0.0508	0.0000	1,168.8366

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	734.38	734.38	734.38	1,725,599	1,846,391
Industrial Park	408.80	408.80	408.80	717,501	767,726
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	1,143.18	1,143.18	1,143.18	2,443,100	2,614,117

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	12.50	4.20	5.40	21.40	0.00	78.60	92	5	3
Industrial Park	12.50	4.20	5.40	5.00	0.00	95.00	79	19	2
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.485148	0.032057	0.165281	0.099527	0.059860	0.020140	0.039000	0.095000	0.000000	0.000000	0.003987	0.000000	0.000000
Industrial Park	0.586375	0.038746	0.199767	0.120293	0.037412	0.012588	0.000000	0.000000	0.000000	0.000000	0.004818	0.000000	0.000000
Other Asphalt Surfaces	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898
Other Non-Asphalt Surfaces	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	-4,979.4735	-4,979.4735	-0.2056	-0.0425	-4,997.2877
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,193.2110	4,193.2110	0.1731	0.0358	4,208.2124
NaturalGas Mitigated	0.0312	0.2834	0.2381	1.7000e-003		0.0215	0.0215		0.0215	0.0215	0.0000	308.5532	308.5532	5.9100e-003	5.6600e-003	310.3868
NaturalGas Unmitigated	0.0312	0.2834	0.2381	1.7000e-003		0.0215	0.0215		0.0215	0.0215	0.0000	308.5532	308.5532	5.9100e-003	5.6600e-003	310.3868

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	4.81047e+006	0.0259	0.2358	0.1981	1.4100e-003		0.0179	0.0179		0.0179	0.0179	0.0000	256.7050	256.7050	4.9200e-003	4.7100e-003	258.2304
Industrial Park	971600	5.2400e-003	0.0476	0.0400	2.9000e-004		3.6200e-003	3.6200e-003		3.6200e-003	3.6200e-003	0.0000	51.8483	51.8483	9.9000e-004	9.5000e-004	52.1564
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0312**	**0.2834**	**0.2381**	**1.7000e-003**		**0.0215**	**0.0215**		**0.0215**	**0.0215**	**0.0000**	**308.5533**	**308.5533**	**5.9100e-003**	**5.6600e-003**	**310.3868**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	4.81047e+006	0.0259	0.2358	0.1981	1.4100e-003		0.0179	0.0179		0.0179	0.0179	0.0000	256.7050	256.7050	4.9200e-003	4.7100e-003	258.2304
Industrial Park	971600	5.2400e-003	0.0476	0.0400	2.9000e-004		3.6200e-003	3.6200e-003		3.6200e-003	3.6200e-003	0.0000	51.8483	51.8483	9.9000e-004	9.5000e-004	52.1564
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0312**	**0.2834**	**0.2381**	**1.7000e-003**		**0.0215**	**0.0215**		**0.0215**	**0.0215**	**0.0000**	**308.5533**	**308.5533**	**5.9100e-003**	**5.6600e-003**	**310.3868**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	4.88821e+006	1,557.4889	0.0643	0.0133	1,563.0609
Industrial Park	8.27227e+006	2,635.7221	0.1088	0.0225	2,645.1514
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**4,193.2110**	**0.1731**	**0.0358**	**4,208.2124**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	-869521	-277.0480	-0.0114	-0.0024	-278.0391
Industrial Park	2.51454e+006	801.1852	0.0331	6.8400e-003	804.0514
Other Asphalt Surfaces	-5.75773e+006	-1,834.5369	-0.0757	-0.0157	-1,841.1000
Other Non-Asphalt Surfaces	-5.75773e+006	-3,669.0738	-0.1515	-0.0313	-3,682.2000
Total		**-4,979.4735**	**-0.2056**	**-0.0425**	**-4,997.2877**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.2536	4.0000e-005	4.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.0000e-003	8.0000e-003	2.0000e-005	0.0000	8.5300e-003
Unmitigated	2.2536	4.0000e-005	4.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.0000e-003	8.0000e-003	2.0000e-005	0.0000	8.5300e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.5259					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.7273					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.8000e-004	4.0000e-005	4.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.0000e-003	8.0000e-003	2.0000e-005	0.0000	8.5300e-003
Total	**2.2536**	**4.0000e-005**	**4.1100e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**8.0000e-003**	**8.0000e-003**	**2.0000e-005**	**0.0000**	**8.5300e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.5259					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.7273					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.8000e-004	4.0000e-005	4.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.0000e-003	8.0000e-003	2.0000e-005	0.0000	8.5300e-003
Total	**2.2536**	**4.0000e-005**	**4.1100e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**8.0000e-003**	**8.0000e-003**	**2.0000e-005**	**0.0000**	**8.5300e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	442.0866	3.2425	0.0797	546.8911
Unmitigated	442.0866	3.2425	0.0797	546.8911

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	34.2389 / 0	152.9116	1.1215	0.0276	189.1620
Industrial Park	64.75 / 0	289.1750	2.1210	0.0521	357.7291
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**442.0866**	**3.2425**	**0.0797**	**546.8911**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	34.2389 / 0	152.9116	1.1215	0.0276	189.1620
Industrial Park	64.75 / 0	289.1750	2.1210	0.0521	357.7291
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**442.0866**	**3.2425**	**0.0797**	**546.8911**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	107.7456	6.3676	0.0000	266.9351
Unmitigated	107.7456	6.3676	0.0000	266.9351

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	183.59	37.2671	2.2024	0.0000	92.3277
Industrial Park	347.2	70.4785	4.1652	0.0000	174.6074
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**107.7456**	**6.3676**	**0.0000**	**266.9351**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	183.59	37.2671	2.2024	0.0000	92.3277
Industrial Park	347.2	70.4785	4.1652	0.0000	174.6074
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**107.7456**	**6.3676**	**0.0000**	**266.9351**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	195.4080	0.0000	0.0000	195.4080

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	276	195.4080	0.0000	0.0000	195.4080
Total		**195.4080**	**0.0000**	**0.0000**	**195.4080**

6627 DHS 109 - Phase 3

Riverside-Salton Sea County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	74.03	1000sqft	1.70	74,030.00	0
Industrial Park	140.00	1000sqft	3.21	140,000.00	0
Other Asphalt Surfaces	7.99	Acre	7.99	348,044.40	0
Other Non-Asphalt Surfaces	3.08	Acre	3.08	134,164.80	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use - Phase 3 is 15.98 ac w/ 214,030 sf bldgs (65.41% cultivation - 140,000 sf), ~50% P3 paving prkg/on-site rdwys (=~7.99 ac), & remainder 3.08 acres landscaping.

Construction Phase - Construction anticipated to start no earlier than October 2023 and be completed by Q4 2025. P3 to be operational in 2025.

Off-road Equipment - Building Construction Phase CalEEMod defautl timing cut in half, equipment has been doubled.

Off-road Equipment -

Grading - Site anticipated to balance.

Architectural Coating - SCAQMD Rule 1113 limits architectural coatings to 50g/L VOC. Architectural coatings have been mitigated to 30 g/L VOC for buildings & 100 g/L VOC for parking areas.

Vehicle Trips - Per TIA, 4.96 trips/TSF light industrial & 1,339 trips/920 TSF = 1.46 trips/TSF cultivation. Light industrial 21.4% trks (C-W) & 78.6% autos (CNW). Industrial Park 95% autos (C-NW) & 5% trks (C-W).

Energy Use - Per applicant, Phase 3- IP ~23,229,377.3 kWh/yr & GI ~2,448,547.6 kWh/yr. Converted to kWh/sf/yr & title-24, non-title 24 & lighting based on default %.

Sequestration - Per the landscape architect, ~836 new trees to be planted on-site. Split per bldg square foot. P3 is 17% bldf sf = 142 trees.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Energy Mitigation - Natural fueled turbine power generators, chillers, solar panels on bldng rooftops & prkng shade structures. Solar to provide ~14,394,331 kWh per year for Phase 3.

Waste Mitigation -

Fleet Mix - Revised vehicle mix per TIA for Light Industrial use of 78.6% Autos, 8% 2-Axle Trucks, 3.9% 3-Axle Trucks & 9.5% 4+ Axle Trucks & cultivation use o 95% autos & 5% 2-axle trucks.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	30.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	30.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	28.00
tblConstructionPhase	NumDays	300.00	424.00
tblConstructionPhase	NumDays	30.00	42.00
tblConstructionPhase	NumDays	20.00	28.00

tblEnergyUse	LightingElect	2.93	9.53
tblEnergyUse	LightingElect	3.66	11.37
tblEnergyUse	NT24E	5.02	16.37
tblEnergyUse	NT24E	2.79	8.66
tblEnergyUse	T24E	2.20	7.18
tblEnergyUse	T24E	3.07	9.51
tblFleetMix	HHD	0.07	0.10
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.55	0.49
tblFleetMix	LDA	0.55	0.59
tblFleetMix	LDT1	0.04	0.03
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.17
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LHD1	0.01	0.06
tblFleetMix	LHD1	0.01	0.04
tblFleetMix	LHD2	4.5300e-003	0.02
tblFleetMix	LHD2	4.5300e-003	0.01
tblFleetMix	MCY	4.4460e-003	3.9220e-003
tblFleetMix	MCY	4.4460e-003	4.7400e-003
tblFleetMix	MDV	0.11	0.10
tblFleetMix	MDV	0.11	0.12
tblFleetMix	MH	7.8900e-004	0.00
tblFleetMix	MH	7.8900e-004	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.4150e-003	0.00

tblFleetMix	OBUS	1.4150e-003	0.00
tblFleetMix	SBUS	8.9200e-004	0.00
tblFleetMix	SBUS	8.9200e-004	0.00
tblFleetMix	UBUS	1.1230e-003	0.00
tblFleetMix	UBUS	1.1230e-003	0.00
tblSequestration	NumberOfNewTrees	0.00	142.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	78.60
tblVehicleTrips	CNW_TTP	13.00	95.00
tblVehicleTrips	CW_TTP	59.00	21.40
tblVehicleTrips	CW_TTP	59.00	5.00
tblVehicleTrips	ST_TR	1.32	4.96
tblVehicleTrips	ST_TR	2.49	1.46
tblVehicleTrips	SU_TR	0.68	4.96
tblVehicleTrips	SU_TR	0.73	1.46
tblVehicleTrips	WD_TR	6.97	4.96
tblVehicleTrips	WD_TR	6.83	1.46

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1014	0.9801	0.8725	2.1500e-003	0.2197	0.0382	0.2579	0.0857	0.0353	0.1210	0.0000	190.6904	190.6904	0.0456	0.0000	191.8296
2024	0.3253	2.7646	3.0590	9.1500e-003	0.3886	0.0830	0.4716	0.1049	0.0780	0.1829	0.0000	828.1826	828.1826	0.0953	0.0000	830.5638
2025	0.5549	1.5287	1.8325	5.2100e-003	0.2146	0.0447	0.2592	0.0579	0.0419	0.0998	0.0000	470.9678	470.9678	0.0592	0.0000	472.4476
Maximum	**0.5549**	**2.7646**	**3.0590**	**9.1500e-003**	**0.3886**	**0.0830**	**0.4716**	**0.1049**	**0.0780**	**0.1829**	**0.0000**	**828.1826**	**828.1826**	**0.0953**	**0.0000**	**830.5638**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1014	0.9801	0.8725	2.1500e-003	0.1086	0.0382	0.1468	0.0396	0.0353	0.0749	0.0000	190.6902	190.6902	0.0456	0.0000	191.8295
2024	0.3253	2.7646	3.0590	9.1500e-003	0.3886	0.0830	0.4716	0.1049	0.0780	0.1829	0.0000	828.1822	828.1822	0.0953	0.0000	830.5635
2025	0.5549	1.5287	1.8325	5.2100e-003	0.2146	0.0447	0.2592	0.0579	0.0419	0.0998	0.0000	470.9676	470.9676	0.0592	0.0000	472.4474
Maximum	**0.5549**	**2.7646**	**3.0590**	**9.1500e-003**	**0.3886**	**0.0830**	**0.4716**	**0.1049**	**0.0780**	**0.1829**	**0.0000**	**828.1822**	**828.1822**	**0.0953**	**0.0000**	**830.5635**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**13.50**	**0.00**	**11.24**	**18.54**	**0.00**	**11.41**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**10-1-2023**	**12-31-2023**	1.0909	1.0909
2	**1-1-2024**	**3-31-2024**	0.7652	0.7652
3	**4-1-2024**	**6-30-2024**	0.7691	0.7691
4	**7-1-2024**	**9-30-2024**	0.7775	0.7775
5	**10-1-2024**	**12-31-2024**	0.7736	0.7736
6	**1-1-2025**	**3-31-2025**	0.7168	0.7168
7	**4-1-2025**	**6-30-2025**	0.7286	0.7286
8	**7-1-2025**	**9-30-2025**	0.6466	0.6466
		Highest	1.0909	1.0909

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.1320	2.0000e-005	2.0600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0200e-003	4.0200e-003	1.0000e-005	0.0000	4.2800e-003
Energy	0.0156	0.1417	0.1190	8.5000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	2,252.2974	2,252.2974	0.0896	0.0208	2,260.7199
Mobile	0.1181	0.9142	1.1680	5.9900e-003	0.4687	3.9700e-003	0.4727	0.1259	3.7100e-003	0.1297	0.0000	556.2941	556.2941	0.0235	0.0000	556.8808
Waste						0.0000	0.0000		0.0000	0.0000	53.8738	0.0000	53.8738	3.1839	0.0000	133.4701
Water						0.0000	0.0000		0.0000	0.0000	15.7023	205.3410	221.0433	1.6213	0.0398	273.4455
Total	**1.2658**	**1.0560**	**1.2891**	**6.8400e-003**	**0.4687**	**0.0148**	**0.4835**	**0.1259**	**0.0145**	**0.1404**	**69.5761**	**3,013.9365**	**3,083.5126**	**4.9182**	**0.0606**	**3,224.5206**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.1320	2.0000e-005	2.0600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0200e-003	4.0200e-003	1.0000e-005	0.0000	4.2800e-003
Energy	0.0156	0.1417	0.1190	8.5000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	-2,334.0449	-2,334.0449	-0.0998	-0.0184	-2,342.0301
Mobile	0.1181	0.9142	1.1680	5.9900e-003	0.4687	3.9700e-003	0.4727	0.1259	3.7100e-003	0.1297	0.0000	556.2941	556.2941	0.0235	0.0000	556.8808
Waste						0.0000	0.0000		0.0000	0.0000	53.8738	0.0000	53.8738	3.1839	0.0000	133.4701
Water						0.0000	0.0000		0.0000	0.0000	15.7023	205.3410	221.0433	1.6213	0.0398	273.4455
Total	**1.2658**	**1.0560**	**1.2891**	**6.8400e-003**	**0.4687**	**0.0148**	**0.4835**	**0.1259**	**0.0145**	**0.1404**	**69.5761**	**-1,572.4057**	**-1,502.8296**	**4.7288**	**0.0214**	**-1,378.2294**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**152.17**	**148.74**	**3.85**	**64.66**	**142.74**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	100.5360
Total	**100.5360**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	10/1/2023	11/28/2023	5	42	
2	Building Construction	Building Construction	11/29/2023	7/14/2025	5	424	
3	Paving	Paving	7/15/2025	8/21/2025	5	28	
4	Architectural Coating	Architectural Coating	8/22/2025	9/30/2025	5	28	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 105

Acres of Paving: 11.07

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 321,045; Non-Residential Outdoor: 107,015; Striped Parking Area: 28,933 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	292.00	114.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	58.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1821	0.0000	0.1821	0.0755	0.0000	0.0755	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0698	0.7248	0.5891	1.3000e-003		0.0299	0.0299		0.0275	0.0275	0.0000	114.5239	114.5239	0.0370	0.0000	115.4499
Total	**0.0698**	**0.7248**	**0.5891**	**1.3000e-003**	**0.1821**	**0.0299**	**0.2121**	**0.0755**	**0.0275**	**0.1031**	**0.0000**	**114.5239**	**114.5239**	**0.0370**	**0.0000**	**115.4499**

3.2 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2800e-003	7.6000e-004	8.7600e-003	3.0000e-005	3.4600e-003	2.0000e-005	3.4800e-003	9.2000e-004	2.0000e-005	9.4000e-004	0.0000	2.6086	2.6086	5.0000e-005	0.0000	2.6100
Total	**1.2800e-003**	**7.6000e-004**	**8.7600e-003**	**3.0000e-005**	**3.4600e-003**	**2.0000e-005**	**3.4800e-003**	**9.2000e-004**	**2.0000e-005**	**9.4000e-004**	**0.0000**	**2.6086**	**2.6086**	**5.0000e-005**	**0.0000**	**2.6100**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0710	0.0000	0.0710	0.0295	0.0000	0.0295	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0698	0.7248	0.5891	1.3000e-003		0.0299	0.0299		0.0275	0.0275	0.0000	114.5238	114.5238	0.0370	0.0000	115.4498
Total	**0.0698**	**0.7248**	**0.5891**	**1.3000e-003**	**0.0710**	**0.0299**	**0.1009**	**0.0295**	**0.0275**	**0.0570**	**0.0000**	**114.5238**	**114.5238**	**0.0370**	**0.0000**	**115.4498**

3.2 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2800e-003	7.6000e-004	8.7600e-003	3.0000e-005	3.4600e-003	2.0000e-005	3.4800e-003	9.2000e-004	2.0000e-005	9.4000e-004	0.0000	2.6086	2.6086	5.0000e-005	0.0000	2.6100
Total	**1.2800e-003**	**7.6000e-004**	**8.7600e-003**	**3.0000e-005**	**3.4600e-003**	**2.0000e-005**	**3.4800e-003**	**9.2000e-004**	**2.0000e-005**	**9.4000e-004**	**0.0000**	**2.6086**	**2.6086**	**5.0000e-005**	**0.0000**	**2.6100**

3.3 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0181	0.1654	0.1868	3.1000e-004		8.0500e-003	8.0500e-003		7.5700e-003	7.5700e-003	0.0000	26.6576	26.6576	6.3400e-003	0.0000	26.8161
Total	**0.0181**	**0.1654**	**0.1868**	**3.1000e-004**		**8.0500e-003**	**8.0500e-003**		**7.5700e-003**	**7.5700e-003**	**0.0000**	**26.6576**	**26.6576**	**6.3400e-003**	**0.0000**	**26.8161**

3.3 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0500e-003	0.0830	0.0178	2.7000e-004	6.4900e-003	7.0000e-005	6.5600e-003	1.8700e-003	7.0000e-005	1.9400e-003	0.0000	26.0438	26.0438	1.7000e-003	0.0000	26.0864
Worker	0.0102	6.0800e-003	0.0701	2.3000e-004	0.0276	1.6000e-004	0.0278	7.3400e-003	1.5000e-004	7.4900e-003	0.0000	20.8565	20.8565	4.3000e-004	0.0000	20.8673
Total	**0.0123**	**0.0891**	**0.0878**	**5.0000e-004**	**0.0341**	**2.3000e-004**	**0.0344**	**9.2100e-003**	**2.2000e-004**	**9.4300e-003**	**0.0000**	**46.9003**	**46.9003**	**2.1300e-003**	**0.0000**	**46.9537**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0181	0.1654	0.1868	3.1000e-004		8.0500e-003	8.0500e-003		7.5700e-003	7.5700e-003	0.0000	26.6575	26.6575	6.3400e-003	0.0000	26.8161
Total	**0.0181**	**0.1654**	**0.1868**	**3.1000e-004**		**8.0500e-003**	**8.0500e-003**		**7.5700e-003**	**7.5700e-003**	**0.0000**	**26.6575**	**26.6575**	**6.3400e-003**	**0.0000**	**26.8161**

3.3 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0500e-003	0.0830	0.0178	2.7000e-004	6.4900e-003	7.0000e-005	6.5600e-003	1.8700e-003	7.0000e-005	1.9400e-003	0.0000	26.0438	26.0438	1.7000e-003	0.0000	26.0864
Worker	0.0102	6.0800e-003	0.0701	2.3000e-004	0.0276	1.6000e-004	0.0278	7.3400e-003	1.5000e-004	7.4900e-003	0.0000	20.8565	20.8565	4.3000e-004	0.0000	20.8673
Total	**0.0123**	**0.0891**	**0.0878**	**5.0000e-004**	**0.0341**	**2.3000e-004**	**0.0344**	**9.2100e-003**	**2.2000e-004**	**9.4300e-003**	**0.0000**	**46.9003**	**46.9003**	**2.1300e-003**	**0.0000**	**46.9537**

3.3 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
Total	**0.1928**	**1.7611**	**2.1179**	**3.5300e-003**		**0.0803**	**0.0803**		**0.0756**	**0.0756**	**0.0000**	**303.7223**	**303.7223**	**0.0718**	**0.0000**	**305.5179**

3.3 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0229	0.9407	0.1949	3.0800e-003	0.0739	8.0000e-004	0.0747	0.0213	7.7000e-004	0.0221	0.0000	295.3634	295.3634	0.0189	0.0000	295.8368
Worker	0.1097	0.0627	0.7463	2.5300e-003	0.3147	1.8300e-003	0.3165	0.0836	1.6800e-003	0.0853	0.0000	229.0968	229.0968	4.4900e-003	0.0000	229.2092
Total	**0.1326**	**1.0034**	**0.9412**	**5.6100e-003**	**0.3886**	**2.6300e-003**	**0.3912**	**0.1049**	**2.4500e-003**	**0.1074**	**0.0000**	**524.4602**	**524.4602**	**0.0234**	**0.0000**	**525.0460**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
Total	**0.1928**	**1.7611**	**2.1179**	**3.5300e-003**		**0.0803**	**0.0803**		**0.0756**	**0.0756**	**0.0000**	**303.7220**	**303.7220**	**0.0718**	**0.0000**	**305.5175**

3.3 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0229	0.9407	0.1949	3.0800e-003	0.0739	8.0000e-004	0.0747	0.0213	7.7000e-004	0.0221	0.0000	295.3634	295.3634	0.0189	0.0000	295.8368
Worker	0.1097	0.0627	0.7463	2.5300e-003	0.3147	1.8300e-003	0.3165	0.0836	1.6800e-003	0.0853	0.0000	229.0968	229.0968	4.4900e-003	0.0000	229.2092
Total	**0.1326**	**1.0034**	**0.9412**	**5.6100e-003**	**0.3886**	**2.6300e-003**	**0.3912**	**0.1049**	**2.4500e-003**	**0.1074**	**0.0000**	**524.4602**	**524.4602**	**0.0234**	**0.0000**	**525.0460**

3.3 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0950	0.8666	1.1179	1.8700e-003		0.0367	0.0367		0.0345	0.0345	0.0000	161.1840	161.1840	0.0379	0.0000	162.1313
Total	**0.0950**	**0.8666**	**1.1179**	**1.8700e-003**		**0.0367**	**0.0367**		**0.0345**	**0.0345**	**0.0000**	**161.1840**	**161.1840**	**0.0379**	**0.0000**	**162.1313**

3.3 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0118	0.4941	0.0998	1.6200e-003	0.0392	4.2000e-004	0.0396	0.0113	4.0000e-004	0.0117	0.0000	155.6251	155.6251	9.7800e-003	0.0000	155.8695
Worker	0.0550	0.0303	0.3669	1.2900e-003	0.1670	9.5000e-004	0.1679	0.0443	8.8000e-004	0.0452	0.0000	116.6811	116.6811	2.1600e-003	0.0000	116.7352
Total	**0.0668**	**0.5244**	**0.4667**	**2.9100e-003**	**0.2062**	**1.3700e-003**	**0.2075**	**0.0557**	**1.2800e-003**	**0.0569**	**0.0000**	**272.3062**	**272.3062**	**0.0119**	**0.0000**	**272.6046**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0950	0.8666	1.1179	1.8700e-003		0.0367	0.0367		0.0345	0.0345	0.0000	161.1838	161.1838	0.0379	0.0000	162.1311
Total	**0.0950**	**0.8666**	**1.1179**	**1.8700e-003**		**0.0367**	**0.0367**		**0.0345**	**0.0345**	**0.0000**	**161.1838**	**161.1838**	**0.0379**	**0.0000**	**162.1311**

3.3 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0118	0.4941	0.0998	1.6200e-003	0.0392	4.2000e-004	0.0396	0.0113	4.0000e-004	0.0117	0.0000	155.6251	155.6251	9.7800e-003	0.0000	155.8695
Worker	0.0550	0.0303	0.3669	1.2900e-003	0.1670	9.5000e-004	0.1679	0.0443	8.8000e-004	0.0452	0.0000	116.6811	116.6811	2.1600e-003	0.0000	116.7352
Total	**0.0668**	**0.5244**	**0.4667**	**2.9100e-003**	**0.2062**	**1.3700e-003**	**0.2075**	**0.0557**	**1.2800e-003**	**0.0569**	**0.0000**	**272.3062**	**272.3062**	**0.0119**	**0.0000**	**272.6046**

3.4 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0128	0.1201	0.2041	3.2000e-004		5.8600e-003	5.8600e-003		5.3900e-003	5.3900e-003	0.0000	28.0270	28.0270	9.0600e-003	0.0000	28.2536
Paving	0.0105					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0233**	**0.1201**	**0.2041**	**3.2000e-004**		**5.8600e-003**	**5.8600e-003**		**5.3900e-003**	**5.3900e-003**	**0.0000**	**28.0270**	**28.0270**	**9.0600e-003**	**0.0000**	**28.2536**

3.4 Paving - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	3.1000e-004	3.8000e-003	1.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.2074	1.2074	2.0000e-005	0.0000	1.2080
Total	**5.7000e-004**	**3.1000e-004**	**3.8000e-003**	**1.0000e-005**	**1.7300e-003**	**1.0000e-005**	**1.7400e-003**	**4.6000e-004**	**1.0000e-005**	**4.7000e-004**	**0.0000**	**1.2074**	**1.2074**	**2.0000e-005**	**0.0000**	**1.2080**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0128	0.1201	0.2041	3.2000e-004		5.8600e-003	5.8600e-003		5.3900e-003	5.3900e-003	0.0000	28.0269	28.0269	9.0600e-003	0.0000	28.2535
Paving	0.0105					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0233**	**0.1201**	**0.2041**	**3.2000e-004**		**5.8600e-003**	**5.8600e-003**		**5.3900e-003**	**5.3900e-003**	**0.0000**	**28.0269**	**28.0269**	**9.0600e-003**	**0.0000**	**28.2535**

3.4 Paving - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	3.1000e-004	3.8000e-003	1.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.2074	1.2074	2.0000e-005	0.0000	1.2080
Total	**5.7000e-004**	**3.1000e-004**	**3.8000e-003**	**1.0000e-005**	**1.7300e-003**	**1.0000e-005**	**1.7400e-003**	**4.6000e-004**	**1.0000e-005**	**4.7000e-004**	**0.0000**	**1.2074**	**1.2074**	**2.0000e-005**	**0.0000**	**1.2080**

3.5 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3647					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3900e-003	0.0160	0.0253	4.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004	0.0000	3.5746	3.5746	1.9000e-004	0.0000	3.5794
Total	**0.3671**	**0.0160**	**0.0253**	**4.0000e-005**		**7.2000e-004**	**7.2000e-004**		**7.2000e-004**	**7.2000e-004**	**0.0000**	**3.5746**	**3.5746**	**1.9000e-004**	**0.0000**	**3.5794**

3.5 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-003	1.2100e-003	0.0147	5.0000e-005	6.6800e-003	4.0000e-005	6.7200e-003	1.7700e-003	4.0000e-005	1.8100e-003	0.0000	4.6686	4.6686	9.0000e-005	0.0000	4.6708
Total	**2.2000e-003**	**1.2100e-003**	**0.0147**	**5.0000e-005**	**6.6800e-003**	**4.0000e-005**	**6.7200e-003**	**1.7700e-003**	**4.0000e-005**	**1.8100e-003**	**0.0000**	**4.6686**	**4.6686**	**9.0000e-005**	**0.0000**	**4.6708**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3647					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3900e-003	0.0160	0.0253	4.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004	0.0000	3.5746	3.5746	1.9000e-004	0.0000	3.5794
Total	**0.3671**	**0.0160**	**0.0253**	**4.0000e-005**		**7.2000e-004**	**7.2000e-004**		**7.2000e-004**	**7.2000e-004**	**0.0000**	**3.5746**	**3.5746**	**1.9000e-004**	**0.0000**	**3.5794**

3.5 Architectural Coating - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-003	1.2100e-003	0.0147	5.0000e-005	6.6800e-003	4.0000e-005	6.7200e-003	1.7700e-003	4.0000e-005	1.8100e-003	0.0000	4.6686	4.6686	9.0000e-005	0.0000	4.6708
Total	**2.2000e-003**	**1.2100e-003**	**0.0147**	**5.0000e-005**	**6.6800e-003**	**4.0000e-005**	**6.7200e-003**	**1.7700e-003**	**4.0000e-005**	**1.8100e-003**	**0.0000**	**4.6686**	**4.6686**	**9.0000e-005**	**0.0000**	**4.6708**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1181	0.9142	1.1680	5.9900e-003	0.4687	3.9700e-003	0.4727	0.1259	3.7100e-003	0.1297	0.0000	556.2941	556.2941	0.0235	0.0000	556.8808
Unmitigated	0.1181	0.9142	1.1680	5.9900e-003	0.4687	3.9700e-003	0.4727	0.1259	3.7100e-003	0.1297	0.0000	556.2941	556.2941	0.0235	0.0000	556.8808

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	367.19	367.19	367.19	862,800	862,800
Industrial Park	204.40	204.40	204.40	358,751	358,751
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	571.59	571.59	571.59	1,221,550	1,221,550

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	12.50	4.20	5.40	21.40	0.00	78.60	92	5	3
Industrial Park	12.50	4.20	5.40	5.00	0.00	95.00	79	19	2
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.488980	0.031205	0.166473	0.095420	0.058980	0.021020	0.039000	0.095000	0.000000	0.000000	0.003922	0.000000	0.000000
Industrial Park	0.591007	0.037716	0.201207	0.115329	0.036863	0.013137	0.000000	0.000000	0.000000	0.000000	0.004740	0.000000	0.000000
Other Asphalt Surfaces	0.554334	0.035376	0.188722	0.108173	0.012711	0.004530	0.017449	0.070039	0.001415	0.001123	0.004446	0.000892	0.000789
Other Non-Asphalt Surfaces	0.554334	0.035376	0.188722	0.108173	0.012711	0.004530	0.017449	0.070039	0.001415	0.001123	0.004446	0.000892	0.000789

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	-2,488.3215	-2,488.3215	-0.1027	-0.0213	-2,497.2235
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,098.0208	2,098.0208	0.0866	0.0179	2,105.5265
NaturalGas Mitigated	0.0156	0.1417	0.1190	8.5000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	154.2766	154.2766	2.9600e-003	2.8300e-003	155.1934
NaturalGas Unmitigated	0.0156	0.1417	0.1190	8.5000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	154.2766	154.2766	2.9600e-003	2.8300e-003	155.1934

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	2.40523e+006	0.0130	0.1179	0.0990	7.1000e-004		8.9600e-003	8.9600e-003		8.9600e-003	8.9600e-003	0.0000	128.3525	128.3525	2.4600e-003	2.3500e-003	129.1152
Industrial Park	485800	2.6200e-003	0.0238	0.0200	1.4000e-004		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003	0.0000	25.9241	25.9241	5.0000e-004	4.8000e-004	26.0782
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0156**	**0.1417**	**0.1190**	**8.5000e-004**		**0.0108**	**0.0108**		**0.0108**	**0.0108**	**0.0000**	**154.2766**	**154.2766**	**2.9600e-003**	**2.8300e-003**	**155.1934**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	2.40523e+006	0.0130	0.1179	0.0990	7.1000e-004		8.9600e-003	8.9600e-003		8.9600e-003	8.9600e-003	0.0000	128.3525	128.3525	2.4600e-003	2.3500e-003	129.1152
Industrial Park	485800	2.6200e-003	0.0238	0.0200	1.4000e-004		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003	0.0000	25.9241	25.9241	5.0000e-004	4.8000e-004	26.0782
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0156**	**0.1417**	**0.1190**	**8.5000e-004**		**0.0108**	**0.0108**		**0.0108**	**0.0108**	**0.0000**	**154.2766**	**154.2766**	**2.9600e-003**	**2.8300e-003**	**155.1934**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	2.44855e+006	780.1597	0.0322	6.6600e-003	782.9508
Industrial Park	4.13613e+006	1,317.8610	0.0544	0.0113	1,322.5757
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**2,098.0208**	**0.0866**	**0.0179**	**2,105.5265**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	-1.15004e+006	-366.4258	-0.0151	-0.0031	-367.7367
Industrial Park	537552	171.2755	7.0700e-003	1.4600e-003	171.8882
Other Asphalt Surfaces	-3.59858e+006	-1,146.5856	-0.0473	-0.0098	-1,150.6875
Other Non-Asphalt Surfaces	-3.59858e+006	-1,146.5856	-0.0473	-0.0098	-1,150.6875
Total		**-2,488.3215**	**-0.1027**	**-0.0213**	**-2,497.2235**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.1320	2.0000e-005	2.0600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0200e-003	4.0200e-003	1.0000e-005	0.0000	4.2800e-003
Unmitigated	1.1320	2.0000e-005	2.0600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0200e-003	4.0200e-003	1.0000e-005	0.0000	4.2800e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2648					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8671					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.9000e-004	2.0000e-005	2.0600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0200e-003	4.0200e-003	1.0000e-005	0.0000	4.2800e-003
Total	**1.1320**	**2.0000e-005**	**2.0600e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**4.0200e-003**	**4.0200e-003**	**1.0000e-005**	**0.0000**	**4.2800e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2648					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8671					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.9000e-004	2.0000e-005	2.0600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0200e-003	4.0200e-003	1.0000e-005	0.0000	4.2800e-003
Total	**1.1320**	**2.0000e-005**	**2.0600e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**4.0200e-003**	**4.0200e-003**	**1.0000e-005**	**0.0000**	**4.2800e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	221.0433	1.6213	0.0398	273.4455
Unmitigated	221.0433	1.6213	0.0398	273.4455

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	17.1194 / 0	76.4558	0.5608	0.0138	94.5810
Industrial Park	32.375 / 0	144.5875	1.0605	0.0261	178.8645
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**221.0433**	**1.6213**	**0.0398**	**273.4455**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	17.1194 / 0	76.4558	0.5608	0.0138	94.5810
Industrial Park	32.375 / 0	144.5875	1.0605	0.0261	178.8645
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**221.0433**	**1.6213**	**0.0398**	**273.4455**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	53.8738	3.1839	0.0000	133.4701
Unmitigated	53.8738	3.1839	0.0000	133.4701

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	91.8	18.6346	1.1013	0.0000	46.1664
Industrial Park	173.6	35.2392	2.0826	0.0000	87.3037
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**53.8738**	**3.1839**	**0.0000**	**133.4701**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	91.8	18.6346	1.1013	0.0000	46.1664
Industrial Park	173.6	35.2392	2.0826	0.0000	87.3037
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**53.8738**	**3.1839**	**0.0000**	**133.4701**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	100.5360	0.0000	0.0000	100.5360

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	142	100.5360	0.0000	0.0000	100.5360
Total		**100.5360**	**0.0000**	**0.0000**	**100.5360**

6627 DHS 109 - Phase 4

Riverside-Salton Sea County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	74.03	1000sqft	1.70	74,030.00	0
Industrial Park	140.00	1000sqft	3.21	140,000.00	0
Other Asphalt Surfaces	9.85	Acre	9.85	428,848.20	0
Other Non-Asphalt Surfaces	2.40	Acre	2.40	104,544.00	0
Other Non-Asphalt Surfaces	2.53	Acre	2.53	110,206.80	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

6627 DHS 109 - Phase 4 - Riverside-Salton Sea County, Annual

Project Characteristics -

Land Use - Phase 4 is 19.69 ac w/ 214,030 bldgs (65.41% cultivation = 140,000sf), ~50% P4 paving prkg/on-site rdwys (~9.845ac), 2.4 acres of basins, & remainder 2.53 acres landscaping.

Construction Phase - Construction anticipated to start no earlier than October 2025 and end in Q4 2027. P4 to be operational in 2027.

Grading - Site anticipated to balance.

Architectural Coating - SCAQMD Rule 1113 limits architectural coatings to 50g/L VOC. Architectural coatings have been mitigated to 30 g/L VOC for buildings & 100 g/L VOC for parking areas.

Vehicle Trips - Per TIA, 4.96 trips/TSF light industrial & 1,339 trips/920 TSF = 1.46 trips/TSF cultivation. Light industrial 21.4% trks (C-W) & 78.6% autos (CNW). Industrial Park 95% autos (C-NW) & 5% trks (C-W).

Energy Use - Per applicant, Phase 4- IP ~4,136,134.4 kWh/yr & GI ~2,448,547.6kWh/yr. Converted to kWh/sf/yr & title-24, non-title 24 & lighting based on default %.

Sequestration - Per the landscape architect, ~836 new trees to be planted on-site. Split per bldg square foot. P4 is 17% bldf sf = 142 trees.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Energy Mitigation - Natural fueled turbine power generators, chillers, solar panels on bldng rooftops & prkng shade structures. Solar to provide ~14,394,331 kWh per year for Phase 4.

Waste Mitigation -

Fleet Mix - Revised vehicle mix per TIA for Light Industrial use of 78.6% Autos, 8% 2-Axle Trucks, 3.9% 3-Axle Trucks & 9.5% 4+ Axle Trucks & industrial park (cultivation use) of 95% autos & 5% 2-axle trucks.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	30.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	30.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	29.00
tblConstructionPhase	NumDays	300.00	423.00
tblConstructionPhase	NumDays	30.00	42.00
tblConstructionPhase	NumDays	20.00	29.00
tblEnergyUse	LightingElect	2.93	9.53
tblEnergyUse	LightingElect	3.66	11.37

tblEnergyUse	NT24E	5.02	16.37
tblEnergyUse	NT24E	2.79	8.66
tblEnergyUse	T24E	2.20	7.18
tblEnergyUse	T24E	3.07	9.51
tblFleetMix	HHD	0.07	0.10
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.56	0.49
tblFleetMix	LDA	0.56	0.59
tblFleetMix	LDT1	0.03	0.03
tblFleetMix	LDT1	0.03	0.04
tblFleetMix	LDT2	0.19	0.17
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LHD1	0.01	0.06
tblFleetMix	LHD1	0.01	0.04
tblFleetMix	LHD2	4.3370e-003	0.02
tblFleetMix	LHD2	4.3370e-003	0.01
tblFleetMix	MCY	4.4050e-003	3.8790e-003
tblFleetMix	MCY	4.4050e-003	4.6890e-003
tblFleetMix	MDV	0.11	0.09
tblFleetMix	MDV	0.11	0.11
tblFleetMix	MH	7.0500e-004	0.00
tblFleetMix	MH	7.0500e-004	0.00
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.4210e-003	0.00
tblFleetMix	OBUS	1.4210e-003	0.00
tblFleetMix	SBUS	8.6700e-004	0.00

tblFleetMix	SBUS	8.6700e-004	0.00
tblFleetMix	UBUS	1.1010e-003	0.00
tblFleetMix	UBUS	1.1010e-003	0.00
tblSequestration	NumberOfNewTrees	0.00	142.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	78.60
tblVehicleTrips	CNW_TTP	13.00	95.00
tblVehicleTrips	CW_TTP	59.00	21.40
tblVehicleTrips	CW_TTP	59.00	5.00
tblVehicleTrips	ST_TR	1.32	4.96
tblVehicleTrips	ST_TR	2.49	1.46
tblVehicleTrips	SU_TR	0.68	4.96
tblVehicleTrips	SU_TR	0.73	1.46
tblVehicleTrips	WD_TR	6.97	4.96
tblVehicleTrips	WD_TR	6.83	1.46

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2025	0.0927	0.8490	0.8530	2.2700e-003	0.2295	0.0304	0.2599	0.0883	0.0281	0.1164	0.0000	202.7808	202.7808	0.0462	0.0000	203.9346
2026	0.3260	2.8276	3.1155	0.0101	0.4776	0.0719	0.5495	0.1289	0.0677	0.1966	0.0000	922.0049	922.0049	0.0978	0.0000	924.4490
2027	0.5876	1.6292	1.8746	5.7500e-003	0.2629	0.0448	0.3077	0.0709	0.0421	0.1130	0.0000	521.3646	521.3646	0.0609	0.0000	522.8858
Maximum	**0.5876**	**2.8276**	**3.1155**	**0.0101**	**0.4776**	**0.0719**	**0.5495**	**0.1289**	**0.0677**	**0.1966**	**0.0000**	**922.0049**	**922.0049**	**0.0978**	**0.0000**	**924.4490**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2025	0.0927	0.8490	0.8530	2.2700e-003	0.1184	0.0304	0.1488	0.0422	0.0281	0.0703	0.0000	202.7806	202.7806	0.0462	0.0000	203.9345
2026	0.3260	2.8276	3.1155	0.0101	0.4776	0.0719	0.5495	0.1289	0.0677	0.1966	0.0000	922.0045	922.0045	0.0978	0.0000	924.4486
2027	0.5876	1.6292	1.8746	5.7500e-003	0.2629	0.0448	0.3077	0.0709	0.0421	0.1130	0.0000	521.3643	521.3643	0.0609	0.0000	522.8855
Maximum	**0.5876**	**2.8276**	**3.1155**	**0.0101**	**0.4776**	**0.0719**	**0.5495**	**0.1289**	**0.0677**	**0.1966**	**0.0000**	**922.0045**	**922.0045**	**0.0978**	**0.0000**	**924.4486**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**11.46**	**0.00**	**9.95**	**15.99**	**0.00**	**10.82**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**10-1-2025**	**12-31-2025**	0.9358	0.9358
2	**1-1-2026**	**3-31-2026**	0.7750	0.7750
3	**4-1-2026**	**6-30-2026**	0.7883	0.7883
4	**7-1-2026**	**9-30-2026**	0.7970	0.7970
5	**10-1-2026**	**12-31-2026**	0.7923	0.7923
6	**1-1-2027**	**3-31-2027**	0.7694	0.7694
7	**4-1-2027**	**6-30-2027**	0.7826	0.7826
8	**7-1-2027**	**9-30-2027**	0.6487	0.6487
		Highest	0.9358	0.9358

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.1481	2.0000e-005	2.1000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0900e-003	4.0900e-003	1.0000e-005	0.0000	4.3500e-003
Energy	0.0156	0.1417	0.1190	8.5000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	2,252.2974	2,252.2974	0.0896	0.0208	2,260.7199
Mobile	0.1073	0.8587	1.0455	5.7300e-003	0.4688	3.6600e-003	0.4724	0.1260	3.4300e-003	0.1294	0.0000	532.4787	532.4787	0.0217	0.0000	533.0214
Waste						0.0000	0.0000		0.0000	0.0000	53.8738	0.0000	53.8738	3.1839	0.0000	133.4701
Water						0.0000	0.0000		0.0000	0.0000	15.7023	205.3410	221.0433	1.6213	0.0398	273.4455
Total	**1.2710**	**1.0004**	**1.1666**	**6.5800e-003**	**0.4688**	**0.0144**	**0.4832**	**0.1260**	**0.0142**	**0.1402**	**69.5761**	**2,990.1212**	**3,059.6973**	**4.9164**	**0.0606**	**3,200.6613**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.1481	2.0000e-005	2.1000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0900e-003	4.0900e-003	1.0000e-005	0.0000	4.3500e-003
Energy	0.0156	0.1417	0.1190	8.5000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	-2,334.0449	-2,334.0449	-0.0998	-0.0184	-2,342.0301
Mobile	0.1073	0.8587	1.0455	5.7300e-003	0.4688	3.6600e-003	0.4724	0.1260	3.4300e-003	0.1294	0.0000	532.4787	532.4787	0.0217	0.0000	533.0214
Waste						0.0000	0.0000		0.0000	0.0000	53.8738	0.0000	53.8738	3.1839	0.0000	133.4701
Water						0.0000	0.0000		0.0000	0.0000	15.7023	205.3410	221.0433	1.6213	0.0398	273.4455
Total	**1.2710**	**1.0004**	**1.1666**	**6.5800e-003**	**0.4688**	**0.0144**	**0.4832**	**0.1260**	**0.0142**	**0.1402**	**69.5761**	**-1,596.2210**	**-1,526.6449**	**4.7271**	**0.0214**	**-1,402.0888**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**153.38**	**149.90**	**3.85**	**64.66**	**143.81**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	100.5360
Total	**100.5360**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	10/1/2025	11/27/2025	5	42	
2	Building Construction	Building Construction	11/28/2025	7/13/2027	5	423	
3	Paving	Paving	7/14/2027	8/23/2027	5	29	
4	Architectural Coating	Architectural Coating	8/24/2027	10/1/2027	5	29	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 105

Acres of Paving: 14.78

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 321,045; Non-Residential Outdoor: 107,015; Striped Parking Area: 38,616 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	360.00	141.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	72.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1821	0.0000	0.1821	0.0755	0.0000	0.0755	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0609	0.5868	0.5530	1.3000e-003		0.0238	0.0238		0.0219	0.0219	0.0000	114.4631	114.4631	0.0370	0.0000	115.3885
Total	**0.0609**	**0.5868**	**0.5530**	**1.3000e-003**	**0.1821**	**0.0238**	**0.2059**	**0.0755**	**0.0219**	**0.0974**	**0.0000**	**114.4631**	**114.4631**	**0.0370**	**0.0000**	**115.3885**

3.2 Grading - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1400e-003	6.3000e-004	7.5900e-003	3.0000e-005	3.4600e-003	2.0000e-005	3.4800e-003	9.2000e-004	2.0000e-005	9.4000e-004	0.0000	2.4148	2.4148	4.0000e-005	0.0000	2.4159
Total	**1.1400e-003**	**6.3000e-004**	**7.5900e-003**	**3.0000e-005**	**3.4600e-003**	**2.0000e-005**	**3.4800e-003**	**9.2000e-004**	**2.0000e-005**	**9.4000e-004**	**0.0000**	**2.4148**	**2.4148**	**4.0000e-005**	**0.0000**	**2.4159**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0710	0.0000	0.0710	0.0295	0.0000	0.0295	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0609	0.5868	0.5530	1.3000e-003		0.0238	0.0238		0.0219	0.0219	0.0000	114.4629	114.4629	0.0370	0.0000	115.3884
Total	**0.0609**	**0.5868**	**0.5530**	**1.3000e-003**	**0.0710**	**0.0238**	**0.0948**	**0.0295**	**0.0219**	**0.0513**	**0.0000**	**114.4629**	**114.4629**	**0.0370**	**0.0000**	**115.3884**

3.2 Grading - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1400e-003	6.3000e-004	7.5900e-003	3.0000e-005	3.4600e-003	2.0000e-005	3.4800e-003	9.2000e-004	2.0000e-005	9.4000e-004	0.0000	2.4148	2.4148	4.0000e-005	0.0000	2.4159
Total	**1.1400e-003**	**6.3000e-004**	**7.5900e-003**	**3.0000e-005**	**3.4600e-003**	**2.0000e-005**	**3.4800e-003**	**9.2000e-004**	**2.0000e-005**	**9.4000e-004**	**0.0000**	**2.4148**	**2.4148**	**4.0000e-005**	**0.0000**	**2.4159**

3.3 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0164	0.1496	0.1930	3.2000e-004		6.3300e-003	6.3300e-003		5.9600e-003	5.9600e-003	0.0000	27.8303	27.8303	6.5400e-003	0.0000	27.9939
Total	**0.0164**	**0.1496**	**0.1930**	**3.2000e-004**		**6.3300e-003**	**6.3300e-003**		**5.9600e-003**	**5.9600e-003**	**0.0000**	**27.8303**	**27.8303**	**6.5400e-003**	**0.0000**	**27.9939**

3.3 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.5200e-003	0.1055	0.0213	3.5000e-004	8.3700e-003	9.0000e-005	8.4600e-003	2.4200e-003	9.0000e-005	2.5000e-003	0.0000	33.2346	33.2346	2.0900e-003	0.0000	33.2868
Worker	0.0117	6.4400e-003	0.0781	2.7000e-004	0.0355	2.0000e-004	0.0357	9.4400e-003	1.9000e-004	9.6300e-003	0.0000	24.8380	24.8380	4.6000e-004	0.0000	24.8495
Total	**0.0142**	**0.1120**	**0.0994**	**6.2000e-004**	**0.0439**	**2.9000e-004**	**0.0442**	**0.0119**	**2.8000e-004**	**0.0121**	**0.0000**	**58.0726**	**58.0726**	**2.5500e-003**	**0.0000**	**58.1363**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0164	0.1496	0.1930	3.2000e-004		6.3300e-003	6.3300e-003		5.9600e-003	5.9600e-003	0.0000	27.8303	27.8303	6.5400e-003	0.0000	27.9939
Total	**0.0164**	**0.1496**	**0.1930**	**3.2000e-004**		**6.3300e-003**	**6.3300e-003**		**5.9600e-003**	**5.9600e-003**	**0.0000**	**27.8303**	**27.8303**	**6.5400e-003**	**0.0000**	**27.9939**

3.3 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.5200e-003	0.1055	0.0213	3.5000e-004	8.3700e-003	9.0000e-005	8.4600e-003	2.4200e-003	9.0000e-005	2.5000e-003	0.0000	33.2346	33.2346	2.0900e-003	0.0000	33.2868
Worker	0.0117	6.4400e-003	0.0781	2.7000e-004	0.0355	2.0000e-004	0.0357	9.4400e-003	1.9000e-004	9.6300e-003	0.0000	24.8380	24.8380	4.6000e-004	0.0000	24.8495
Total	**0.0142**	**0.1120**	**0.0994**	**6.2000e-004**	**0.0439**	**2.9000e-004**	**0.0442**	**0.0119**	**2.8000e-004**	**0.0121**	**0.0000**	**58.0726**	**58.0726**	**2.5500e-003**	**0.0000**	**58.1363**

3.3 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	**0.1785**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6549**	**302.6549**	**0.0711**	**0.0000**	**304.4335**

3.3 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0268	1.1361	0.2251	3.7500e-003	0.0910	9.6000e-004	0.0920	0.0263	9.2000e-004	0.0272	0.0000	359.0731	359.0731	0.0221	0.0000	359.6247
Worker	0.1208	0.0642	0.7914	2.8800e-003	0.3865	2.1400e-003	0.3887	0.1027	1.9700e-003	0.1046	0.0000	260.2769	260.2769	4.5600e-003	0.0000	260.3908
Total	**0.1476**	**1.2003**	**1.0164**	**6.6300e-003**	**0.4776**	**3.1000e-003**	**0.4807**	**0.1289**	**2.8900e-003**	**0.1318**	**0.0000**	**619.3500**	**619.3500**	**0.0266**	**0.0000**	**620.0155**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	**0.1784**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6545**	**302.6545**	**0.0711**	**0.0000**	**304.4331**

3.3 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0268	1.1361	0.2251	3.7500e-003	0.0910	9.6000e-004	0.0920	0.0263	9.2000e-004	0.0272	0.0000	359.0731	359.0731	0.0221	0.0000	359.6247
Worker	0.1208	0.0642	0.7914	2.8800e-003	0.3865	2.1400e-003	0.3887	0.1027	1.9700e-003	0.1046	0.0000	260.2769	260.2769	4.5600e-003	0.0000	260.3908
Total	**0.1476**	**1.2003**	**1.0164**	**6.6300e-003**	**0.4776**	**3.1000e-003**	**0.4807**	**0.1289**	**2.8900e-003**	**0.1318**	**0.0000**	**619.3500**	**619.3500**	**0.0266**	**0.0000**	**620.0155**

3.3 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0944	0.8604	1.1098	1.8600e-003		0.0364	0.0364		0.0342	0.0342	0.0000	160.0244	160.0244	0.0376	0.0000	160.9648
Total	**0.0944**	**0.8604**	**1.1098**	**1.8600e-003**		**0.0364**	**0.0364**		**0.0342**	**0.0342**	**0.0000**	**160.0244**	**160.0244**	**0.0376**	**0.0000**	**160.9648**

3.3 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0139	0.5950	0.1161	1.9700e-003	0.0481	5.0000e-004	0.0486	0.0139	4.8000e-004	0.0144	0.0000	188.7952	188.7952	0.0113	0.0000	189.0785
Worker	0.0605	0.0312	0.3912	1.4700e-003	0.2044	1.0700e-003	0.2054	0.0543	9.9000e-004	0.0553	0.0000	133.0575	133.0575	2.2000e-003	0.0000	133.1125
Total	**0.0744**	**0.6262**	**0.5073**	**3.4400e-003**	**0.2525**	**1.5700e-003**	**0.2541**	**0.0682**	**1.4700e-003**	**0.0696**	**0.0000**	**321.8527**	**321.8527**	**0.0135**	**0.0000**	**322.1909**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0944	0.8604	1.1098	1.8600e-003		0.0364	0.0364		0.0342	0.0342	0.0000	160.0242	160.0242	0.0376	0.0000	160.9647
Total	**0.0944**	**0.8604**	**1.1098**	**1.8600e-003**		**0.0364**	**0.0364**		**0.0342**	**0.0342**	**0.0000**	**160.0242**	**160.0242**	**0.0376**	**0.0000**	**160.9647**

3.3 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0139	0.5950	0.1161	1.9700e-003	0.0481	5.0000e-004	0.0486	0.0139	4.8000e-004	0.0144	0.0000	188.7952	188.7952	0.0113	0.0000	189.0785
Worker	0.0605	0.0312	0.3912	1.4700e-003	0.2044	1.0700e-003	0.2054	0.0543	9.9000e-004	0.0553	0.0000	133.0575	133.0575	2.2000e-003	0.0000	133.1125
Total	**0.0744**	**0.6262**	**0.5073**	**3.4400e-003**	**0.2525**	**1.5700e-003**	**0.2541**	**0.0682**	**1.4700e-003**	**0.0696**	**0.0000**	**321.8527**	**321.8527**	**0.0135**	**0.0000**	**322.1909**

3.4 Paving - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0133	0.1244	0.2114	3.3000e-004		6.0700e-003	6.0700e-003		5.5800e-003	5.5800e-003	0.0000	29.0279	29.0279	9.3900e-003	0.0000	29.2626
Paving	0.0129					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0262**	**0.1244**	**0.2114**	**3.3000e-004**		**6.0700e-003**	**6.0700e-003**		**5.5800e-003**	**5.5800e-003**	**0.0000**	**29.0279**	**29.0279**	**9.3900e-003**	**0.0000**	**29.2626**

3.4 Paving - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3000e-004	2.7000e-004	3.4300e-003	1.0000e-005	1.7900e-003	1.0000e-005	1.8000e-003	4.8000e-004	1.0000e-005	4.8000e-004	0.0000	1.1651	1.1651	2.0000e-005	0.0000	1.1655
Total	**5.3000e-004**	**2.7000e-004**	**3.4300e-003**	**1.0000e-005**	**1.7900e-003**	**1.0000e-005**	**1.8000e-003**	**4.8000e-004**	**1.0000e-005**	**4.8000e-004**	**0.0000**	**1.1651**	**1.1651**	**2.0000e-005**	**0.0000**	**1.1655**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0133	0.1244	0.2114	3.3000e-004		6.0700e-003	6.0700e-003		5.5800e-003	5.5800e-003	0.0000	29.0279	29.0279	9.3900e-003	0.0000	29.2626
Paving	0.0129					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0262**	**0.1244**	**0.2114**	**3.3000e-004**		**6.0700e-003**	**6.0700e-003**		**5.5800e-003**	**5.5800e-003**	**0.0000**	**29.0279**	**29.0279**	**9.3900e-003**	**0.0000**	**29.2626**

3.4 Paving - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3000e-004	2.7000e-004	3.4300e-003	1.0000e-005	1.7900e-003	1.0000e-005	1.8000e-003	4.8000e-004	1.0000e-005	4.8000e-004	0.0000	1.1651	1.1651	2.0000e-005	0.0000	1.1655
Total	**5.3000e-004**	**2.7000e-004**	**3.4300e-003**	**1.0000e-005**	**1.7900e-003**	**1.0000e-005**	**1.8000e-003**	**4.8000e-004**	**1.0000e-005**	**4.8000e-004**	**0.0000**	**1.1651**	**1.1651**	**2.0000e-005**	**0.0000**	**1.1655**

3.5 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3871					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4800e-003	0.0166	0.0262	4.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	3.7022	3.7022	2.0000e-004	0.0000	3.7073
Total	**0.3896**	**0.0166**	**0.0262**	**4.0000e-005**		**7.5000e-004**	**7.5000e-004**		**7.5000e-004**	**7.5000e-004**	**0.0000**	**3.7022**	**3.7022**	**2.0000e-004**	**0.0000**	**3.7073**

3.5 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5400e-003	1.3100e-003	0.0164	6.0000e-005	8.5900e-003	5.0000e-005	8.6300e-003	2.2800e-003	4.0000e-005	2.3200e-003	0.0000	5.5923	5.5923	9.0000e-005	0.0000	5.5946
Total	**2.5400e-003**	**1.3100e-003**	**0.0164**	**6.0000e-005**	**8.5900e-003**	**5.0000e-005**	**8.6300e-003**	**2.2800e-003**	**4.0000e-005**	**2.3200e-003**	**0.0000**	**5.5923**	**5.5923**	**9.0000e-005**	**0.0000**	**5.5946**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3871					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4800e-003	0.0166	0.0262	4.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	3.7022	3.7022	2.0000e-004	0.0000	3.7073
Total	**0.3896**	**0.0166**	**0.0262**	**4.0000e-005**		**7.5000e-004**	**7.5000e-004**		**7.5000e-004**	**7.5000e-004**	**0.0000**	**3.7022**	**3.7022**	**2.0000e-004**	**0.0000**	**3.7073**

3.5 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5400e-003	1.3100e-003	0.0164	6.0000e-005	8.5900e-003	5.0000e-005	8.6300e-003	2.2800e-003	4.0000e-005	2.3200e-003	0.0000	5.5923	5.5923	9.0000e-005	0.0000	5.5946
Total	**2.5400e-003**	**1.3100e-003**	**0.0164**	**6.0000e-005**	**8.5900e-003**	**5.0000e-005**	**8.6300e-003**	**2.2800e-003**	**4.0000e-005**	**2.3200e-003**	**0.0000**	**5.5923**	**5.5923**	**9.0000e-005**	**0.0000**	**5.5946**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1073	0.8587	1.0455	5.7300e-003	0.4688	3.6600e-003	0.4724	0.1260	3.4300e-003	0.1294	0.0000	532.4787	532.4787	0.0217	0.0000	533.0214
Unmitigated	0.1073	0.8587	1.0455	5.7300e-003	0.4688	3.6600e-003	0.4724	0.1260	3.4300e-003	0.1294	0.0000	532.4787	532.4787	0.0217	0.0000	533.0214

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	367.19	367.19	367.19	862,800	862,800
Industrial Park	204.40	204.40	204.40	358,751	358,751
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	571.59	571.59	571.59	1,221,550	1,221,550

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	12.50	4.20	5.40	21.40	0.00	78.60	92	5	3
Industrial Park	12.50	4.20	5.40	5.00	0.00	95.00	79	19	2
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.491680	0.030621	0.167316	0.092503	0.058126	0.021874	0.039000	0.095000	0.000000	0.000000	0.003879	0.000000	0.000000
Industrial Park	0.594270	0.037010	0.202227	0.111804	0.036329	0.013671	0.000000	0.000000	0.000000	0.000000	0.004689	0.000000	0.000000
Other Asphalt Surfaces	0.558300	0.034770	0.189987	0.105037	0.011525	0.004337	0.017323	0.070222	0.001421	0.001101	0.004405	0.000867	0.000705
Other Non-Asphalt Surfaces	0.558300	0.034770	0.189987	0.105037	0.011525	0.004337	0.017323	0.070222	0.001421	0.001101	0.004405	0.000867	0.000705

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	-2,488.3215	-2,488.3215	-0.1027	-0.0213	-2,497.2235
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,098.0208	2,098.0208	0.0866	0.0179	2,105.5265
NaturalGas Mitigated	0.0156	0.1417	0.1190	8.5000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	154.2766	154.2766	2.9600e-003	2.8300e-003	155.1934
NaturalGas Unmitigated	0.0156	0.1417	0.1190	8.5000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	154.2766	154.2766	2.9600e-003	2.8300e-003	155.1934

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	2.40523e+006	0.0130	0.1179	0.0990	7.1000e-004		8.9600e-003	8.9600e-003		8.9600e-003	8.9600e-003	0.0000	128.3525	128.3525	2.4600e-003	2.3500e-003	129.1152
Industrial Park	485800	2.6200e-003	0.0238	0.0200	1.4000e-004		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003	0.0000	25.9241	25.9241	5.0000e-004	4.8000e-004	26.0782
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0156**	**0.1417**	**0.1190**	**8.5000e-004**		**0.0108**	**0.0108**		**0.0108**	**0.0108**	**0.0000**	**154.2766**	**154.2766**	**2.9600e-003**	**2.8300e-003**	**155.1934**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	2.40523e+006	0.0130	0.1179	0.0990	7.1000e-004		8.9600e-003	8.9600e-003		8.9600e-003	8.9600e-003	0.0000	128.3525	128.3525	2.4600e-003	2.3500e-003	129.1152
Industrial Park	485800	2.6200e-003	0.0238	0.0200	1.4000e-004		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003	0.0000	25.9241	25.9241	5.0000e-004	4.8000e-004	26.0782
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0156**	**0.1417**	**0.1190**	**8.5000e-004**		**0.0108**	**0.0108**		**0.0108**	**0.0108**	**0.0000**	**154.2766**	**154.2766**	**2.9600e-003**	**2.8300e-003**	**155.1934**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	2.44855e+006	780.1597	0.0322	6.6600e-003	782.9508
Industrial Park	4.13613e+006	1,317.8610	0.0544	0.0113	1,322.5757
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**2,098.0208**	**0.0866**	**0.0179**	**2,105.5265**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	-430319	-137.1087	-0.0057	-0.0012	-137.5992
Industrial Park	1.25727e+006	400.5926	0.0165	3.4200e-003	402.0257
Other Asphalt Surfaces	-2.87887e+006	-917.2685	-0.0379	-0.0078	-920.5500
Other Non-Asphalt Surfaces	-2.87887e+006	-1,834.5369	-0.0757	-0.0157	-1,841.1000
Total		**-2,488.3215**	**-0.1027**	**-0.0213**	**-2,497.2235**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.1481	2.0000e-005	2.1000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0900e-003	4.0900e-003	1.0000e-005	0.0000	4.3500e-003
Unmitigated	1.1481	2.0000e-005	2.1000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0900e-003	4.0900e-003	1.0000e-005	0.0000	4.3500e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2704					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8775					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.9000e-004	2.0000e-005	2.1000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0900e-003	4.0900e-003	1.0000e-005	0.0000	4.3500e-003
Total	**1.1481**	**2.0000e-005**	**2.1000e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**4.0900e-003**	**4.0900e-003**	**1.0000e-005**	**0.0000**	**4.3500e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2704					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8775					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.9000e-004	2.0000e-005	2.1000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0900e-003	4.0900e-003	1.0000e-005	0.0000	4.3500e-003
Total	**1.1481**	**2.0000e-005**	**2.1000e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**4.0900e-003**	**4.0900e-003**	**1.0000e-005**	**0.0000**	**4.3500e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	221.0433	1.6213	0.0398	273.4455
Unmitigated	221.0433	1.6213	0.0398	273.4455

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	17.1194 / 0	76.4558	0.5608	0.0138	94.5810
Industrial Park	32.375 / 0	144.5875	1.0605	0.0261	178.8645
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**221.0433**	**1.6213**	**0.0398**	**273.4455**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	17.1194 / 0	76.4558	0.5608	0.0138	94.5810
Industrial Park	32.375 / 0	144.5875	1.0605	0.0261	178.8645
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**221.0433**	**1.6213**	**0.0398**	**273.4455**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	53.8738	3.1839	0.0000	133.4701
Unmitigated	53.8738	3.1839	0.0000	133.4701

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	91.8	18.6346	1.1013	0.0000	46.1664
Industrial Park	173.6	35.2392	2.0826	0.0000	87.3037
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**53.8738**	**3.1839**	**0.0000**	**133.4701**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	91.8	18.6346	1.1013	0.0000	46.1664
Industrial Park	173.6	35.2392	2.0826	0.0000	87.3037
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**53.8738**	**3.1839**	**0.0000**	**133.4701**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	100.5360	0.0000	0.0000	100.5360

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	142	100.5360	0.0000	0.0000	100.5360
Total		**100.5360**	**0.0000**	**0.0000**	**100.5360**

01-6627 DHS 109 - Off-site Improvements - CONSTRUCTION ANALYSIS ONLY

Riverside-Salton Sea County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	450.00	1000sqft	10.33	450,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2019
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CONSTRUCTION ANALYSIS ONLY - Off-site improvements

Land Use - Off-site improvements to include ~450 TSF of roadway improvements on 15th Avenue from Atlantic Avenue to Little Morongo, Atlantic Avenue from 16th Avenue to Dillon Rd, & 16th Avenue from Atlantic Avenue to the west project boundary.

Construction Phase - Off-site improvements anticipated to occur during grading of Phase 1 (grading modeled as 7/1/2019-10/11/2019).

Grading -

Energy Use -

Construction Off-road Equipment Mitigation -

Off-road Equipment - Off-site grading phase increased by ~1/3 the default timing; therefore, ~1/3 less equipment needed.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	18.00
tblConstructionPhase	NumDays	30.00	40.00
tblConstructionPhase	NumDays	20.00	17.00
tblConstructionPhase	PhaseEndDate	10/4/2019	10/11/2019
tblConstructionPhase	PhaseEndDate	8/9/2019	8/25/2019
tblConstructionPhase	PhaseEndDate	9/6/2019	9/17/2019
tblConstructionPhase	PhaseStartDate	9/7/2019	9/18/2019
tblConstructionPhase	PhaseStartDate	8/10/2019	8/26/2019
tblGrading	AcresOfGrading	60.00	100.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblTripsAndVMT	WorkerTripNumber	13.00	20.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.2518	0.8803	0.5620	1.0600e-003	0.1806	0.0400	0.2207	0.0738	0.0369	0.1108	0.0000	95.2625	95.2625	0.0278	0.0000	95.9578
Maximum	**0.2518**	**0.8803**	**0.5620**	**1.0600e-003**	**0.1806**	**0.0400**	**0.2207**	**0.0738**	**0.0369**	**0.1108**	**0.0000**	**95.2625**	**95.2625**	**0.0278**	**0.0000**	**95.9578**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.2518	0.8803	0.5620	1.0600e-003	0.0748	0.0400	0.1149	0.0300	0.0369	0.0669	0.0000	95.2624	95.2624	0.0278	0.0000	95.9577
Maximum	**0.2518**	**0.8803**	**0.5620**	**1.0600e-003**	**0.0748**	**0.0400**	**0.1149**	**0.0300**	**0.0369**	**0.0669**	**0.0000**	**95.2624**	**95.2624**	**0.0278**	**0.0000**	**95.9577**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**58.58**	**0.00**	**47.95**	**59.43**	**0.00**	**39.62**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**7-1-2019**	**9-30-2019**	1.0411	1.0411
		Highest	1.0411	1.0411

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	7/1/2019	8/25/2019	5	40	
2	Paving	Paving	8/26/2019	9/17/2019	5	17	
3	Architectural Coating	Architectural Coating	9/18/2019	10/11/2019	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 100

Acres of Paving: 10.33

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 27,000

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	1	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	5	20.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	38.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1735	0.0000	0.1735	0.0719	0.0000	0.0719	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0636	0.7317	0.3950	7.7000e-004		0.0318	0.0318		0.0293	0.0293	0.0000	69.3368	69.3368	0.0219	0.0000	69.8853
Total	**0.0636**	**0.7317**	**0.3950**	**7.7000e-004**	**0.1735**	**0.0318**	**0.2053**	**0.0719**	**0.0293**	**0.1012**	**0.0000**	**69.3368**	**69.3368**	**0.0219**	**0.0000**	**69.8853**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6100e-003	1.1200e-003	0.0119	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.8632	2.8632	8.0000e-005	0.0000	2.8652
Total	**1.6100e-003**	**1.1200e-003**	**0.0119**	**3.0000e-005**	**3.2900e-003**	**2.0000e-005**	**3.3100e-003**	**8.7000e-004**	**2.0000e-005**	**8.9000e-004**	**0.0000**	**2.8632**	**2.8632**	**8.0000e-005**	**0.0000**	**2.8652**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0677	0.0000	0.0677	0.0281	0.0000	0.0281	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0636	0.7317	0.3950	7.7000e-004		0.0318	0.0318		0.0293	0.0293	0.0000	69.3367	69.3367	0.0219	0.0000	69.8852
Total	**0.0636**	**0.7317**	**0.3950**	**7.7000e-004**	**0.0677**	**0.0318**	**0.0995**	**0.0281**	**0.0293**	**0.0573**	**0.0000**	**69.3367**	**69.3367**	**0.0219**	**0.0000**	**69.8852**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6100e-003	1.1200e-003	0.0119	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.8632	2.8632	8.0000e-005	0.0000	2.8652
Total	**1.6100e-003**	**1.1200e-003**	**0.0119**	**3.0000e-005**	**3.2900e-003**	**2.0000e-005**	**3.3100e-003**	**8.7000e-004**	**2.0000e-005**	**8.9000e-004**	**0.0000**	**2.8632**	**2.8632**	**8.0000e-005**	**0.0000**	**2.8652**

3.3 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0124	0.1296	0.1247	1.9000e-004		7.0100e-003	7.0100e-003		6.4500e-003	6.4500e-003	0.0000	17.4039	17.4039	5.5100e-003	0.0000	17.5416
Paving	0.0135					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0259**	**0.1296**	**0.1247**	**1.9000e-004**		**7.0100e-003**	**7.0100e-003**		**6.4500e-003**	**6.4500e-003**	**0.0000**	**17.4039**	**17.4039**	**5.5100e-003**	**0.0000**	**17.5416**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.6000e-004	3.7900e-003	1.0000e-005	1.0500e-003	1.0000e-005	1.0600e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	0.9126	0.9126	3.0000e-005	0.0000	0.9133
Total	**5.1000e-004**	**3.6000e-004**	**3.7900e-003**	**1.0000e-005**	**1.0500e-003**	**1.0000e-005**	**1.0600e-003**	**2.8000e-004**	**1.0000e-005**	**2.8000e-004**	**0.0000**	**0.9126**	**0.9126**	**3.0000e-005**	**0.0000**	**0.9133**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0124	0.1296	0.1247	1.9000e-004		7.0100e-003	7.0100e-003		6.4500e-003	6.4500e-003	0.0000	17.4039	17.4039	5.5100e-003	0.0000	17.5415
Paving	0.0135					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0259**	**0.1296**	**0.1247**	**1.9000e-004**		**7.0100e-003**	**7.0100e-003**		**6.4500e-003**	**6.4500e-003**	**0.0000**	**17.4039**	**17.4039**	**5.5100e-003**	**0.0000**	**17.5415**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.6000e-004	3.7900e-003	1.0000e-005	1.0500e-003	1.0000e-005	1.0600e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	0.9126	0.9126	3.0000e-005	0.0000	0.9133
Total	**5.1000e-004**	**3.6000e-004**	**3.7900e-003**	**1.0000e-005**	**1.0500e-003**	**1.0000e-005**	**1.0600e-003**	**2.8000e-004**	**1.0000e-005**	**2.8000e-004**	**0.0000**	**0.9126**	**0.9126**	**3.0000e-005**	**0.0000**	**0.9133**

3.4 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1564					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4000e-003	0.0165	0.0166	3.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	2.2979	2.2979	1.9000e-004	0.0000	2.3028
Total	**0.1588**	**0.0165**	**0.0166**	**3.0000e-005**		**1.1600e-003**	**1.1600e-003**		**1.1600e-003**	**1.1600e-003**	**0.0000**	**2.2979**	**2.2979**	**1.9000e-004**	**0.0000**	**2.3028**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3800e-003	9.6000e-004	0.0102	3.0000e-005	2.8100e-003	2.0000e-005	2.8300e-003	7.5000e-004	2.0000e-005	7.6000e-004	0.0000	2.4480	2.4480	7.0000e-005	0.0000	2.4498
Total	**1.3800e-003**	**9.6000e-004**	**0.0102**	**3.0000e-005**	**2.8100e-003**	**2.0000e-005**	**2.8300e-003**	**7.5000e-004**	**2.0000e-005**	**7.6000e-004**	**0.0000**	**2.4480**	**2.4480**	**7.0000e-005**	**0.0000**	**2.4498**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1564					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4000e-003	0.0165	0.0166	3.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	2.2979	2.2979	1.9000e-004	0.0000	2.3028
Total	**0.1588**	**0.0165**	**0.0166**	**3.0000e-005**		**1.1600e-003**	**1.1600e-003**		**1.1600e-003**	**1.1600e-003**	**0.0000**	**2.2979**	**2.2979**	**1.9000e-004**	**0.0000**	**2.3028**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3800e-003	9.6000e-004	0.0102	3.0000e-005	2.8100e-003	2.0000e-005	2.8300e-003	7.5000e-004	2.0000e-005	7.6000e-004	0.0000	2.4480	2.4480	7.0000e-005	0.0000	2.4498
Total	**1.3800e-003**	**9.6000e-004**	**0.0102**	**3.0000e-005**	**2.8100e-003**	**2.0000e-005**	**2.8300e-003**	**7.5000e-004**	**2.0000e-005**	**7.6000e-004**	**0.0000**	**2.4480**	**2.4480**	**7.0000e-005**	**0.0000**	**2.4498**

APPENDIX E

POWER RECLAMATION FACILITY INFORMATION

DHS 109 Power & Reclamation Plant
Utilities Generation Summary

The DHS 109 Power and Reclamation Plant (Power Plant) basis of design is to simply produce energy and reclaim normal waste bi-products and combine into one vertically integrated facility. The Power Plant wills serve as an off-grid source of energy and be distributed throughout the DHS 109 Industrial Park site via a microgrid power system. The Power Plant will meet energy plant level reliability in operation and all building code & regulatory requirements. The facility will also meet an N+1 equipment environment (installed spares for equipment to prevent single points of failure of the Power Plant being provided).

The Power Plant will produce up to 60 Mega Watts (MW) of power by using natural gas fired turbine generators for production of the electrical power. No interconnect agreement with any electric utility company has been agreed to at this time. If a connection to the Southern California Edison (SCE) grid would become available in the future, it would serve as "backup" to the DHS 109 microgrid power system to support the facility when more than one turbine generator is out of service or in an extended maintenance period.

The proposed Power Plant has been sited on the building containing condo lots 28, 29, 30 and 31 of the DHS 109 Industrial Park proposed Tentative Parcel Map. The four parcels provide a combined site area of 4.78 Acres and a building footprint of 95,410 SF. While only one building is being proposed to house the Power Plant, all buildings with frontage on Atlantic Avenue will be covered by the Major CUP in the event that additional space for Power Plant facilities is needed (i.e., substation or pump station). The current plan is to co-locate the power generation and all reclamation processes into one large building for a synergistic look to the DHS 109 project in building appearance and design.

The proposed Power Plant structure will house all of the power and reclamations facilities equipment at ground level or in the below grade basement piping gallery level. The exterior of the building will look and feel like the surrounding buildings although slightly taller at 55 feet above grade. Some windows and door areas may be replaced by louvers and larger doors for equipment access. The architectural finishes and general symmetrical arrangement of building fenestration will also remain proportionally equivalent in scale. The proposed building(s) to house the Power Plant equipment will consist of similar architectural vernacular as the buildings proposed within the DHS 109 Industrial Park project. The access plans with sidewalks and parking areas will change slightly with

conversion of parking to streets, landscaping, sidewalks or screened ground level equipment yards for storage and staging to service the facility.

The interior of the buildings will house the power generation, CO2 extraction, boilers, absorption chillers, bio-digesters, water filtration, water cooling, heat exchanger, and pumping equipment. The building will have a basement level with a 26 foot clearance height for housing of the filtration, pumping, switch gear, and piping gallery headers that supply the utility tunnel site distribution system.

Our assumptions are the planned use of standard natural gas fired turbine generator sets available from multiple vendors. The turbine generators will produce at high voltage 12.8 Kilovolt (KV), 3 phase, 60 Hertz (Hz) electrical power distribution to our microgrid system. The use of medium voltage downstream equipment for the DHS 109 Industrial Park point of use is planned.

Power generation waste heat recovery by using the exhaust gases from the turbine generator sets provide an opportunity to extract the waste heat and will allow for the following recovery options, the generation of low-pressure steam, the generation of hot water, or any combination of the two. One of the functional objectives of the Power Plant is to cool down the exhaust stream in order to enable higher operating efficiencies for the power resulting in lower cost of production and lower GHG emissions.

Additional project benefit will be realized by cooling down the exhaust gases to facilitate the CO2 recovery and reuse by the cultivation users within the industrial park. The low-level waste heat can be used to generate: (1) electricity – using Organic Rankine Cycle generators for bottoming power cycle – power can then be used to drive mechanical reclamation process systems with anticipation of generation at 4,160 Volts (V), 3 Phase, 60 Hz level for interior distribution/use; and (2) direct chilled water – using low pressure steam or hot water (or a combination of the two) to run Absorption Chillers to create 45 degree Fahrenheit chilled water for sale to the agricultural users within the industrial park.

Chilled water for cultivation and comfort cooling is made during the waste heat recovery process. The cooling water is used for management of the grow room temperature and humidity, enabling capture of water given off during plant transpiration then the condensed water is collected and returned to the Power Plant and enables the recycling of water. Generation of chilled water and other processes drive the requirement to install cooling water towers to remove the lowest level of waste heat. Providing a centralized chilled water system will benefit the Power Plant system through the utilization of large chillers as being more efficient than multiple small chilling systems and takes advantage

of the free cooling from the recovery of the waste heat from power generation.

Pure reverse osmosis (RO) quality water is produced by the water treatment system to upgrade municipal water and recycled (grey) water to high standards which allow for use by the agricultural tenants within the DHS 109 Industrial Park. The economies of scale play in the production of agricultural feed water for use by end users. Additional enhancements are consistency in management of wastewater being conveyed to Mission Springs Water District and associated compliance with discharge permits, provide agricultural feed water of high quality to end users to reduce crop failure issues, generation of make-up Boiler Feed Water if generation of low-pressure steam is an economically desirable choice in

A fire water system will be required for both the Power Plant and the Industrial Park to meet code. It is anticipated that the sizing of the distribution mains will need to address the future phases of installation. The benefit would be a simplified overall local system.

Grey and cultivation wastewater recovery treatment, the quantities and quality of the wastewater will be a function of the type of reclaim water treatment system used. The wastewater is anticipated to be available as a byproduct of humidity control (water of plant respiration), collection of process drains (wash down water, etc.) from both Power Plant and client systems, and recycling of process dilution water used in the Bio-Digestion system(s).

Water Company distribution as a private Power Plant with control over the distribution in the private Industrial Park, a common/single point of connection is likely to be defined by the City of Desert Hot Springs and/or Mission Springs Water District. Distribution of this potable water within the Industrial Park would be an additional service sold to the client by the Power Plant. Use of this potable water to the end users can be limited (metered) to ensure the clients do not attempt to divert the water to uses which the Power Plant is providing systems for already Use of this potable water should be installed to provide for domestic use only (kitchens, showers, toilets, etc.).

CO2 gas – generation and distribution**,** Carbon Dioxide (CO2) gas is used to enrich the growing atmosphere of the crops to improve productivity of the plants (typically greater than a 30% increase). Concentration is typically increased from 200-350 parts per million (ppm) ambient concentration to 1,500-2,000 ppm growth room concentration. Human safety is of concern when concentrations are greater than 2,000 ppm. Capture of the CO2 is anticipated to be from the cooled exhaust gases of the turbine generator sets. Distribution from the Power Plant is envisioned to be in the form of a gas. This minimizes the amount of energy required for capture and eliminates the cost of liquefaction (compression, cooling and storage of liquid CO2). The distribution system can be limited

to piping and surge tanks. Back up storage of liquid CO2 on site will be needed to support the Power Plant concept.

The Agricultural Organic Waste management is done an onsite by a collection and processing system. The organic waste is collected then recycled through the use of Bio-Digester and Enzyme technology producing a 'Bio Fuel' for use in power generation. Green Organic waste from a licensed cultivation facility, by regulation, must currently be cataloged and disposed of via a tracking system to a licensed landfill facility accepting Class 3 Hazardous Waste material.

The scale of the DHS 109 project warrants installation of a licensed waste disposal system for the project that responds to regulatory compliance requirements and minimizes the risk associated with taking the material off site. This also reduces the traffic trips and overall project carbon footprint. The Power Plant reclamation plan is to install a Bio-Digestor system to facilitate capture and destruction of the green waste. A Bio- Digestor system would require input of low-level waste heat and potentially decrease the load to the Cooling Water Tower segment and a reduction in its size.

%	Use	SF	Watts
70%	Cultivation	907,200	54,523,522
30%	Manufacturing	388,800	11,659,750
	Watts		66,183,273
	kW		66,183
	MW		66

Phase One PV Sol+C72:I102ar Power Contribution

Description	Total All PV	Phase One	Phase Two	Phase Three	Phase Four
Buildings Included In Each Phase	**54**	18.00	18.00	9.00	9.00
Photo Voltaic Annual Production in kWh	**86,365,986.00**	28,788,662	28,788,662	14,394,331	14,394,331
PV Array Output per Building by Phase MW	**8.44**	2.93	2.93	1.29	1.29

Energy & Utilities Plant Production

Description	U/M	Annual Total Qty	Phase One	Phase Two	Phase Three	Phase Four	
			33.33%	33.33%	16.67%	16.67%	
Buildings Included In Each Phase			18	18	9	9	
Total Generation	kW	93,382	31,127	31,127	15,564	15,564	
Building Peak Demand Load	kW	74,705	24,902	24,902	12,451	12,451	
Building Base Load	kW	37,353	12,451	12,451	6,225	6,225	
Annual Power Production - Base L	kWh	327,208,976	109,069,659	109,069,659	54,534,829	54,534,829	37352.62286
Annual Cooling - Base Load	kWh	81,802,244	27,267,415	27,267,415	13,633,707	13,633,707	
Annual CO2 Production - Base Loa	Tns/MWA	1,792	597	597	299	299	Annual Hours
Annual Recycled Water .25 GMP/P	GPD/bldg	14,813	266,642	266,642	133,321	133,321	**8,760.00** ann/hrs
Prime Mover-20MW-Gas Turbine M	Mbtu/hr	8,760	59,321,902	59,321,902	29,660,951	29,660,951	
CO2 Emitted	lbs/co2	5,659,309	1,886,436	1,886,436	943,218	943,218	
CO2 Reclaimed thought plant culti	lbs/co2	943,218	314,406	314,406	157,203	157,203	
Heat Recovery - Absorption Coolin	lbs/co2	1,131,862	377,287	377,287	188,644	188,644	
Annual Power Consumption 'Culti	kWh	24,816,806.4	8,272,268.8	8,272,268.8	4,136,134.4	4,136,134.4	
Annual Power Consumption 'Manu	kWh	14,691,285.6	4,897,095.2	4,897,095.2	2,448,547.6	2,448,547.6	
Total Annual Project Consumption	kWh	39,508,092.0	13,169,364.0	13,169,364.0	6,584,682.0	6,584,682.0	

GHG Emissions in Metric tns /year		GHG Metric Tns per Year	GHG Metric Tons per Year	GHG Metric Tons per Year	GHG Metric Tons per Year	GHG Metric Tons per Day	GHG LBS. per Day
Emissions in Metric tns /year	**CO**	0.00	0.00	0.00	0.00	0	0.00
Emissions in Metric tns /year	**CO2**	597.37	597.37	298.69	298.69	4.90990321	10,801.79
Emissions in Metric tns /year	**METHANE**	0.00	0.00	0.00	0.00	0	0.00
Emissions in Metric tns /year	**N2O**	0.00	0.00	0.00	0.00	0	0.00
Emissions in Metric tns /year	**NH3**	0.00	0.00	0.00	0.00	0	0.00
Emissions in Metric tns /year	**NOX**	2.17	2.17	1.08	1.08	0.017815164	39.19



GANDDINI GROUP, INC.
550 Parkcenter Drive, Suite 202, Santa Ana, CA 92705
714.795.3100 | www.ganddini.com

Appendix C

Biological Resource Assessment

47 1st Street, Suite 1
Redlands, CA 92373-4601
(909) 915-5900

September 17, 2019

Taku Shiozaki
The Altum Group Inc.
73-710 Fred Waring Drive, Suite 219
Palm Desert, CA 92260

RE: BIOLOGICAL RESOURCE ASSESSMENT, JURISDICTIONAL DELINEATION, COACHELLA VALLEY MULTIPLE SPECIES HABITAT CONSERVATION PLAN CONSISTENCY ANALYSIS DHS 109 PROPERTIES – SOUTHEAST CORNER OF 15th AVENUE AND LITTLE MORONGO ROAD IN THE CITY OF DESRT HOT SPRINGS

Dear Mr. Shiozaki

Jericho Systems, Inc. (Jericho) is pleased to provide this letter report that details the results of a general Biological Resources Assessment (BRA) that includes habitat suitability assessments for nesting birds, Burrowing owl (*Athene cunicularia*) [BUOW], Coachella Valley milk-vetch (*Astragalus lentiginosus* var. *coachellae*), a Jurisdictional Waters Delineation (JD), and a Coachella Valley Multiple Species Habitat Conservation Plan Consistency Analysis for the 109 DHS properties proposed by The Altum Group located in the City of Desert Hot Springs.

This report is designed to address potential effects of any development to designated Critical Habitats and/or any species currently listed or formally proposed for listing as endangered or threatened under the federal Endangered Species Act (ESA) and the California Endangered Species Act (CESA), or species designated as sensitive by the California Department of Fish and Wildlife (CDFW), or the California Native Plant Society (CNPS).

Attention was focused sensitive species known to occur locally. This report also addresses resources protected under the Migratory Bird Treaty Act, federal Clean Water Act (CWA) regulated by the U.S. Army Corps of Engineers (USACE) and Regional Water Quality Control Board (RWQCB) respectively; and Section 1602 of the California Fish and Game Code (FCG) administered by the CDFW. Additionally, the Project is located adjacent to the Upper Mission Creek/Big Morongo Canyon and Willow Hole Conservation Areas under the Coachella Valley Multiple Species Habitat Plan (CVMSHCP) and consistency analysis was performed to determine Project requirements under the Plan.

SITE LOCATION

The Project site encompasses approximately 108 acres within Accessor Parcel Numbers (APNs) 665-050-028, 665-080-005, and 665-080-007 and is located at the southeast corner of Little Morongo Road and 15th Avenue in the City of Desert Hot Springs, Riverside County (Figures 1 & 2). The site falls within the *Desert Hot Springs* USGS quadrangle at Township 03 South, Range 04 East, Section 1 within the San Bernardino Baseline and Meridian.

ENVIRONMENTAL SETTING

The surrounding local area of Desert Hot Springs sits at the northwestern entrance to Coachella Valley and south of the Big Morongo Canyon Preserve. The climate is characterized as hot, dry summers and mild winters with an average annual rainfall of approximately five inches. Elevations within the specific parcels are relatively consistent, ranging from approximately 890'-950' above mean seal level with highest elevations at the northwest section of the parcel.

Hydrologically, the Project site is within the Mission Creek Hydrologic Sub-Area (HSA 719.42) which comprises a 73873-acre drainage area within the larger Little Morongo Creek-Morongo Wash Watershed (HUC 181002010404). The Project site is situated in Upper Coachella Valley Hills and Valleys ecoregion. The Upper Coachella Valley Hills and Valleys ecoregion is surrounded by mountains except for the south, which leads to agricultural lands and the Salton Sea. Alluvial deposits are prominent in this region, with sand deposits surrounding some areas. Many species are threatened by habitat loss, and native California fan palms occur within the canyons of the Indio Hills.

METHODS

As stated above, the objective of this document is to determine whether the Project area supports special status or otherwise sensitive species and/ or their habitat, and to address the potential effects associated with the Proposed project on those resources. Prior to conducting the field study, species and habitat information was gathered from the reports related to the specific project and relevant databases for the *Desert Hot Springs* and *Seven Palms* (due to the parcel's proximity) USGS quadrangles to determine which species and/or habitats would be expected to occur on site. These sources include:

- U.S. Fish and Wildlife (USFWS) threatened and endangered species occurrence GIS overlay;
- USFWS Information for Planning and Consultation System (IPaC);
- California Natural Diversity Database (CNDDB) *Rarefind 5*;
- CNDDB Biogeographic Information and Observation System (BIOS);
- California Native Plant Society Electronic Inventory (CNPSEI) database;
- Calflora Database;
- USDA Natural Resources Conservation Service (NRCS) Web Soil Survey;
- USFWS National Wetland Inventory;
- Environmental Protection Agency (EPA) Water Program "My Waters" data layers
- USFWS Designated Critical Habitat Maps

Jericho biologist, Shay Lawrey conducted a general biological resources assessment on August 1, 3, and 6, 2019, with an emphasis on special-status species known to occur in the area. Ms. Lawrey has advanced degrees in biology and multiple years of experience surveying biological resources within Southern California. Ms. Lawrey conducted the systematic and comprehensive survey during calm weather, between the hours of 6 am and 1 pm. Weather conditions during the survey consisted of clear days with temperatures ranging from 78 to 109 degrees Fahrenheit with winds averaging five miles per hour

Wildlife species were detected during field surveys by sight, calls, tracks, scat, or other signs. In addition to species observed, expected wildlife usage of the site was determined per known habitat preferences of regional wildlife species and knowledge of their relative distributions in the area. The

focus of the faunal species surveys was to identify potential habitat for special status wildlife within the project area. Disturbance characteristics and all animal sign encountered on the site are recorded in the results section.

Regarding jurisdictional waters, Ms. Lawrey looked for indicators of active surface flow and corresponding physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris. Suspected jurisdictional areas were checked for the presence of definable channels, soils, and hydrology. Evaluation of potential federal jurisdiction followed the regulations set forth in 33CFR part 328 and the USACE guidance documents and evaluation of potential State jurisdiction followed guidance in the Fish and Game Code and A Review of Stream Processes and Forms in Dryland Watersheds (CDFW, 2010).

Clean Water Act – US Army Corps of Engineers Jurisdiction

The lateral extent of potential USACE jurisdiction was measured at the Ordinary High Watermark (OHWM) in accordance with regulations set forth in 33CFR part 328 and the USACE guidance documents. To be considered a jurisdictional wetland under the federal CWA, Section 404, an area must possess three (3) wetland characteristics: hydrophytic vegetation, hydric soils, and wetland hydrology.

Hydrophytic vegetation: Hydrophytic vegetation is plant life that grows, and is typically adapted for life, in permanently or periodically saturated soils. The hydrophytic vegetation criterion is met if more than 50 percent of the dominant plant species from all strata (tree, shrub, and herb layers) is considered hydrophytic. Hydrophytic species are those included on the 2016 National Wetland Plant List (Arid West Region) (Lichvar, 2016). Each species on the list is rated per a wetland indicator category, as shown in Table 2. To be considered hydrophytic, the species must have wetland indicator status, i.e., be rated as OBL, FACW or FAC.

Table 1. Wetland Indicator Vegetation Categories

Category	Probability
Obligate Wetland (OBL)	Almost always occur in wetlands (estimated probability >99%)
Facultative Wetland (FACW)	Usually occur in wetlands (estimated probability 67 to 99%)
Facultative (FAC)	Equally likely to occur in wetlands and non-wetlands (estimated probability 34 to 66%)
Facultative Upland (FACU)	Usually occur in non-wetlands (estimated probability 67 to 99%)
Obligate Upland (UPL)	Almost always occur in non-wetlands (estimated probability >99%)

Hydric Soil: Soil maps from the USDA-NRCS Web Soil Survey were reviewed for soil types found within the project area. Hydric soils are saturated or inundated long enough during the growing season to develop anaerobic conditions that favor growth and regeneration of hydrophytic vegetation. Generally, hydric soils are dark in color or may be gleyed (bluish, greenish, or grayish), resulting from soil development under anoxic (without oxygen) conditions.

Wetland Hydrology: The wetland hydrology criterion is satisfied at a location based upon conclusions inferred from field observations that indicate an area has a high probability of being inundated or saturated (flooded, ponded, or tidally influenced) long enough during the growing season to develop anaerobic conditions in the surface soil environment, especially the root zone (USACE, 1987 and 2008b).

California Department of Fish and Wildlife

Evaluation of CDFW jurisdiction followed guidance in the Fish and Game Code and A Review of Stream Processes and Forms in Dryland Watersheds (CDFW, 2010). Specifically, CDFW jurisdiction would occur where a stream has a definite course showing evidence of where waters rise to their highest level and to the extent of associated riparian vegetation.

RESULTS

The database searches identified 34 sensitive species (14 plant, 19 vertebrate, 1 invertebrate) and 2 sensitive habitats within the *Desert Hot Springs* and *Seven Palms Valley* USGS 7.5-minute series quadrangle (Attachment B: Figure 3). A full summary of these results is outlined in Attachment A. Database searches revealed that the northern portion of the project falls within the USFWS-designated critical habitat (Figure 4) for Coachella Valley milk-vetch (*Astragalus lentiginosus* var. *coachellae*). Of the 34 sensitive species identified burrowing owl, Coachella Valley milk-vetch, and Coachella Valley fringe-toed lizard are discussed in detail below because their presence has either been determined and/or the site is adjacent to core habitat as identified in the CVMSHCP.

Soils are well drained, consisting of Carsitas cobbly sand, 2 to 9 percent slopes, Carsitas gravelly sand 0 to 9 percent slopes, Carsitas fine sand, 0 to 5 percent slopes, and Myoma fine sand, 0 to 5 percent (Figure 5) with slopes facing southeast. By the USDA (2019) soil series descriptions:

- The Carsitas series consists of very deep, somewhat excessively drained soils that formed in alluvium from granitoid and/or gneissic rocks. The Carsitas soils are on alluvial fans, fan aprons, valley fills, dissected remnants of alluvial fans and in drainageways. Slopes range from 0 to 30 percent. The mean annual precipitation is about 75 millimeters (3 inches) and the mean annual air temperature is about 25 degrees C (77 degrees F).
- The Myoma series are typically light olive-gray fine sands that are formed from sand blown from recent alluvium. Soils are alkaline and occur in elevations ranging from 200’ below sea level to 1,800’ above sea level.

Vegetation on site consists of *Larrea tridentata* Shrubland alliance (Sawyer, Keeler-Wolf, 2018), with species including, creosote bush (*Larrea tridentata*), brittlebush (*Encelia farinosa*), mustard (*Brassica tournefortii*), burrow weed (*Ambrosia dumosa*), burrobrush (*Ambrosia salsola*), cholla (*Cylindropuntia ssp*.), and *Schismus ssp*.

Burrowing owl (BUOW)

BUOW are known to occur locally within suitable habitat areas. BUOW is a ground-dwelling owl typically found in arid prairies, fields, and open areas where vegetation is sparse and low to the ground. The BUOW depends on the presence of mammal burrows, i.e. ground squirrel burrows to provide shelter from predators, inclement weather and to provide a nesting place. They are also known to make use of human-created structures, such as cement culverts and pipes, for burrows. They feed primarily on insects but will also take small rodents, birds, and reptiles. They are active during the day

and night, generally observed in the early morning hours or at twilight. The breeding season for BUOW is February 1 through August 31. The BUOW is not listed under the State or Federal Endangered Species Act but is considered both a State and federal SSC. The BUOW is a protected by the international treaty under the Migratory Bird Treaty Act of 1918 and by State law under the California Fish and Game Code (CDFG Code #3513 & #3503.5).

Per the definition provided in the *2012 CDFG Staff Report on Burrowing Owl Mitigation*, "Burrowing owl habitat generally includes, but is not limited to, short or sparse vegetation (at least at some time of year), presence of burrows, burrow surrogates or presence of fossorial mammal dens, well-drained soils, and abundant and available prey." Therefore, the project site and immediate vicinity contains suitable habitat for this species for the following reasons:

- *Presence of mammals on site that create burrows appropriate for BUOW.*
- *Vegetation on site is not dense with expanses of open ground.*
- *Soils are well-drained*

Ms. Lawrey confirmed the presence of BUOW on the Project site in the north east corner on May 12 and 13, 2016 while conducting a focused survey walking transects spaced 30 meters apart and the CNDDB shows detections of BUOW within the southwestern portion of the Project site. During the 2019 survey BUOW individuals were detected again on site within the northeastern portion in the same locations as previously mapped in 2016. No new BUOW detections were made in 2019.

Coachella Valley milk-vetch

The Coachella Valley milk-vetch is a winter annual (sometimes perennial) herb in the *Astragalus* genus that grows in elevations from 200' to 2,100' in less than 25 locations within the Coachella Valley. Number of individuals varies greatly depending on annual precipitation, which makes population numbers difficult to estimate. Coachella Valley milk-vetch grows erect up to 12 inches tall and can be identified by its silky, white hairs, pink/magenta flowers, two to four-inch leaves, and pear-shaped leaflets. It flowers from February to May and drops seed pods to the ground to be dispersed by wind. Coachella Valley milk-vetch is currently threatened by ongoing development within Coachella Valley and invasive species. Habitat includes dunes and sandy flats, along the disturbed margins of desert washes, in sandy soils in creosote bush scrub, and in course, sandy soils adjacent to roadsides. While the species grows in sand dunes, it is not a direct obligate. Therefore, the Project site and immediate vicinity contain suitable habitat for this species for the following reasons:

- Creosote bush scrub with sandy soils occur on site
- The Project site occurs adjacent to the Morongo Wash, and desert washes are also utilized as habitat for the species
- The Project site occurs adjacent to existing roadsides, which are also utilized as a habitat for this species.

Coachella Valley milk-vetch has confirmed presence on/adjacent to the Project site recorded in the CNDDB from 2006. This species was not found on site during focused surveys in 2016 or 2019.

Coachella Valley fringe-toed lizard

The Coachella Valley fringe-toed lizard is a highly-specialized reptile adapted to fine sand habitats typically referred to as 'blow sands'. Enlarged scales on the lizard's feet help it travel along the loose

sands it inhabits and are the origin of its name 'fringe-toed'. Coachella Valley fringe-toed lizard has a wedge-shaped nose to burrow through sands and specialized nostrils to allow it to breath under sand without inhaling particles. They hibernate through the winter and are active during daytime. When summer temperatures become too extreme, the Coachella Valley fringe-toed lizard will burrow into the sand as refuge from the heat and emerge during early morning and late evening.

Habitat on site consists of creosote scrub with sandy soils. Per the CNDDB, the Project site is within a polygon confirmed for Coachella Valley fringe-toed lizard from 2013; however, this polygon is approximately 62 square miles and is nonspecific. No aspect of the site supports the aeolian soils required by this species. All soils on site have been stabilized over time and no sand dunes exist. This species is presumed absent.

Nesting Birds and Raptors

The site is suitable for use by raptors for foraging purposes. The project site and immediate surrounding areas do contain habitat suitable for nesting birds in general, including the shrubs on site.

Nesting birds are protected under the MBTA which provides protection for nesting birds that are both residents and migrants whether they are considered sensitive by resource agencies. The MBTA makes it unlawful to take, possess, buy, sell, purchase, or barter any migratory bird listed under 50 CFR 10, including feathers or other parts, nests, eggs, or products, except as allowed by implementing regulations (50 CFR 21). The direct injury or death of a migratory bird, due to construction activities or other construction-related disturbance that causes nest abandonment, nestling abandonment, or forced fledging would be considered take under federal law. The USFWS, in coordination with the CDFW administers the MBTA. CDFW's authoritative nexus to MBTA is provided in FGC Sections 3503.5 which protects all birds of prey and their nests and FGC Section 3800 which protects all non-game birds that occur naturally in the State.

Jurisdiction Waters

The Project site is bordered on the west by the Mission Creek channel and on the east by the Morongo wash. (Figure 6). Jurisdictional waters do not occur within the property boundaries. None of the following indicators are present on site: riparian vegetation, facultative, facultative wet or obligate wet vegetation, harrow marks, sand bars shaped by water, racking, rilling, destruction of vegetation, defined bed and bank, distinct line between vegetation types, clear natural scour line, meander bars, mud cracks, staining, silt deposits, litter- organic debris. No jurisdictional waters occur on site.

The Project does occur within the Federal Emergency Management Agency (FEMA)-mapped area for 100-year flood zones (Figure 7). Flood control for washes and creeks are detailed further in the CVMSHCP.

CVMSHCP Consistency Analysis

The CVMSHCP is a regional multi-agency conservation plan that provides for the long-term conservation of approximately 240,000 acres of open space and 27 plant and animal species in the Coachella Valley. The stated overall goal of the CVMSHCP is, "… to enhance and maintain biological diversity and ecosystem processes while allowing future economic growth." The CVMSHCP balances environmental protection and economic development objectives in the plan area and simplifies compliance with endangered species laws.

The Plan is subdivided according to specific resource conservation goals that have been organized according to geographic areas defined as Conservation Areas that serve as natural habitat for covered species. These areas are identified as Core, Essential, or Other Conserved Habitat for special-status plant, invertebrate, amphibian, reptile, bird, and mammal species, Essential Ecological Process Areas, and Biological Corridors and Linkages. For each Conservation Area, Conservation Objectives and required measures are articulated for conserving Core Habitat for covered species, Essential Ecological Processes necessary to maintain habitat viability, Biological Corridors and Linkages as needed, and the less common Conserved Natural Communities.

Conservation Goals are managed within the Conservation Areas as a Reserve System. The Conservation Goals of the CVMSHCP Reserve System are:

- Represent native ecosystem types or natural communities across their natural range of variation in a system of conserved areas.
- Maintain or restore self-sustaining populations or metapopulations of the species included in the Plan to ensure permanent Conservation so that Take Authorization can be obtained for currently Listed Species (animal species) and Non-listed Species can be covered in case they are listed in the future.
- Sustain ecological and evolutionary processes necessary to maintain the functionality of the conserved natural communities and Habitats for the species included in the Plan.
- Maximize connectivity among populations and avoid Habitat fragmentation within Conservation Areas to conserve biological diversity, ecological balance, and connected populations of Covered Species.
- Minimize adverse impacts from OHV use, illegal dumping, edge effects, exotic species, and other disturbances in accordance with the Management and Monitoring Programs.
- Manage the Conservation Areas adaptively to be responsive to short-term and long-term environmental change and new science.

Under the CVMSHCP, a Take Authorization, except for three of the covered species, is allowed for covered activities in accordance with the federal Endangered Species Act (ESA) and the California Natural Community Conservation Planning Act. Covered activities include development permitted or approved by local permittees, which includes new projects approved pursuant to county and city general plans. Take activities are limited within Conservation Areas.

Mitigation for the impacts of development on the covered species and their habitats is through payment of a fee to the City of Coachella which is in turn used by the Coachella Valley Conservation Commission to minimize and mitigate impacts of the Taking and provide for conservation of the covered and non-covered species through the acquisition and maintenance of habitat.

The Project site occurs within CVMSHCP boundaries but does not occur within a Conservation Area (Figure 8). However, the Upper Mission Creek/Big Morongo Canyon and Willow Hole Conservation Areas border the eastern and western boundaries of the Project parcels. The Project therefore, is outside of the jurisdiction for the Conservation Areas under the CVMSHCP, but still subject to Federal, State, and local regulations. Development of the Project site will comply with Land Use Adjacency Guidelines as described in Section 4.5 of the CVMSHCP which are guidelines is to avoid or minimize indirect effects from Development adjacent to or within the Conservation Areas.

The following Land Use Adjacency Guidelines shall be considered for projects adjacent to Conservation Areas and shall be implemented where applicable.

Drainage

A Stormwater Pollution Prevention Plan (SWPPP) and Water Quality Management Plan (WQMP) will be developed as part of this Project to prevent the release of toxins, chemicals, petroleum products, exotic plant materials or other elements that might degrade or harm biological resources or ecosystem processes within the adjacent Conservation Area and to ensure that the quantity and quality of runoff discharged to the adjacent Conservation Area is not altered in an adverse way when compared with existing conditions.

Toxics

The Project does not propose the release of any chemicals and as such, will not result in any discharge to the adjacent Conservation Area.

Lighting

In order to minimize the effects of lighting on to the adjacent Conservation Areas, the Project lighting design will direct lighting toward the developed area and shield it from the adjacent Conservation Area.

Noise

If the Project will generate noise levels in excess of 75 dBA Leq hourly, setbacks, berms, or walls, as appropriate, shall be incorporated to minimize the effects of noise on the adjacent Conservation Area

Invasives

Invasive, non-native plant species shall not be incorporated in the landscape for land uses adjacent to or within a Conservation Area. Landscape treatments adjacent to a Conservation Area shall incorporate native plant materials to the maximum extent feasible. The plants listed in Table 4-113 found on page 4-180 of the CVMSHCP shall not be used adjacent to a Conservation Area.

CONCLUSIONS AND RECOMMENDATIONS

There are confirmed sightings and burrows occupied by burrowing owl on site from Jericho's field surveys. The CNDDB has confirmed records from 2013 within the Project site as well. A qualified biologist(s) will conduct a pre-construction presence/absence survey for burrowing owl at between 14 and 30 days prior to ground disturbance and the second within 24 hours of ground disturbance. If burrowing owl are documented within the Project impact area, a plan for avoidance or passive exclusion shall be made in coordination with the CDFW. If the survey is negative, the Project may proceed without further restrictions related to burrowing owls.

The site is mapped within USFWS-designated critical habitat for Coachella Valley milk-vetch, appropriate habitat for the species is present on site (creosote scrub), and the species has confirmed presence on the site recorded in the CNDDB from 2006. Coachella Valley milk-vetch is a Covered Species under the CVMSHCP; therefore, a focused survey is not required for this species. However, focused surveys for plant species that have a moderate to high potential to occur that are not Covered

Species under the CVMSHCP but are CNPS List 1 or 2 species are recommended. Surveys should be conducted between March and April. These species include Arizona spurge (*Euphorbia arizonica*) and spiny-hair blazing star (*Mentzelia tricuspis*). The surveys should be conducted according to the "Protocals for Surveying and Evaluating Impacts to Special Status and Native Plant Populations and Naturual Communities" (CDFW 2018 or most recent version).

The site conditions are not suitable to support Coachella Valley fringe-toed lizard no further action is warranted or required.

The vegetation on site does have a potential to support nesting birds and foraging raptors such as red-tailed hawks. Therefore, to reduce the potential impacts to nesting birds, the following is recommended:

- Bird nesting season generally extends from February 1 through September 15 in southern California and specifically, April 15 through August 31 for migratory passerine birds. To avoid impacts to nesting birds (common and special status) during the nesting season, a qualified Avian Biologist will conduct pre-construction Nesting Bird Surveys prior to project-related disturbance to nestable vegetation to identify any active nests. If no active nests are found, no further action will be required. If an active nest is found, the biologist will set appropriate no-work buffers around the nest which will be based upon the nesting species, its sensitivity to disturbance, nesting stage and expected types, intensity and duration of disturbance. The nests and buffer zones shall be field checked weekly by a qualified biological monitor. The approved no-work buffer zone shall be clearly marked in the field, within which no disturbance activity shall commence until the qualified biologist has determined the young birds have successfully fledged and the nest is inactive.

The site does not occur within a Conservation Area but does occur adjacent to the Upper Mission Creek/Big Morongo Canyon and Willow Hole Conservation Areas within the CVMSHCP.

Please do not hesitate to contact me at 909-915-5900 should you have any questions or require further information.



Shay Lawrey, President
Ecologist/Regulatory Specialist

Attachments:

Attachment A – Table of Documented Occurrences
Attachment B – Figures
Attachment C – Site Photos

ATTACHMENT A – TABLE OF DOCUMENTED OCCURENCES

Attachment A – Table of Database Queries (CNDDB, IPAC, CNPSEI)

Scientific Name	Common Name	Federal Status State Status Other Status	Habitat	Potential To Occur
Mammals				
Chaetodipus fallax pallidus	pallid San Diego pocket mouse	None None CDFW Species of Special Concern	Desert wash | Pinon & juniper woodlands | Sonoran desert scrub Desert border areas in eastern San Diego County in desert wash, desert scrub, desert succulent scrub, pinyon-juniper, etc. Sandy, herbaceous areas, usually in association with rocks or coarse gravel.	Desert habitat with sandy soils and nearby rocks are present on the Project site. Species has a moderate potential to occur.
Corynorhinus townsendii	Townsend's big-eared bat	None None BLM Sensitive | CDFW Species of Special Concern | IUCN Least Concern | USFS Sensitive | WBWG High Priority	Broadleaved upland forest | Chaparral | Chenopod scrub | Great Basin grassland | Great Basin scrub | Joshua tree woodland | Lower montane coniferous forest | Meadow & seep | Mojavean desert scrub | Riparian forest | Riparian woodland | Sonoran desert scrub | Sonoran thorn woodland | Upper montane coniferous forest | Valley & foothill grassland Throughout California in a wide variety of habitats. Most common in mesic sites. Roosts in the open, hanging from walls and ceilings. Roosting sites limiting. Extremely sensitive to human disturbance.	No mines, caves, or structures that function as roosting habitat are within the Project site. Potential to occur is low.
Neotoma lepida intermedia	San Diego desert woodrat	None None CDFW Species of Special Concern	Coastal scrub Coastal scrub of Southern California from San Diego County to San Luis Obispo County. Moderate to dense canopies preferred. They are particularly abundant in rock outcrops, rocky cliffs, and slopes.	Rock outcrops are within the Project site, and the species is abundant in a variety of desert habitats. Species has a high potential to occur.
Ovis canadensis nelsoni	Peninsular Bighorn Sheep	Endangered Threatened CDFW Fully Protected | USFS Sensitive | BLM Sensitive	Alpine | Alpine dwarf scrub | Chaparral | Chenopod scrub | Great Basin scrub | Mojavean desert scrub | Montane dwarf scrub | Pinon & juniper woodlands | Riparian woodland | Sonoran desert scrub Eastern slopes of the Peninsular Ranges below 4,600 ft elevation. This DPS of the subspecies	Habitat is not in upland area and no detections have occurred within a 3-mile radius (Figure 3). Potential to occur is low.

Scientific Name	Common Name	Federal Status State Status Other Status	Habitat	Potential To Occur
			inhabits the Peninsular Ranges in southern California from the San Jacinto Mountains south to the US-Mexico International Border. Optimal habitat includes steep walled canyons and ridges bisected by rocky or sandy washes, with available water.	
Ovis canadensis nelsoni pop. 2	Peninsular bighorn sheep DPS	Endangered Threatened CDFW Fully Protected	Alpine | Alpine dwarf scrub | Chaparral | Chenopod scrub | Great Basin scrub | Mojavean desert scrub | Montane dwarf scrub | Pinon & juniper woodlands | Riparian woodland | Sonoran desert scrub Eastern slopes of the Peninsular Ranges below 4,600 ft elevation. This DPS of the subspecies inhabits the Peninsular Ranges in southern California from the San Jacinto Mountains south to the US-Mexico International Border. Optimal habitat includes steep walled canyons and ridges bisected by rocky or sandy washes, with available water.	Habitat is not in upland area and no detections have occurred within a 3-mile radius (Figure 3). Potential to occur is low.
Perognathus longimembris bangsi	Palm Springs pocket mouse	None None BLM Sensitive | CDFW Species of Special Concern	Desert wash | Sonoran desert scrub Desert riparian, desert scrub, desert wash and sagebrush habitats. Most common in creosote-dominated desert scrub. Rarely found on rocky sites. Occurs in all canopy coverage classes.	Desert wash is within 500' of the Project site, and creosote scrub is present on site. Species has a moderate potential to occur.
Xerospermophilus tereticaudus chlorus	Palm Springs round-tailed ground squirrel	None None BLM Sensitive | CDFW Species of Special Concern	Chenopod scrub | Sonoran desert scrub Restricted to the Coachella Valley. Prefers desert succulent scrub, desert wash, desert scrub, alkali scrub, and levees. Prefers open, flat, grassy areas in fine-textured, sandy soil. Density correlated with winter rainfall.	Desert scrub (creosote) with sandy soils occurs on the Project site. Species has low to moderate potential to occur.
Birds				

Scientific Name	Common Name	Federal Status State Status Other Status	Habitat	Potential To Occur
Aquila chrysaetos	golden eagle	None None BLM Sensitive | CDF Sensitive | CDFW Fully Protected | CDFW Watch List | IUCN Least Concern | USFWS Birds of Conservation Concern	Broadleaved upland forest | Cismontane woodland | Coastal prairie | Great Basin grassland | Great Basin scrub | Lower montane coniferous forest | Pinon & juniper woodlands | Upper montane coniferous forest | Valley & foothill grassland Rolling foothills, mountain areas, sage-juniper flats, and desert. Cliff-walled canyons provide nesting habitat in most parts of range; also, large trees in open areas.	Montane habitat is not in the Project site. Potential to occur is low.
Athene cunicularia	burrowing owl	None None BLM Sensitive | CDFW Species of Special Concern | IUCN Least Concern | USFWS Birds of Conservation Concern	Coastal prairie | Coastal scrub | Great Basin grassland | Great Basin scrub | Mojavean desert scrub | Sonoran desert scrub | Valley & foothill grassland Open, dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation. Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	Open, dry habitat with well-drained soils and species is confirmed on site.
Empidonax traillii extimus	Southwestern Willow Flycatcher	Endangered Endangered NABCI Red Watch List	Riparian woodland with multiple canopy layers and slow-flowing waters. Riparian woodlands in Southern California.	Riparian woodland is not present on the Project site. Potential to occur is low.
Falco mexicanus	prairie falcon	None None CDFW Watch List | IUCN Least Concern | USFWS Birds of Conservation Concern	Great Basin grassland | Great Basin scrub | Mojavean desert scrub | Sonoran desert scrub | Valley & foothill grassland Inhabits dry, open terrain, either level or hilly. Breeding sites located on cliffs. Forages far afield, even to marshlands and ocean shores.	Desert scrub with dry, open terrain occurs within the Project site. Species has a moderate potential to occur.
Toxostoma lecontei	Le Conte's thrasher	None None CDFW Species of Special Concern | IUCN Least Concern | NABCI Red Watch List	Desert wash | Mojavean desert scrub | Sonoran desert scrub Desert resident; primarily of open desert wash, desert scrub, alkali desert scrub, and desert succulent scrub habitats.	Open desert scrub occurs on the Project site. Species has a moderate potential to occur. Species was not observed during survey.

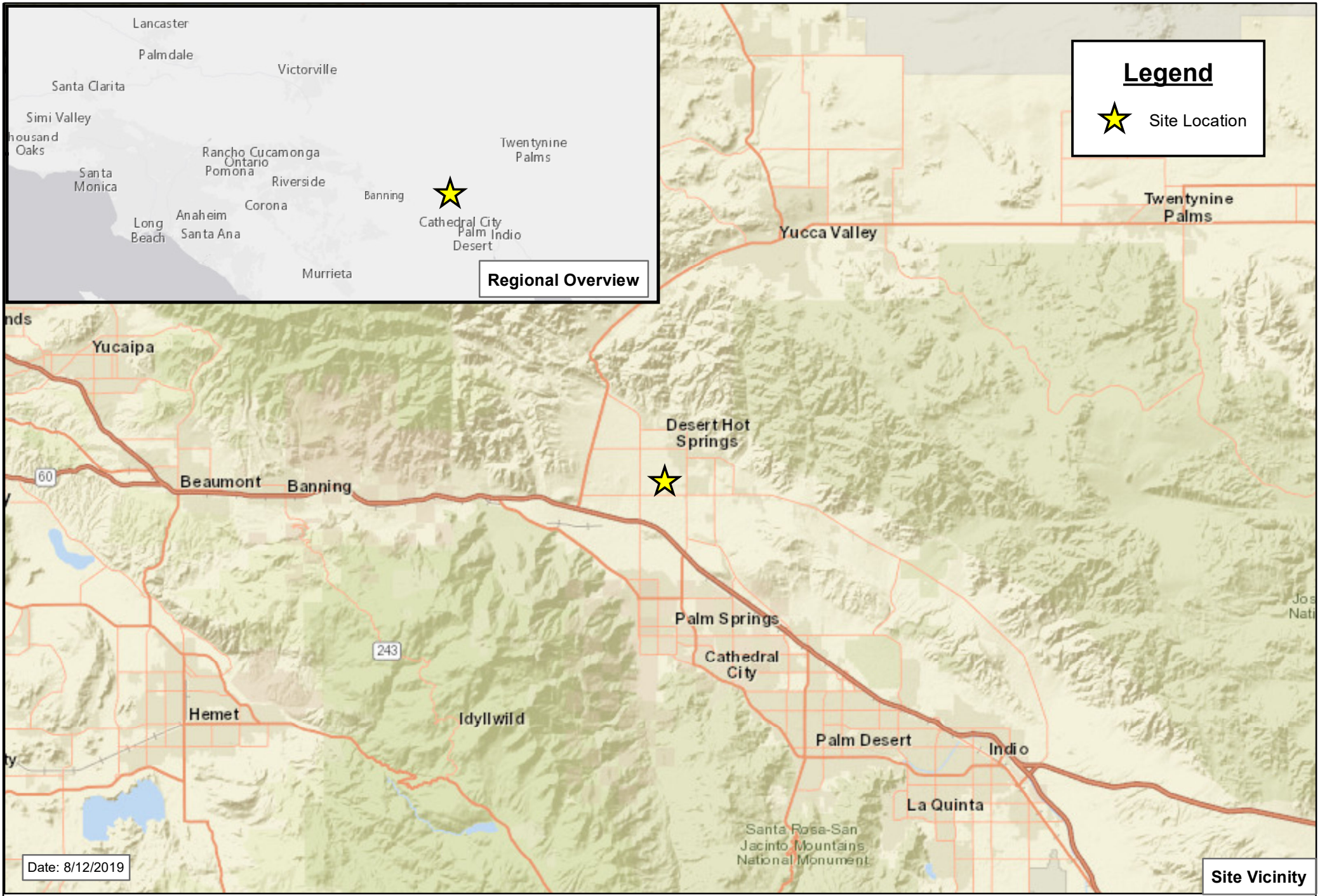
Scientific Name	Common Name	Federal Status State Status Other Status	Habitat	Potential To Occur
		| USFWS Birds of Conservation Concern	Commonly nests in a dense, spiny shrub or densely branched cactus in desert wash habitat, usually 2-8 feet above ground.	
Vireo bellii pusillus	least Bell's vireo	Endangered Endangered IUCN Near Threatened | NABCI Yellow Watch List	Riparian forest | Riparian scrub | Riparian woodland Summer resident of Southern California in low riparian in vicinity of water or in dry river bottoms; below 2000 ft. Nests placed along margins of bushes or on twigs projecting into pathways, usually willow, Baccharis, mesquite.	Riparian forest/scrub does not occur on the Project site. Potential to occur is low.
Reptiles				
Crotalus ruber	red-diamond rattlesnake	None None CDFW Species of Special Concern | USFS Sensitive	Chaparral | Mojavean desert scrub | Sonoran desert scrub Chaparral, woodland, grassland, & desert areas from coastal San Diego County to the eastern slopes of the mountains. Occurs in rocky areas and dense vegetation. Needs rodent burrows, cracks in rocks or surface cover objects.	Rocky areas are within the Project site and scrub occurs on site. Species has a moderate potential to occur.
Gopherus agassizii	desert tortoise	Threatened Threatened IUCN Vulnerable	Joshua tree woodland | Mojavean desert scrub | Sonoran desert scrub Most common in desert scrub, desert wash, and Joshua tree habitats; occurs in almost every desert habitat. Require friable soil for burrow and nest construction. Creosote bush habitat with large annual wildflower blooms preferred.	Desert scrub occurs on site and desert wash occurs within 500'. Species has a low potential to occur.
Phrynosoma blainvillii	coast horned lizard	None None BLM Sensitive | CDFW Species of Special Concern | IUCN Least Concern	Chaparral | Cismontane woodland | Coastal bluff scrub | Coastal scrub | Desert wash | Pinon & juniper woodlands | Riparian scrub | Riparian woodland | Valley & foothill grassland Frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes.	Species is a habitat generalist. Species has a moderate to high potential to occur.

Scientific Name	Common Name	Federal Status State Status Other Status	Habitat	Potential To Occur
			Open areas for sunning, bushes for cover, patches of loose soil for burial, and abundant supply of ants and other insects.	
Phrynosoma mcallii	flat-tailed horned lizard	None None BLM Sensitive | CDFW Species of Special Concern | IUCN Near Threatened	Desert dunes | Mojavean desert scrub | Sonoran desert scrub Restricted to desert washes and desert flats in central Riverside, eastern San Diego, and Imperial counties. Critical habitat element is fine sand, into which lizards burrow to avoid temperature extremes; requires vegetative cover and ants.	Desert wash exists within 500' of the Project site, and slopes on site are relatively flat. Species has a moderate to high potential to occur.
Uma inornata	Coachella Valley fringe-toed lizard	Threatened Endangered IUCN Endangered	Desert dunes | Desert wash Limited to sandy areas in the Coachella Valley, Riverside County. Requires fine, loose, windblown sand (for burrowing), interspersed with hardpan and widely-spaced desert shrubs.	Windblown sand is absent. Soils are stabilized on site. Species has a low potential to occur.
Insects				
Stenopelmatus cahuilaensis	Coachella Valley jerusalem cricket	None None IUCN Vulnerable	Desert dunes Inhabits a small segment of the sand and dune areas of the Coachella Valley, in the vicinity of Palm Springs. Found in the large, undulating dunes piled up at the north base of Mt San Jacinto.	Dune habitat is not present on sielte. Potential to occur is low.
Plants				
Abronia villosa var. aurita	chaparral sand-verbena	None None 1B.1	Chaparral, Coastal scrub, Desert dunes Sandy soils 75-1600 m	Desert habitat with sandy soils occurs on the Project site. Species has low potential to occur.
Aloysia wrightii	Wright's beebrush	None None 4.3	Joshua tree woodland, Pinyon and juniper woodland rocky, often carbonate 900-1600 m	Site elevations are ~330 m. Elevations are too low for species to occur. Potential to occur is low.
Astragalus lentiginosus var. coachellae	Coachella Valley milk-vetch	Endangered None 1B.2	Desert dunes | Sonoran desert scrub Sonoran desert scrub, creosote scrub, desert dunes.	Creosote scrub with sandy soils occurs on the Project site within USFWS-

Scientific Name	Common Name	Federal Status State Status Other Status	Habitat	Potential To Occur
			Sandy flats, washes, outwash fans, sometimes on dunes. 35-695 m.	designated Critical Habitat (Figure 4) and a confirmed 2006 presence on site. Species has moderate potential to occur. Species was not observed during 2016 and 2019 surveys.
Astragalus tricarinatus	triple-ribbed milk-vetch	Endangered None 1B.2	Desert wash | Joshua tree woodland | Sonoran desert scrub Joshua tree woodland, Sonoran desert scrub. Hot, rocky slopes in canyons and along edge of boulder-strewn desert washes, with *Larrea* and *Encelia*. 455-1585 m.	Site elevations are ~330 m. Elevations are too low for species to occur. Potential to occur is low.
Chorizanthe xanti var. leucotheca	white-bracted spineflower	None None BLM Sensitive | 1B.2 | USFS Sensitive	Coastal scrub | Mojavean desert scrub | Pinon & juniper woodlands Mojavean desert scrub, pinyon and juniper woodland, coastal scrub (alluvial fans). Sandy or gravelly places. 365-1830 m.	Site occurs ~30 m lower than recorded occurrences; however, 30 m is a relatively small amount of altitude and habitat on site is desert scrub with sandy soils. Species has a low potential to occur.
Dodecahema leptoceras	slender-horned spineflower	Endangered Endangered 1B.1	Chaparral | Cismontane woodland | Coastal scrub Chaparral, cismontane woodland, coastal scrub (alluvial fan sage scrub). Flood deposited terraces and washes; associates include Encelia, Dalea, Lepidospartum, etc. Sandy soils. 200-765 m.	Sage scrub does not occur on the Project site. Potential to occur is low.
Eriastrum harwoodii	Harwood's eriastrum	None None BLM Sensitive | 1B.2	Desert dunes. Sandy soils. 15-1100m.	Dune habitat is not present on site. Potential to occur is low.
Eschscholzia androuxii	Joshua Tree poppy	None None 4.3	Joshua tree woodland, Mojavean desert scrub Desert washes, flats, and slopes; sandy, gravelly, and/or rocky 585-1685 m	Site elevations occur around 320 m. Site elevations occur lower than the plant has been recorded
Euphorbia arizonica	Arizona spurge	None None	Sonoran desert scrub. Creosote bush scrub. Sandy soils. 150-900 m.	Creosote bush scrub occurs on the Project site. Species

Scientific Name	Common Name	Federal Status State Status Other Status	Habitat	Potential To Occur
		2B.3		has moderate potential to occur.
Euphorbia misera	cliff spurge	None None 2B.2	Coastal bluff scrub | Coastal scrub | Mojavean desert scrub Coastal bluff scrub, coastal scrub, Mojavean desert scrub. Rocky sites. 3-430 m.	Typical habitat association does not occur on site. Potential to occur is low.
Linanthus maculatus ssp. maculatus	Little San Bernardino Mtns. linanthus	None None BLM Sensitive | 1B.2	Desert dunes | Desert wash | Joshua tree woodland | Mojavean desert scrub | Sonoran desert scrub Desert dunes, Sonoran desert scrub, Mojavean desert scrub, Joshua tree woodland. Sandy places. Usually in light-colored quartz sand; often in wash or bajada. 135-1220 m.	Desert scrub within 500' of desert wash occurs on the Project site. Potential to occur is low.
Mentzelia tricuspis	spiny-hair blazing star	None None 2B.1	Mojavean desert scrub Mojavean desert scrub. Sandy or gravelly slopes and washes.150-1280 m.	Sandy soils in desert scrub occurs on the Project site. Species has moderate to high potential to occur.
Nemacaulis denudata var. gracilis	slender cottonheads	None None 2B.2	Coastal dunes | Desert dunes | Sonoran desert scrub Coastal dunes, desert dunes, Sonoran desert scrub. In dunes or sand. -50-400 m.	Dune habitat is absent from the site. Potential to occur is low.
Selaginella eremophila	desert spike-moss	None None 2B.2	Chaparral | Sonoran desert scrub Sonoran desert scrub, chaparral. Shaded sites, gravelly soils; crevices or among rocks. 225-1570 m.	Sandy soils in desert scrub occurs on the Project site. Potential to occur is low.
Habitats				
Desert Fan Palm Oasis Woodland	Desert Fan Palm Oasis Woodland	None None	Riparian woodland	Habitat does not occur on site.
Mesquite Bosque	Mesquite Bosque	None None	Riparian forest	Habitat does not occur on site.

ATTACHMENT B
FIGURES



Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

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Figure 1 - Regional Overview Site Vicinity

Altum Group- DHS Properties 109
Desert Hot Springs, CA

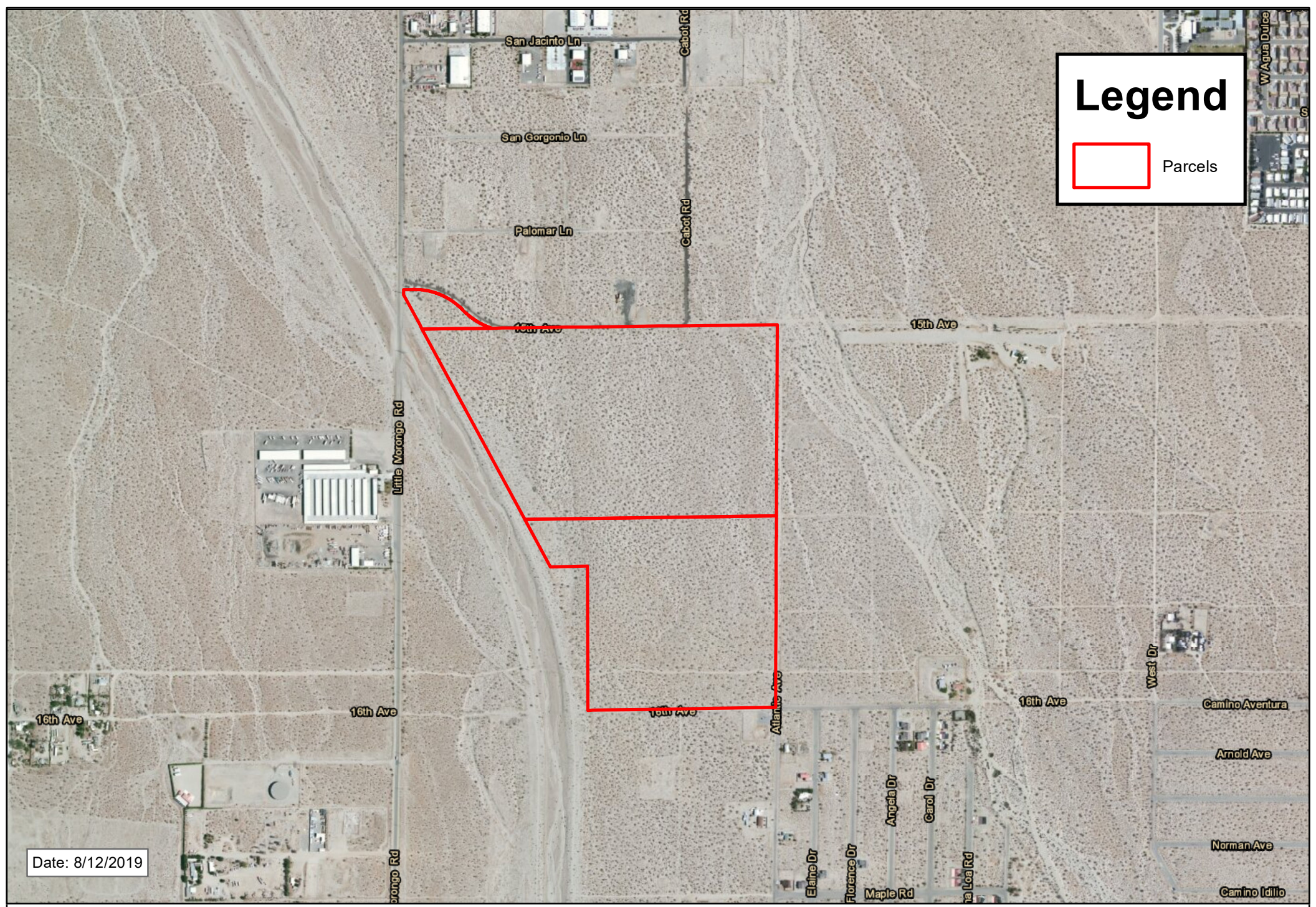
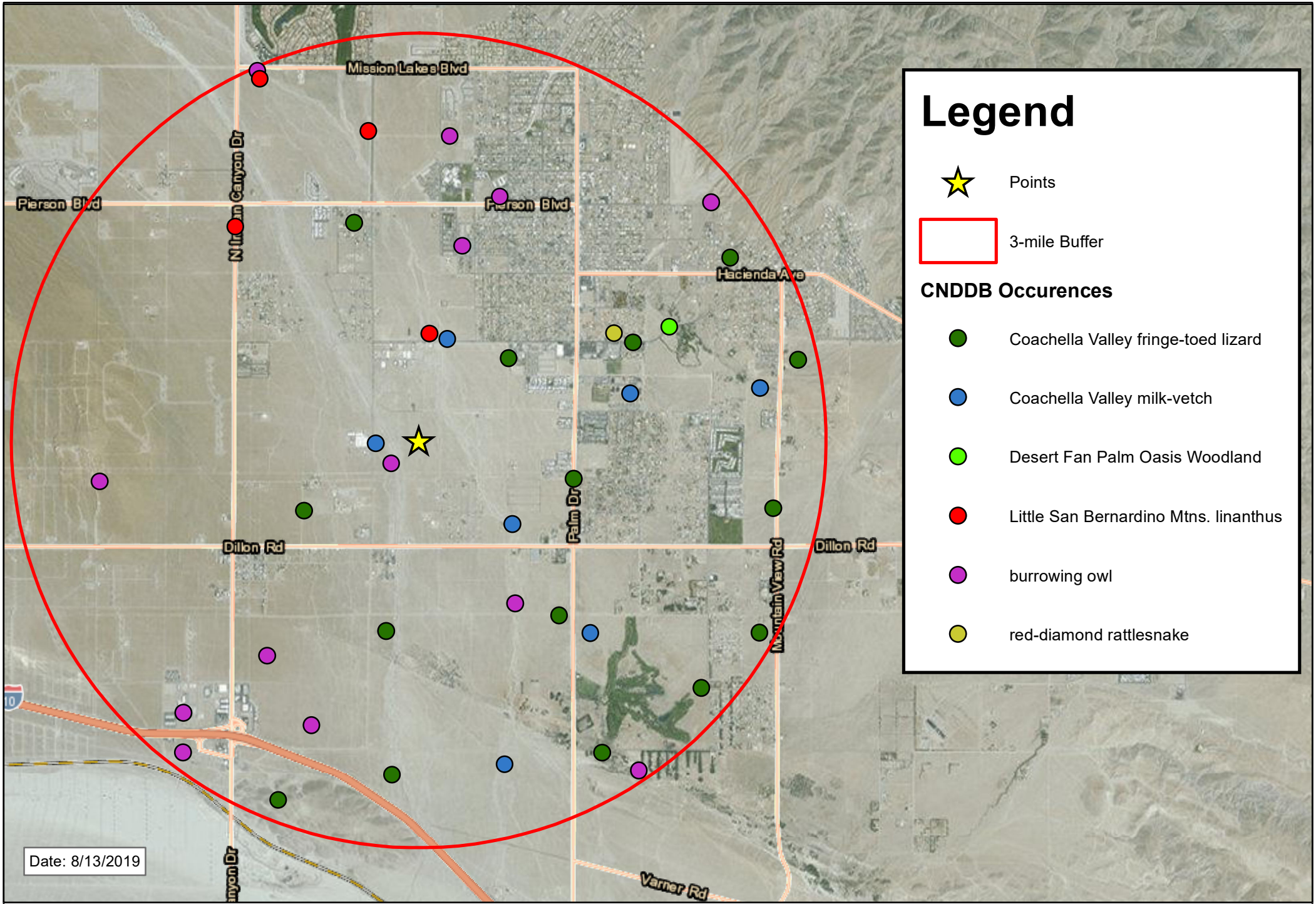


Figure 2
Property Parcels

Altum Group- DHS Properties 109
Desert Hot Springs, CA



0 0.45 0.9 1.8 2.7 3.6 Miles

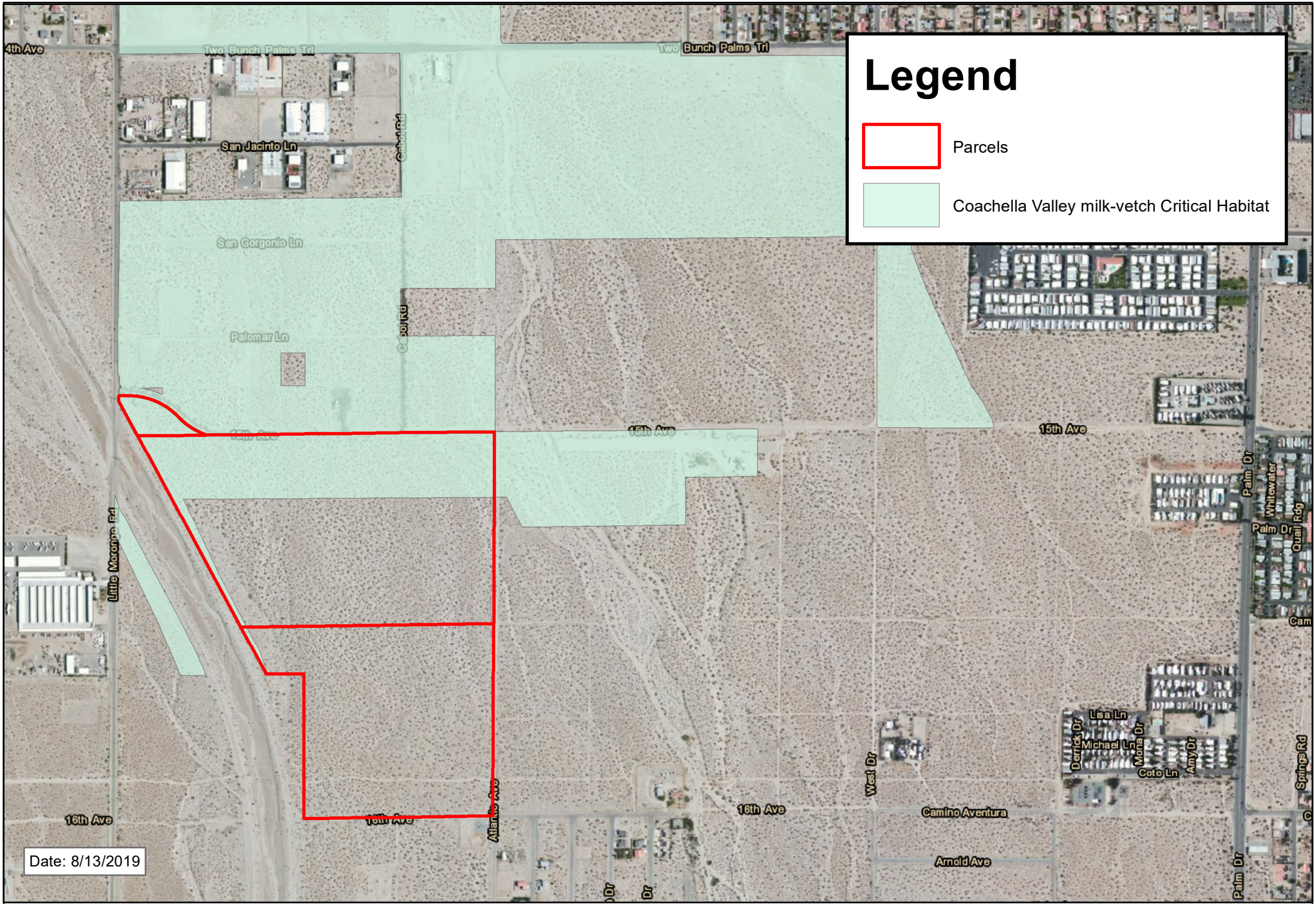
Imagery Date: 8/6/2017

Service Layer Credits: Esri, HERE, Garmin, (c) OpenStreetMap contributors
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

1 inch = 4,679 feet

Figure 3
3-mile CNDDB Occurences

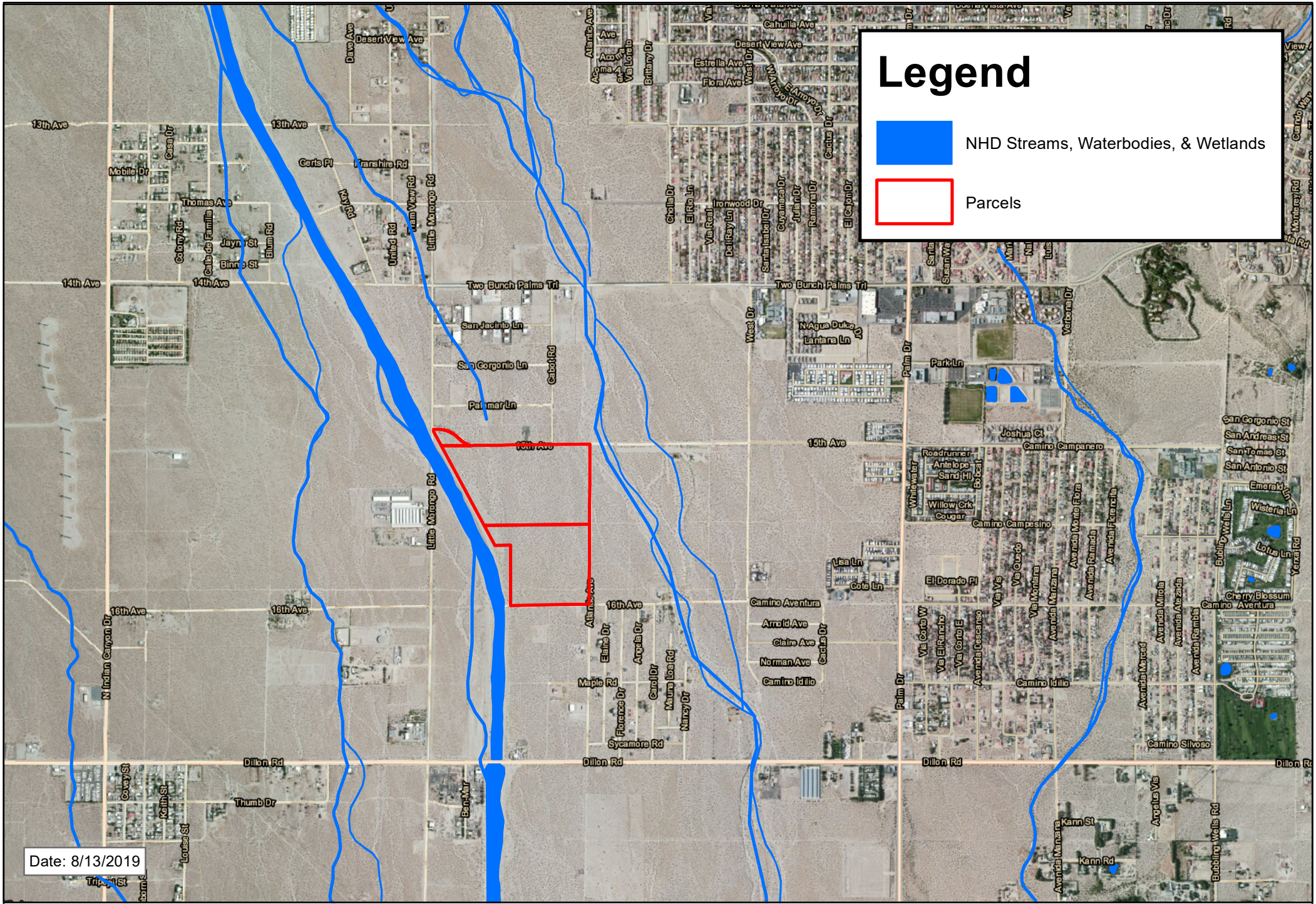
Altum Group- DHS Properties 109
Desert Hot Springs, CA



JERICHO SYSTEMS INCORPORATED

Figure 4
USFWS Designated Critical Habitat

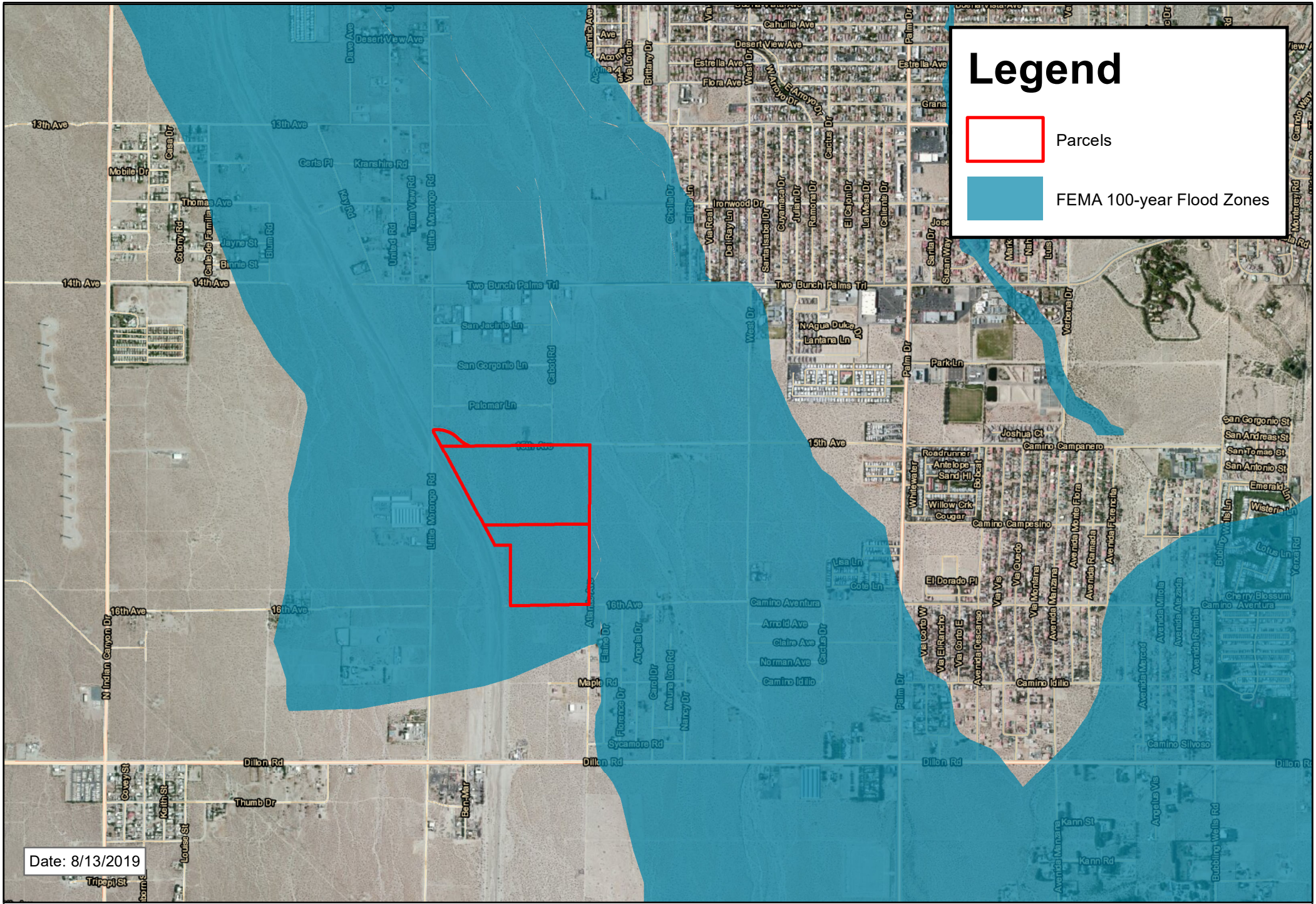
Altum Group- DHS Properties 109
Desert Hot Springs, CA



JERICHO SYSTEMS INCORPORATED

Figure 5
National Hydrography Dataset (NHD)
Blueline Streams, Waterbodies, & Wetlands

Altum Group- DHS Properties 109
Desert Hot Springs, CA

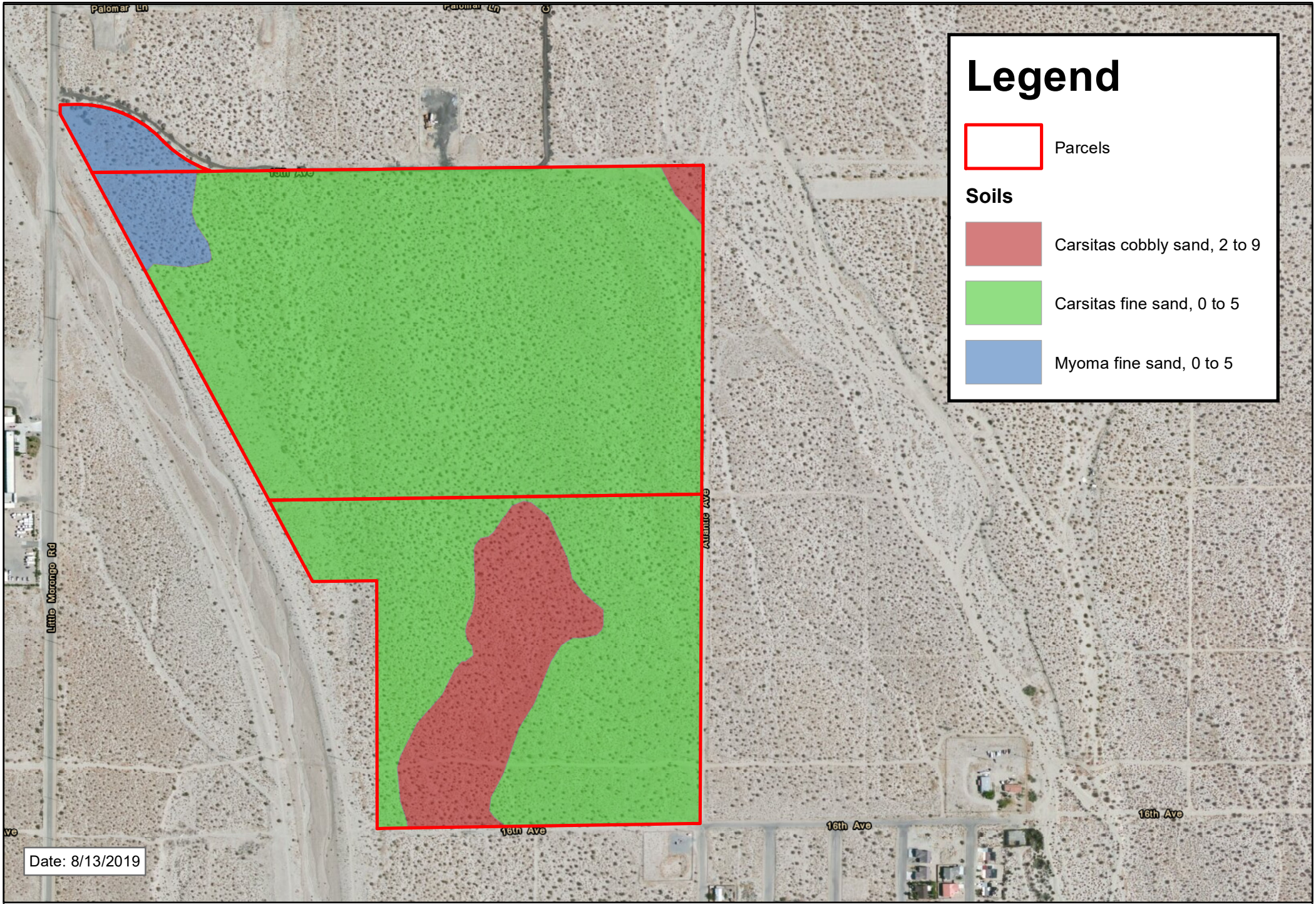


Imagery Date: 8/6/2017

Service Layer Credits: Esri, HERE, Garmin, (c) OpenStreetMap contributors
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

Figure 5
National Hydrography Dataset (NHD)
Blueline Streams, Waterbodies, & Wetlands

Altum Group- DHS Properties 109
Desert Hot Springs, CA



0 0.045 0.09 0.18 0.27 0.36 Miles

Imagery Date: 8/6/2017

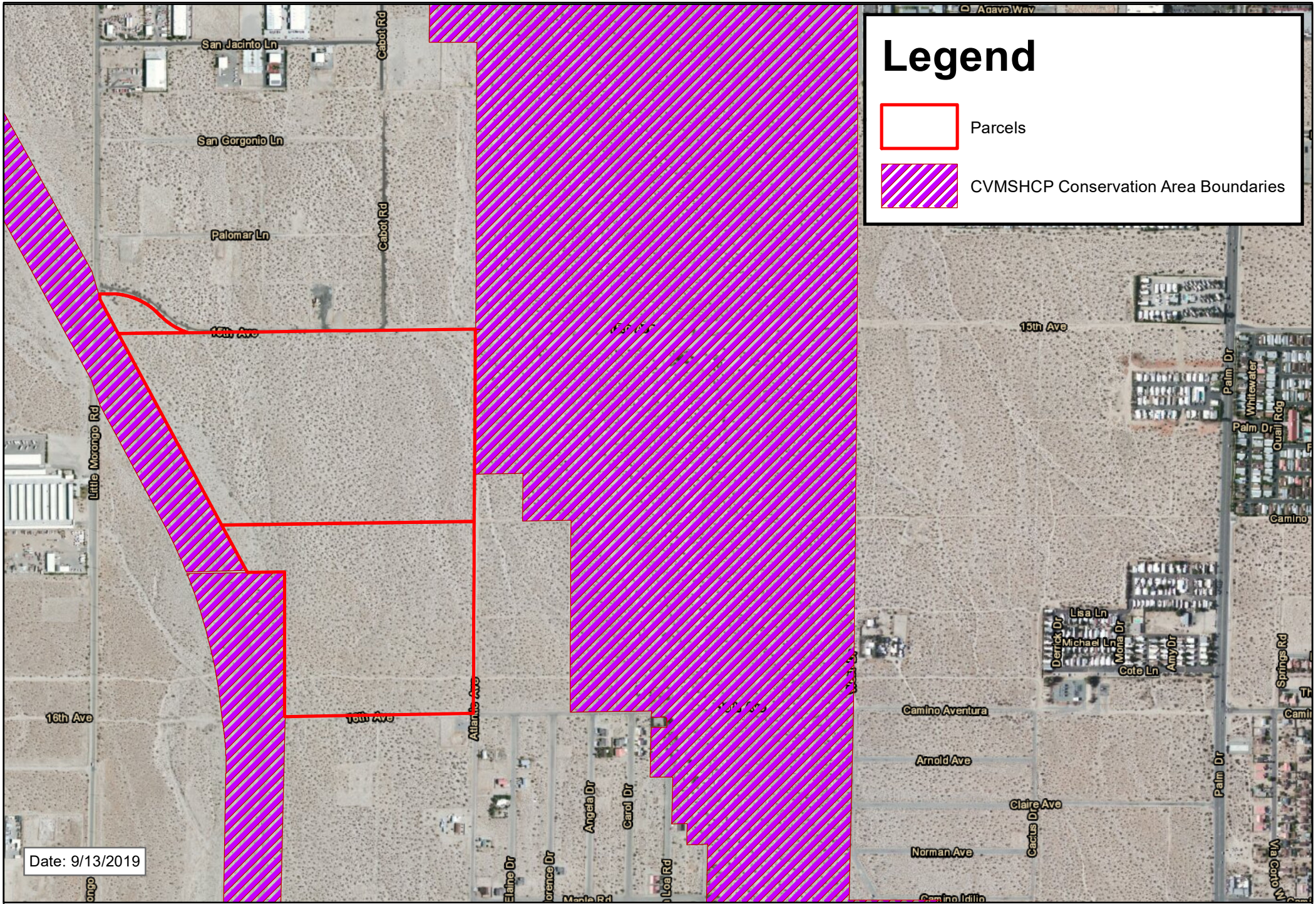
Service Layer Credits: Esri, HERE, Garmin, (c) OpenStreetMap contributors
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

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1 inch = 487 feet

Figure 7
Natural Resources Conservation Service (NRCS)
Soil Survey

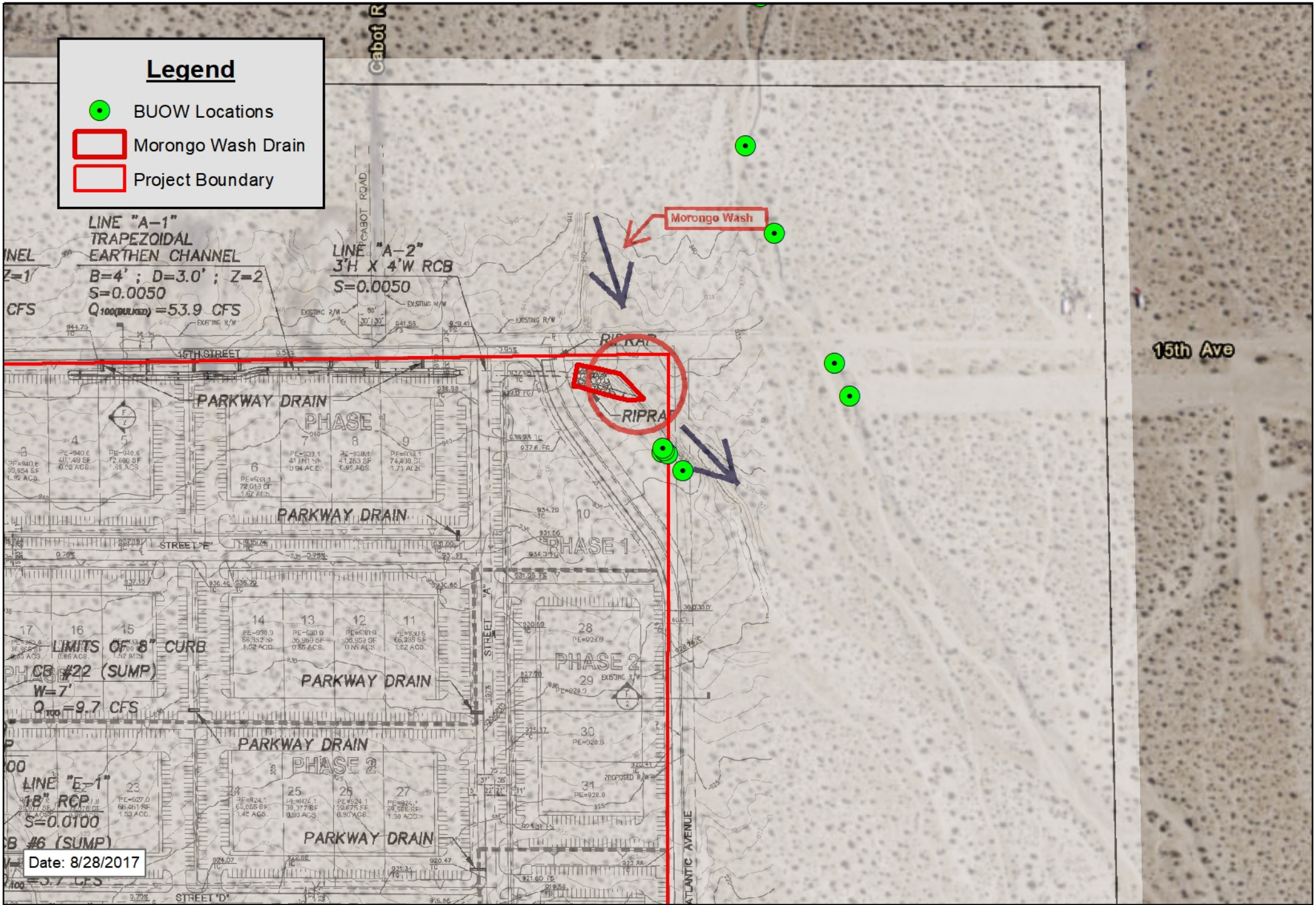
Altum Group- DHS Properties 109
Desert Hot Springs, CA



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Figure 8
CVMSHCP Conservation Areas

Altum Group- DHS Properties 109
Desert Hot Springs, CA



0 0.03 0.06 0.12 0.18 0.24 Miles

Imagery Date: 5-3-16

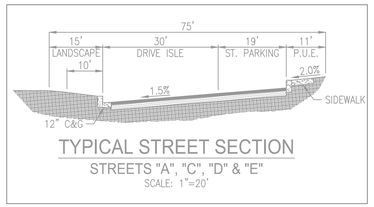
Service Layer Credits: Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

1 inch = 320 feet

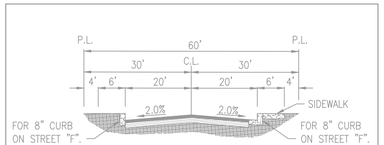
BUOW Locations

Desert Hot Springs 109 Sewer
Mission Springs Water District

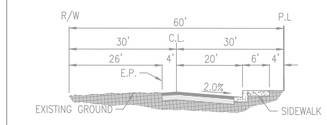
EXHIBIT F - TPM NO. 37235
PRELIMINARY DRAINAGE FACILITIES PLAN



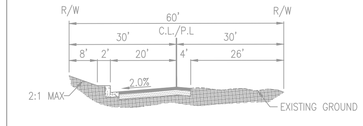
TYPICAL STREET SECTION
STREETS "A", "C", "D" & "E"
SCALE: 1"=20'



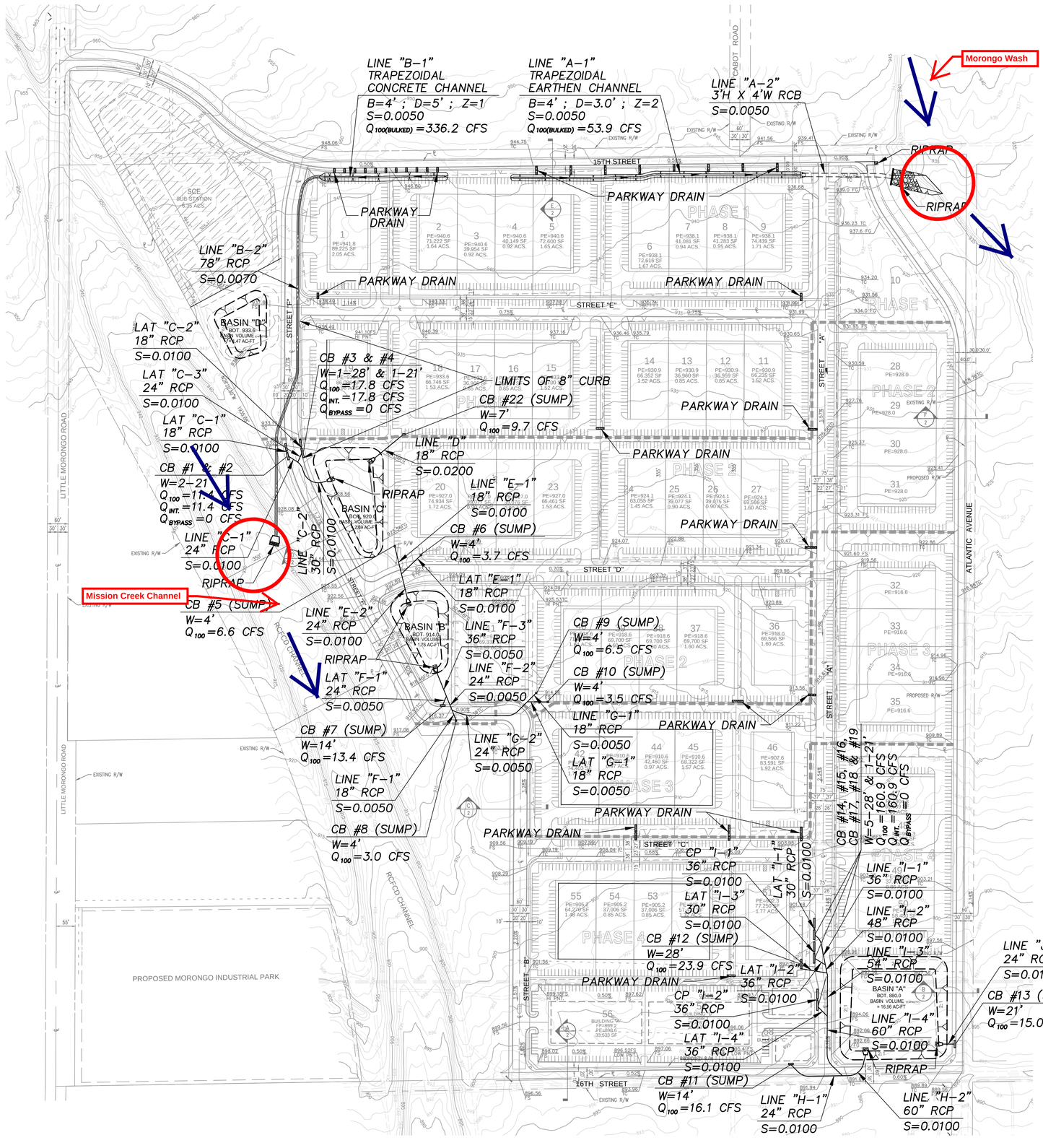
TYPICAL STREET SECTION
STREETS "B" & "F"
SCALE: 1"=20'



TYPICAL STREET SECTION
15TH & 16TH STREETS
SCALE: 1"=20'



TYPICAL STREET SECTION
ATLANTIC AVENUE
SCALE: 1"=20'



ACI
AGUILAR CONSULTING INC.
2155 CHICAGO AVENUE, SUITE 301
RIVERSIDE, CA 92507
PH. (951) 300-1431 FAX (951) 300-1435

ATTACHMENT C
SITE PHOTOS

	Photo 1.Mid site looking northwest.
	Photo 2. Mid site looking south east.

	Photo 3. Looking north along Mission Creek channel that borders the property to the west.
	Photo 4. Burrowing owl white wash at north east corner of site along wash.

Appendix D

Cultural Resource Survey

CRM TECH
1016 E. Cooley Drive, Suite A/B
Colton, CA 92324

June 14, 2018

Shaul Mezrahi
DHS 109 Properties, LLC
P.O. Box 2399
Rancho Mirage, CA 92270

Re: Update to Phase I Cultural Resources Survey
Tentative Parcel Map No. 32706; Assessor's Parcel Nos. 665-080-005 and -007
City of Desert Hot Springs, Riverside County, California
CRM TECH Project Numbers 1433/3345

Dear Shaul Mezrahi:

At your request, CRM TECH has completed a cultural resources records search, a historical background review, Native American consultation, and a field inspection on Tentative Parcel Map No. 32706 in the City of Desert Hot Springs, Riverside County, California. The subject property consists of approximately 108 acres of undeveloped land on the west side of Atlantic Avenue and between 15th Avenue and 16th Avenue, in the southwest quarter of Section 1, T3S R4E, San Bernardino Baseline and Meridian (Figs. 1, 2). This letter presents a summary of the methods, results, and final conclusions of these research procedures.

Background

As you know, the project area was previously included in a standard Phase I cultural resource survey completed by CRM TECH in 2004, which also covered additional land to the west of the current project area (Hogan et al. 2004; see Attachment A). The scope of that study also included a records search, historical background research, and a systematic field survey, but did not include consultation with Native American representatives.

The results of the study indicated that no "historical resources," as defined by the California Environmental Quality Act (CEQA), were present within the area surveyed (Hogan et al. 2004:9). Therefore, CRM TECH recommended to the City of Desert Hot Springs a finding of *No Impact* regarding cultural resources (*ibid.*:10). Because the 2004 study is now 14 years old, the research procedures implemented during this study are designed as an update to reexamine and confirm the findings.

Records Search

The records search for this study was conducted by CRM TECH archaeologist Nina Gallardo, B.A., on May 15, 2018, at the Eastern Information Center (EIC), University of California, Riverside. The results of the records search indicate that other than the 2004 CRM TECH survey (#6295 in Fig. 3) and two reconnaissance-level surveys completed prior to that in 1972 and 1982 (#71 and #1473 in Fig. 3), no additional cultural resources studies have occurred within the project area, although a linear survey for a power transmission line was completed along the southern and western project

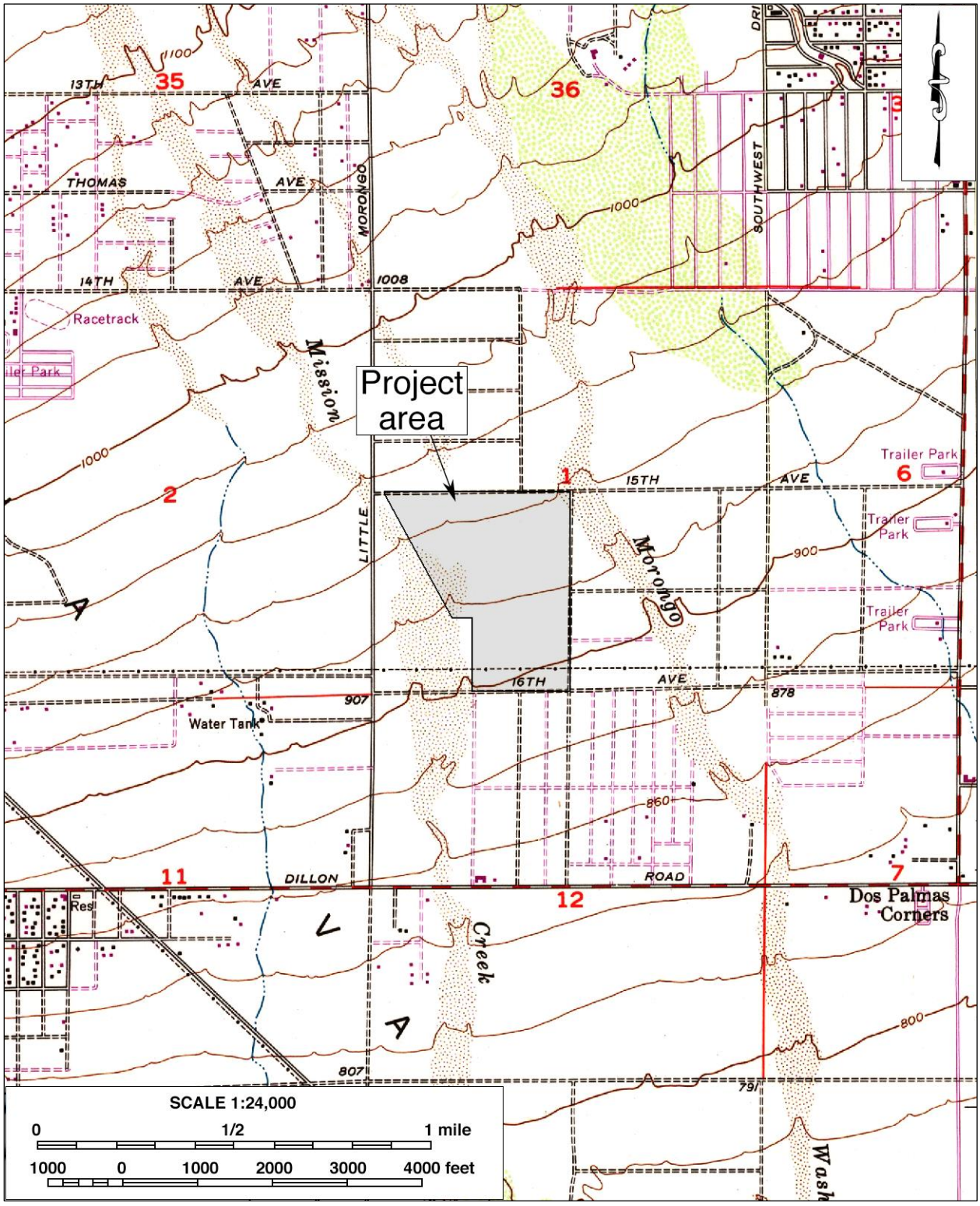


Figure 1. Location and configuration of the project area. (Based on USGS Desert Hot Springs, Calif., 7.5 quadrangle, 1978 edition)

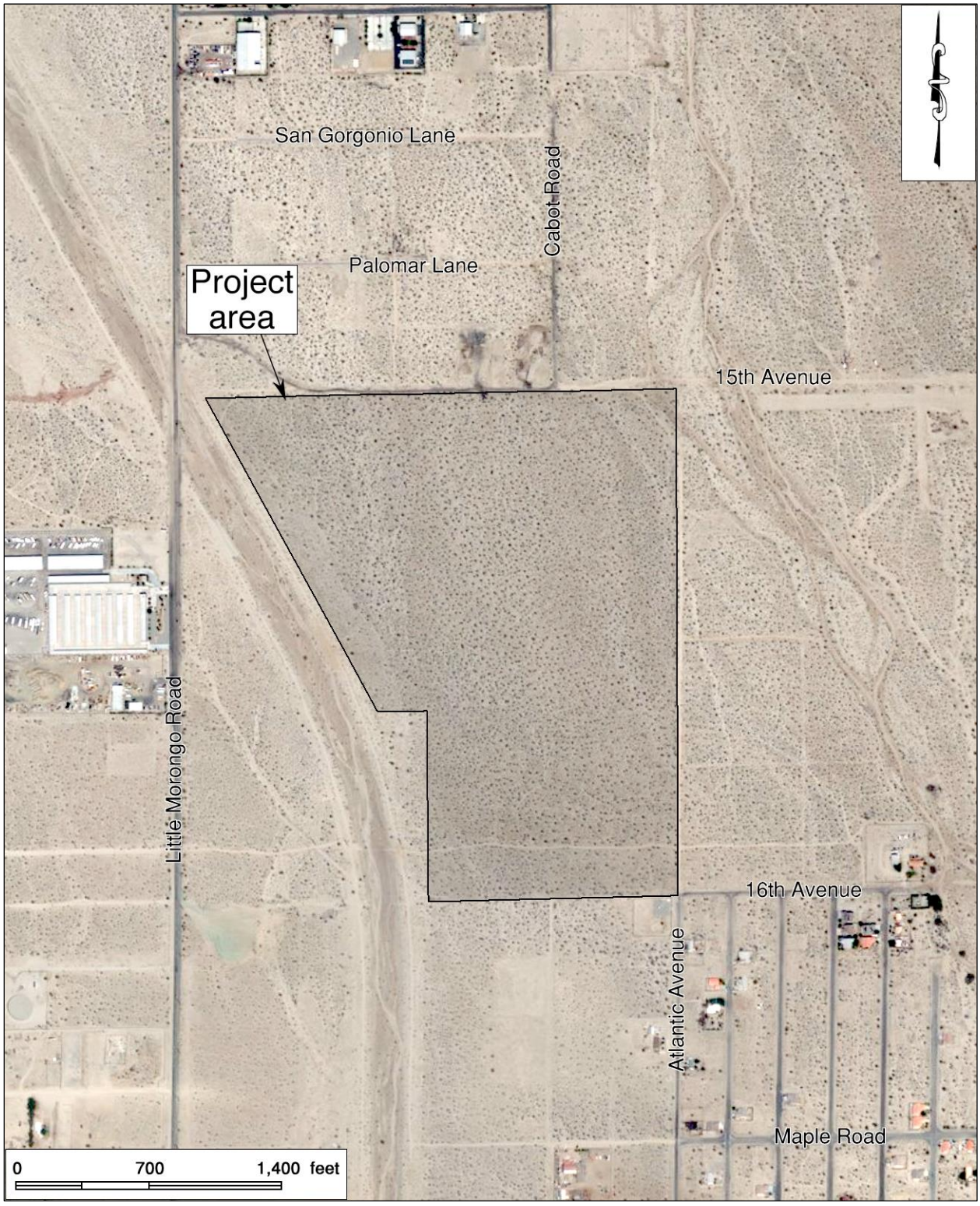


Figure 2. Aerial image of the project area. (Based on Google Earth imagery)

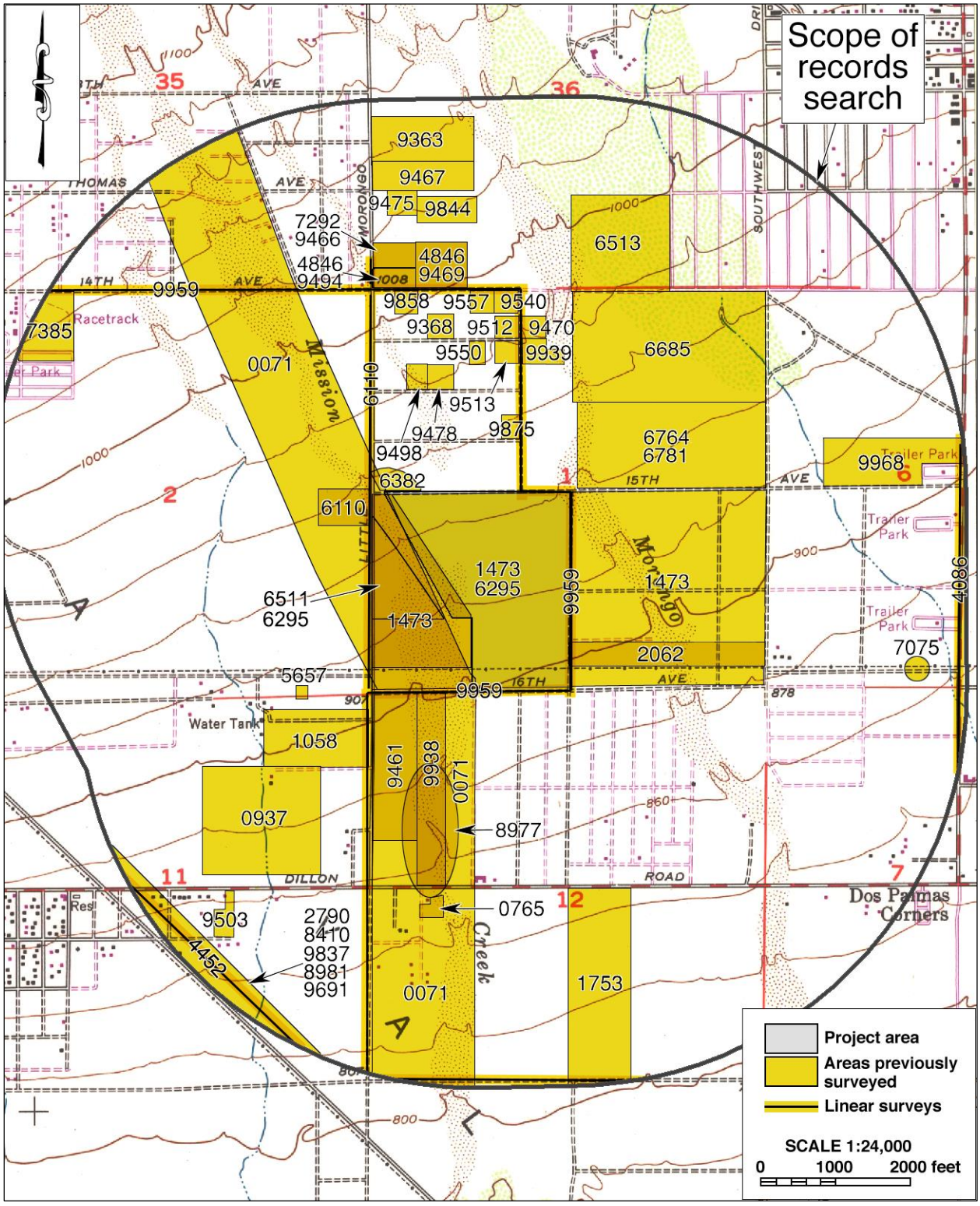


Figure 3. Previous cultural resources studies in the vicinity of the project area, listed by EIC file number. Locations of historical/archaeological sites are not shown as a protective measure.

boundaries in 2017 (#9959 in Fig. 3). No cultural resources have been recorded within or adjacent to the project area.

Outside the project area but within a one-mile radius, EIC records show that as of today more than 50 other cultural resources studies have been completed on various tracts of land and linear features, a dramatic increase from the seven previous studies noted in 2004 (Hogan et al. 2004:6). Seven additional archaeological sites and three isolates—i.e., localities with fewer than three artifacts—have been recorded into the California Historical Resources Inventory since 2004, bringing the total number of known cultural resources within the scope of the records search to 12, as listed below in Table 1.

Table 1. Previously Recorded Cultural Resources within the Scope of the Records Search

Primary #	Trinomial	Description
33-001808	CA-RIV-1808	Pottery scatter with 30+ buffware fragments, probably from the same vessel
33-008410	N/A	Dillon Road, ca. 1930s
33-013553	CA-RIV-7487H	Early 20th century refuse deposit
33-015964	CA-RIV-8283	A single mortar on a boulder located on disturbed alluvium
33-024248	CA-RIV-11907H	Early 20th century refuse deposit
33-026629	CA-RIV-12533H	Historic-period refuse scatter
33-026642	CA-RIV-12546H	Historic-period refuse scatter
33-026643	CA-RIV-12547H	Historic-period refuse scatter
33-026684	CA-RIV-12575H	Historic-period refuse scatter
33-026869	N/A	Isolate: matchstick filler vent-hole can
33-026870	N/A	Isolate: matchstick filler vent-hole can
33-026871	N/A	Isolate: all-steel flat top beverage can

As Table 1 shows, two of the archaeological sites were of prehistoric—i.e., Native American—origin, consisting of a bedrock milling feature and a ceramic scatter. Both of the sites were located nearly a mile away, to the northwest and the southwest of the project location. The other 10 known cultural resources, including seven of the sites and all three isolates, dated to the historic period. One of the sites represents Dillon Road, which was originally built by the Metropolitan Water District of Southern California (MWD) during the construction of the Colorado River Aqueduct in the 1930s. All of the other sites and isolates consisted of refuse deposits, the nearest one being a few hundred feet north of the project location. Since none of these 12 cultural resources was found in the immediate vicinity of the project area, none of them requires further consideration during this study.

Historic Background Review

Historical background research for this study was conducted by CRM TECH principal investigator/ historian Bai "Tom" Tang, M.A. In addition to the sources consulted during the 2004 study, such as historic maps and published literature in local history, aerial photographs that have become available since 2004 were also examined for further information. Taken between 1972 and 2018, the aerial photographs are available at the NETR Online website and through the Google Earth software.

As stated in the 2004 report, the project area remained vacant and undeveloped throughout the historic period (Hogan et al. 2004:6). Besides the various dirt roads along the project boundaries, another dirt road was shown to extend across the southernmost portion of the property in an east-west direction at least by 1972, following the course of a power transmission line that was known to

be present by the 1950s (USGS 1957; NETR Online 1972). To the present time, the power line and the accompanying road have remained the only notable man-made features within the project area (NETR Online 1972-2014; Google Earth 1996-2018).

According to historical sources, the power line across the project area was originally constructed in 1932-1933 by the MWD in preparation for the Colorado River Aqueduct project (Binney 1938; MWD 1939:32-33). Running a total distance of 196 miles, the 66-kv transmission line delivered electric power from a Southern California Edison (SCE) substation in Colton to MWD construction sites along the aqueduct route through a 33-kv distribution network totaling 290 miles (*ibid.*). The main line was built of No. 4/0 copper cable strung on suspension insulators and wood-pole H-frame or wishbone structures (MWD 1939:44).

Field Inspection

On June 7, 2018, CRM TECH archaeologist Daniel Ballester, M.S., conducted a reconnaissance-level field survey of the project area. The survey was completed by walking the perimeter of the entire project area as well as a series of parallel east-west transects at 50- to 100-meter (approximately 165- to 330-foot) intervals. The purpose of the field reconnaissance was to confirm and update the field observations from 2004. Ground visibility at the time of this survey was good to excellent (80%-100%) due to the sparsity of the vegetative cover (Fig. 4).

During the field survey, a power transmission line was observed along the course of the 1930s MWD main line, accompanied by a narrow, nondescript dirt access road that demonstrates no distinctively historical character. Evidently an active component of the SCE's local distribution system, the transmission line in existence today features wooden poles that appear to be of modern



Figure 4. Current condition of the project area. (Photograph taken June 7, 2018; view to the northwest from the southeastern corner of the property)

origin. Instead of H-frame or wishbone structures with suspension insulators, the poles in and near the project area carry unbraced up-swept arms with pin-mounted insulators (Fig. 4).

Since none of its physical features was found to be of historical origin, the existing power line was determined to be a modern replacement of the original MWD line and was thus not recorded as a potential "historical resource." No other remnants of human activities dating to the prehistoric or historic period were encountered throughout the field survey. Scattered modern refuse was observed on the property, especially along the project boundaries, but none of the items is of any historical or archaeological interest.

Native American Consultation

On May 10, 2018, CRM TECH requested a Sacred Lands File records search from the State of California Native American Heritage Commission (NAHC; see Attachment B). In the meantime, CRM TECH notified the nearby Agua Caliente Band of Cahuilla Indians of the upcoming archaeological fieldwork and invited tribal participation (see Attachment B). In a reply dated May 11, the NAHC reports that the Sacred Lands File identifies no Native American cultural resources in the project area but recommends that local Native American groups be contacted for further information. For that purpose, the NAHC provided a list of potential contacts in the region (see Attachment B).

Following the NAHC's recommendations and previously established consultation protocol, on May 18, 2018, CRM TECH sent written requests for comments to representatives of all 12 tribes of Cahuilla and/or Serrano heritage in the surrounding region as well as the Twenty-Nine Palms Band of Mission Indians, whose reservation is located partially in the Coachella Valley (see Attachment B). In all, 11 of the 34 individuals on the NAHC's referral list were contacted, the rest of them being representatives of Kumeyaay, Kitanemuk, and Tataviam tribes in San Diego and Los Angeles Counties. In addition to or in lieu of some of the individuals recommended by the NAHC, CRM TECH contacted the following designated spokespersons for the tribes on cultural resources issues, as recommended by the tribal government staff:

- Judy Stapp, Director of Cultural Affairs, Cabazon Band of Mission Indians;
- Bobby Ray Esparza, Interim Cultural Director, Cahuilla Band of Indians;
- Raymond Huaute, Tribal Historic Preservation Officer, Morongo Band of Mission Indians;
- Jessica Mauck, Cultural Resources Analyst, San Manuel Band of Mission Indians;
- Gabriella Rubalcava, Environmental Director, Santa Rosa Band of Cahuilla Indians.

As of this time, five tribal representatives have responded in writing (see Attachment B). Among them, Jessica Mauck of the San Manuel Band indicated that the project area was located outside the tribe's ancestral territory. Therefore, the San Manuel Band declined to participate in further consultation regarding this project. Raymond Huaute of the Morongo Band identified the project location as a part of the tribe's traditional use area and requested a copy of this report for tribal review.

Judy Stapp of the Cabazon Band, Bobby Ray Esparza of the Cahuilla Band, and Victoria Martin, Tribal Secretary for the Augustine Band of Cahuilla Indians, stated that their tribes had no

information on any Native American cultural resources in the project area. However, Ms. Martin suggested archaeological or Native American monitoring during ground-disturbing activities associated with the project, encouraged further consultation with other tribes in the project vicinity, and requested immediate notification of any Native American cultural resource discoveries during the project, while Mr. Esparza requested to be kept informed of further development of the project.

Conclusion and Recommendations

Based on the research results summarized above, CRM TECH concludes that the original finding of the 2004 study—that the proposed development of the property will not cause a substantial adverse change to any known "historical resources" (Hogan et al. 2004:10)—remains valid and appropriate. Accordingly, CRM TECH reiterates the 2004 recommendations to the City of Desert Hot Springs:

- No further cultural resources investigation will be necessary for the proposed project unless development plans undergo such changes as to include areas not covered by the 2004 study and the current study.
- If buried cultural materials are discovered during any earth-moving operations associated with the project, all work in that area should be halted or diverted until a qualified archaeologist can evaluate the nature and significance of the finds.

Thank you for this opportunity to be of service. If you have any questions or need further information regarding this study, please do not hesitate to contact our office.

Sincerely,

Bai "Tom" Tang, M.A.
Principal, CRM TECH

References Cited:

Binney, J.O.
1938 Construction Power and Communications: Planning and Building the Construction Power and Communication Systems. In *The Great Aqueduct: The Story of the Planning and Building of the Colorado River Aqueduct*, compiled by the Metropolitan Water District of Southern California; p. 25. Metropolitan Water District of Southern California, Los Angeles, 1941.

Hogan, Mike, Bai "Tom" Tang, and Matthew Wetherbee
2004 Historical/Archaeological Resources Survey Report: Tentative Parcel Map Numbers 32705 and 32706, City of Desert Hot Springs, Riverside County, California. On file, Eastern Information Center, University of California, Riverside. (See Attachment A)

Google Earth
1996-2018 Aerial photographs of the project vicinity; taken in 1996, 2002-2006, 2009, and 2011-2018. Available through the Google Earth software.

MWD (Metropolitan Water District of Southern California)
1939 *Colorado River Aqueduct*; fourth edition. Metropolitan Water District of Southern California, Los Angeles.

NETR Online
1972-2012 Aerial photographs of the project vicinity; taken in 1972, 1996, 2002, 2005, 2009, 2010, 2012, and 2014. http://www.historicaerials.com.
USGS (United States Geological Survey, U.S. Department of the Interior)
1957 Map: Palm Springs, Calif. (15', 1:62,500); aerial photographs taken in 1951-1956, field-checked in 1955-1957.

ATTACHMENT A

2004 PHASE I CULTURAL RESOURCES STUDY

HISTORICAL/ARCHAEOLOGICAL RESOURCES SURVEY REPORT

TENTATIVE PARCEL MAP NUMBERS 32705 AND 32706

In the City of Desert Hot Springs
Riverside County, California

Submitted to:

Robert J. Mainiero, P.E.
P.O. Box 2410
596 North Farrel Drive
Palm Springs, CA 92263

Submitted by:

Michael Hogan, Principal Investigator
Bai "Tom" Tang, Principal Investigator
Matthew Wetherbee, Archaeologist/Report Writer
CRM TECH
4472 Orange Street
Riverside, CA 92501

October 7, 2004

CRM TECH Contract #1433
Approximately 115 Acres
APNs 665-080-005, -006, -007, and -008
USGS Desert Hot Springs, Calif., 7.5' Quadrangle
Section 1, T3S R4E, San Bernardino Base Meridian

MANAGEMENT SUMMARY

In September, 2004, at the request of Robert J. Mainiero, P.E., CRM TECH performed a cultural resources study on approximately 115 acres of vacant land in the City of Desert Hot Springs, Riverside County, California. The subject property of the study includes Tentative Parcel Map Nos. 32705 and 32706, which encompass four existing parcels, APNs 665-080-005 to -008. It is located on the east side of Little Morongo Road and between Avenue 15 and Avenue 16, in the southwest quarter of Section 1, T3S R4E, San Bernardino Base Meridian. The study is part of the environmental review process for the proposed subdivision of the property for light industrial use. The City of Desert Hot Springs, as Lead Agency for the project, required the study in compliance with the California Environmental Quality Act (CEQA).

The purpose of the study is to provide the City of Desert Hot Springs with the necessary information and analysis to determine whether the proposed project would cause substantial adverse changes to any historical/ archaeological resources that may exist in or around the project area, as mandated by CEQA. In order to identify and evaluate such resources, CRM TECH conducted a historical/archaeological resources records search, pursued historical background research, and carried out an intensive-level field survey.

Through the various avenues of research, this study did not encounter any "historical resources," as defined by CEQA, within or adjacent to the project area. Therefore, CRM TECH recommends to the City of Desert Hot Springs a finding of *No Impact* regarding cultural resources. No further cultural resources investigation is recommended for the project unless development plans undergo such changes as to include areas not covered by this study. However, if buried cultural materials are encountered during any earth-moving operations associated with the project, all work in that area should be halted or diverted until a qualified archaeologist can evaluate the nature and significance of the finds.

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INTRODUCTION

In September, 2004, at the request of Robert J. Mainiero, P.E., CRM TECH performed a cultural resources study on approximately 115 acres of vacant land in the City of Desert Hot Springs, Riverside County, California (Fig. 1). The subject property of the study includes Tentative Parcel Map Nos. 32705 and 32706, which encompass four existing parcels, APNs 665-080-005 to -008. It is located on the east side of Little Morongo Road and between Avenue 15 and Avenue 16, in the southwest quarter of Section 1, T3S R4E, San Bernardino Base Meridian (Fig. 2). The study is part of the environmental review process for the proposed subdivision of the property for light industrial use. The City of Desert Hot Springs, as Lead Agency for the project, required the study in compliance with the California Environmental Quality Act (CEQA; PRC §21000, et seq.).

CRM TECH performed the present study to provide the City of Desert Hot Springs with the necessary information and analysis to determine whether the proposed project would cause substantial adverse changes to any historical/archaeological resources that may exist in or around the project area, as mandated by CEQA. In order to identify and evaluate such resources, CRM TECH conducted a historical/archaeological resources records search, pursued historical background research, and carried out an intensive-level field survey. The following report is a complete account of the methods, results, and final conclusion of the study.

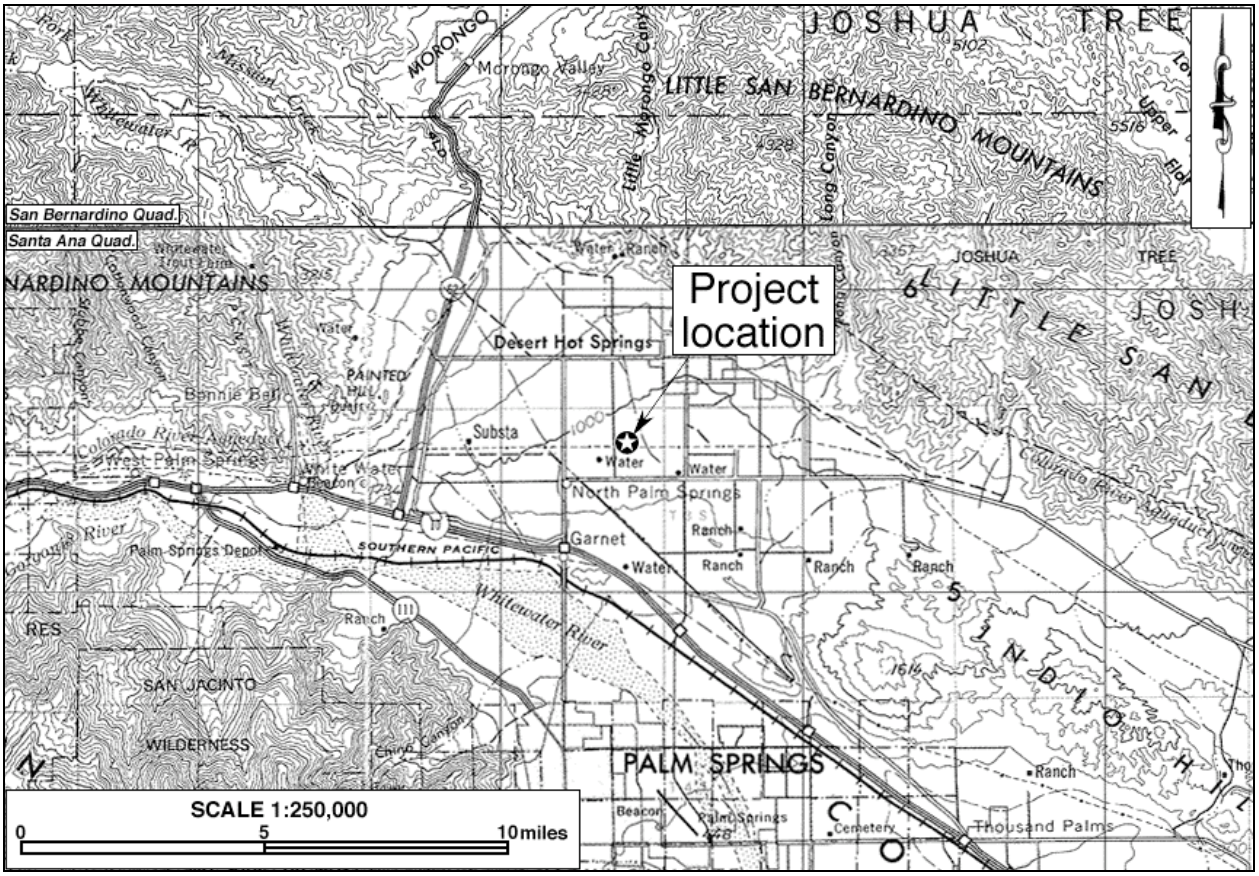


Figure 1. Project vicinity. (Based on USGS San Bernardino and Santa Ana, Calif., 1:250,000 quadrangles [USGS 1969; 1979])

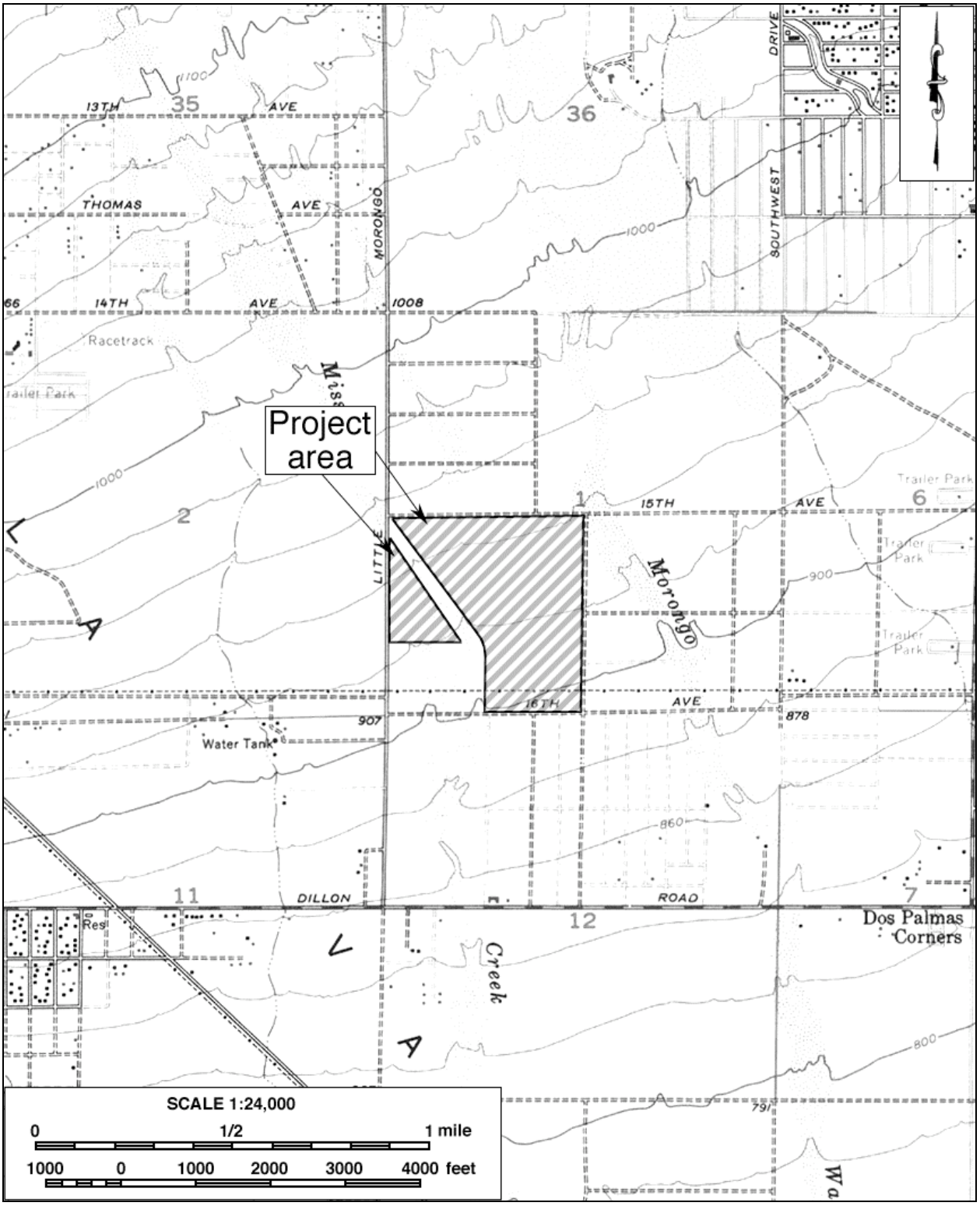


Figure 2. Project area. (Based on USGS Desert Hot Springs, Calif., 1:24,000 quadrangle [USGS 1978])

SETTING

CURRENT NATURAL SETTING

The project area is situated in the Coachella Valley, a northwest-southeast trending desert valley that constitutes the western end of the Colorado Desert. Dictated by this geographic setting, the climate and environment of the project area and its surrounding region are typical of southern California's desert country, marked by extremes in temperature and aridity. Temperatures in the region reach over 120 degrees in summer, and dip to near freezing in winter. Average annual precipitation is less than five inches, and average annual evaporation rate exceeds three feet.

More specifically, the project area is situated on vacant land with the Mission Creek traversing through the property in a northwest-southeast direction separating the two Tentative Parcel Maps. The terrain is relatively level, with elevations increasing slightly from approximately 900 feet above mean sea level on the southern edge to 950 feet at the northwest corner. The project area is bounded on the north and south by Avenue 15 and Avenue 16 and on the east and west by Atlantic Boulevard and Little Morongo Road, respectively, and is surrounded mostly by undeveloped land. The soil on the subject property is composed of light-gray, coarse-grained sand, with a mixture of approximately 25% pea-sized pebbles. The soil is poorly sorted and loosely compacted, and also contains scattered rocks ranging from pebble to cobble size. Vegetation on the property consists of creosote, ephedra, cholla cactus, indigo bush, brittle bush, sand paper plant, and other scattered desert grasses. The project area is littered modern trash and pieces of concrete.



Figure 3. Overview of the current natural setting of the project area. (Photo taken on September 15, 2004; view to the east)

CULTURAL SETTING

Ethnohistoric Context

The Coachella Valley is a historical center of Native American settlement, where U.S. surveyors noted large numbers of Indian villages and *rancherías*, occupied by the Cahuilla people, in the mid-19th century. The Cahuilla, a Takic-speaking people of hunters and gatherers, are generally divided by anthropologists into three groups, according to their geographic setting: the Pass Cahuilla of the San Gorgonio Pass-Palm Springs area, the Mountain Cahuilla of the San Jacinto and Santa Rosa Mountains and the Cahuilla Valley, and the Desert Cahuilla of the eastern Coachella Valley.

The Cahuilla did not have a single name that referred to an all-inclusive tribal affiliation. Instead, membership was in terms of lineages or clans. Each lineage or clan belonged to one of two main divisions of the people, known as moieties. Members of clans in one moiety had to marry into clans from the other moiety. Individual clans had villages, or central places, and territories they called their own, for purposes of hunting game, gathering food, or utilizing other necessary resources. They interacted with other clans through trade, intermarriage, and ceremonies.

Population data prior to European contact are almost impossible to obtain, but estimates range from 3,600 to as high as 10,000 persons. During the 19th century, however, the Cahuilla population was decimated as a result of European diseases, most notably smallpox, for which the Native peoples had no immunity. Today, Native Americans of Pass or Desert Cahuilla heritage are mostly affiliated with one or more of the Indian reservations in and near the Coachella Valley, including Torres Martinez, Augustine, Agua Caliente, Cabazon, and Morongo.

Historic Context

In 1823-1825, José Romero, José Maria Estudillo, and Romualdo Pacheco, leading a series of expeditions in search of a route to Yuma, became the first noted European explorers to travel through the Coachella Valley. However, due to its harsh environment, few non-Indians ventured into the desert valley during the Mexican and early American periods, except those who traveled across it along the established trails. The most important among these trails was the Cocomaricopa Trail, an ancient Indian trading route that was "discovered" in 1862 by William David Bradshaw and became known after that as the Bradshaw Trail. In much of the Coachella Valley, this historic wagon road traversed a similar course to that of present-day Highway 111. During the 1860s-1870s, the Bradshaw Trail served as the main thoroughfare between coastal southern California and the Colorado River, until the completion of the Southern Pacific Railroad in 1876-1877 brought an end to its heyday.

Non-Indian settlement in the Coachella Valley began in the 1870s, with the establishment of railroad stations along the Southern Pacific Railroad, and spread further in the 1880s, after public land was opened for claims under the Homestead Act, the Desert Land Act, and other federal land laws. Farming became the dominant economic activity in the valley, thanks to the development of underground water sources, often in the form of artesian wells. But it was not until the completion of the Coachella Canal in 1948-1949 that farmers

in the arid region obtained an adequate and reliable water supply. The main agricultural staple in the Coachella Valley, the date palm, was first introduced around the turn of the century. By the late 1910s, the date palm industry had firmly established itself, giving the region its celebrated image of "the Arabia of America." Starting in the 1920s, a new industry, featuring equestrian camps, resort hotels, and eventually country clubs, gradually spread throughout the Coachella Valley, and since then transformed it into southern California's leading winter retreat.

The present-day City of Desert Hot Springs is among the communities that were largely created by the Coachella Valley's resort industry. Although sporadic settlement took place in the vicinity as early as 1908, the city owes much of its early development to the abundance of hot mineral water along the San Andreas fault line. J. W. Coffey, who subdivided the Desert Hot Springs townsite in 1933, is also credited with first tapping into the hot mineral water for commercial use by drilling a 300-foot well (Gunther 1984:151). Advertised in the early and mid-20th century primarily for its potential for health spas and convalescent homes, Desert Hot Springs saw sufficient growth by 1944 to warrant the establishment of a post office. After a further growth spurt during the post-WWII boom, Desert Hot Springs incorporated as a city in 1963.

RESEARCH METHODS

RECORDS SEARCH

On September 14, 2004, CRM TECH archaeologist Adrián Sánchez Moreno (see App. 1 for qualifications) conducted the historical/archaeological resources records search at the Eastern Information Center (EIC), University of California, Riverside. During the records search, Moreno examined maps and records on file at the EIC for previously identified cultural resources in or near the project area, and existing cultural resources reports pertaining to the vicinity. Previously identified cultural resources include properties designated as California Historical Landmarks, Points of Historical Interest, or Riverside County Landmarks, as well as those listed in the National Register of Historic Places, the California Register of Historical Resources, or the California Historical Resource Information System.

HISTORICAL RESEARCH

Historical background research for this study was conducted by CRM TECH historian Bai "Tom" Tang (see App. 1 for qualifications) on the basis of published literature in local and regional history and historic maps depicting the project vicinity. Among maps consulted for this study were the U.S. General Land Office's (GLO) land survey plat maps dated 1856 and the U.S. Geological Survey's (USGS) topographic maps dated 1901, 1940-1941, and 1957-1958. These maps are collected at the Science Library of the University of California, Riverside, and the California Desert District of the U.S. Bureau of Land Management, located in Moreno Valley.

FIELD SURVEY

On September 15, 2004, CRM TECH archaeologists Thomas J. Melzer and Michelle Bunn (see App. 1 for qualifications) carried out the intensive-level, on-foot field survey of the project area. During the survey, Melzer and Bunn walked parallel north-south transects

spaced 15 meters (ca. 50 feet) apart. In this way, the ground surface in the entire project area was systematically and carefully examined for any evidence of human activities dating to the prehistoric or historic periods (i.e., 50 years ago or older). Ground visibility throughout the project area was excellent (90-100%). The results of the survey are discussed below.

RESULTS AND FINDINGS

RECORDS SEARCH RESULTS

According to records on file at the Eastern Information Center, the project area was apparently covered by two reconnaissance level surveys completed in 1972 and in 1982, respectively (Fig. 4), but no cultural resources were recorded on or adjacent to the property during those surveys. Outside the project boundaries but within a one-mile radius, EIC records show at least seven other previous cultural resources studies covering various tracts of land and linear features. As a result of these surveys, two archaeological sites, one prehistoric—i.e., Native American—and one from the historic period, were identified and recorded within the scope of the records search. The historic-period site, located just southwest of the project area, consisted of a residence and barn originally known as Walker Ranch, which dates to 1915. The prehistoric site, located further southwest consisted of a ceramic scatter of presumably the Salton Buff type. Neither of these previously recorded sites was located in the immediate vicinity of the project area, and thus neither of them requires further consideration during this study. Because the project area was surveyed more than 10 years ago at a reconnaissance level, it was necessary to re-survey the area for cultural resources again at an intensive level.

HISTORICAL RESEARCH RESULTS

Historic maps consulted for this study indicate that no man-made features of any kind were noted within or adjacent to the project area throughout the 19th century (Figs. 5, 6), reflecting the "late booming" of the Desert Hot Springs area. In 1897-1898, the only permanent evidences of human activities in the vicinity were a few roads, none of which traversed within a mile of the project location, and the Southern Pacific Railroad, some three miles to the south (Fig. 6). By 1940-1941, with the creation of the town of Desert Hot Springs nearby a few years before, a few scattered buildings had appeared in the vicinity, and the precursor to Little Morongo Road had emerged along the western boundary of the project area (Fig. 7). Between 1940 and the 1950s, Desert Hot Springs and the Coachella Valley experienced a significant growth spurt, but the land within the project boundaries was evidently vacant and undeveloped as late as 1958 (Figs. 8), and has remained so to the present time.

FIELD SURVEY RESULTS

The intensive-level field survey produced completely negative results for potential cultural resources. The entire project area was closely inspected for any evidence of human activities dating to the prehistoric or historic periods, but none was found. No buildings, structures, objects, sites, features, or artifacts more than 50 years of age were encountered during the field survey.

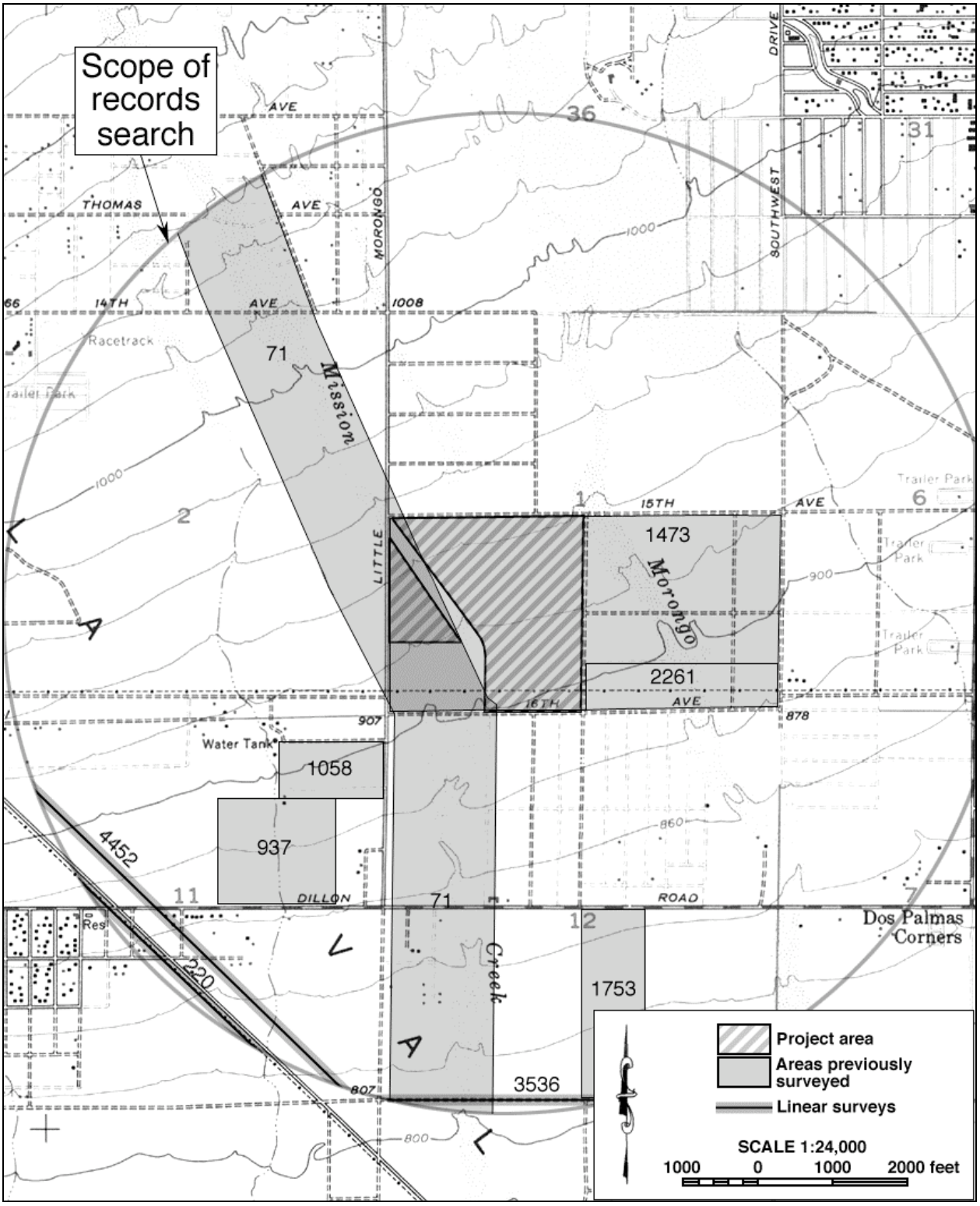


Figure 4. Previous cultural resources studies in the vicinity of the project area, listed by EIC file number. Locations of historical/archaeological sites are not shown as a protective measure.

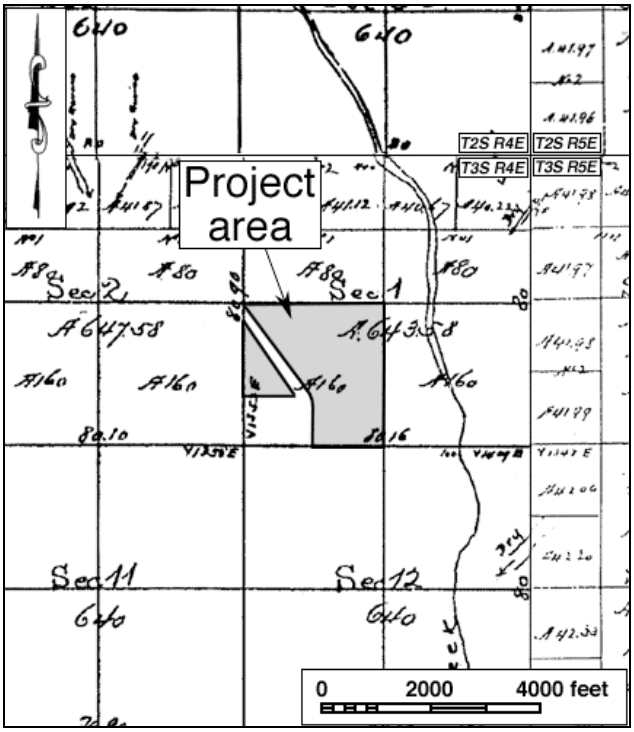


Figure 5. The project area and vicinity in 1855-1856. (Source: GLO 1856a-d)

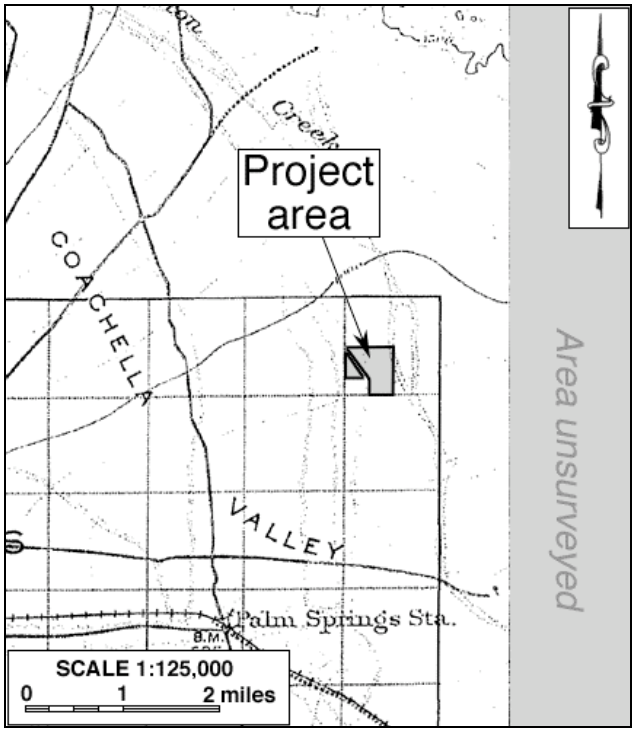


Figure 6. The project area and vicinity in 1897-1898. (Source: USGS 1901)

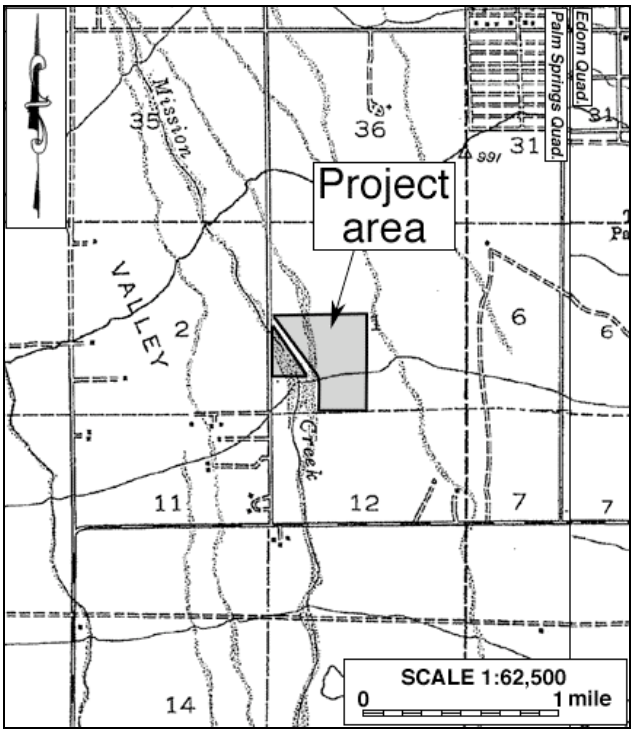


Figure 7. The project area and vicinity in 1940-1941. (Source: USGS 1940; 1941)

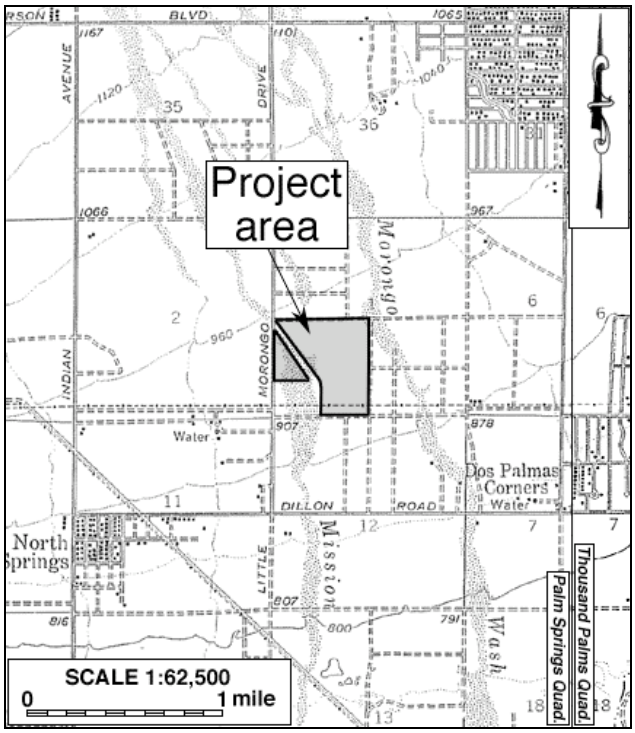


Figure 8. The project area and vicinity in 1951-1958. (Source: USGS 1957; 1958)

DISCUSSION

The purpose of this study is to identify any cultural resources within or adjacent to the project area, and to assist the City of Desert Hot Springs in determining whether such resources meet the official definitions of "historical resources," as provided in the California Public Resources Code, in particular CEQA.

According to PRC §5020.1(j), "'historical resource' includes, but is not limited to, any object, building, site, area, place, record, or manuscript which is historically or archaeologically significant, or is significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California." More specifically, CEQA guidelines state that the term "historical resources" applies to any such resources listed in or determined to be eligible for listing in the California Register of Historical Resources, included in a local register of historical resources, or determined to be historically significant by the Lead Agency (Title 14 CCR §15064.5(a)(1)-(3)).

Regarding the proper criteria for the evaluation of historical significance, CEQA guidelines mandate that "a resource shall be considered by the lead agency to be 'historically significant' if the resource meets the criteria for listing on the California Register of Historical Resources" (Title 14 CCR §15064.5(a)(3)). A resource may be listed in the California Register if it meets any of the following criteria:

(1) Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.
(2) Is associated with the lives of persons important in our past.
(3) Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values.
(4) Has yielded, or may be likely to yield, information important in prehistory or history. (PRC §5024.1(c))

As discussed above, the records search, the historical research, and the field survey have all produced negative results, and no buildings, structures, objects, sites, features, or artifacts more than 50 years of age were encountered in the project area. Based on these findings, and in light of the criteria listed above, this study concludes that *no historical resources exist within or adjacent to the project area*.

RECOMMENDATIONS

CEQA establishes that "a project that may cause a substantial adverse change in the significance of a historical resource is a project that may have a significant effect on the environment" (PRC §21084.1). "Substantial adverse change," according to PRC §5020.1(q), "means demolition, destruction, relocation, or alteration such that the significance of a historical resource would be impaired."

Since no historical resources were encountered during the course of this study, CRM TECH presents the following recommendations to the City of Desert Hot Springs:

- No historical resources exist within or adjacent to the project area, and thus the project as currently proposed will cause no substantial adverse change to any known historical resources.
- No further cultural resources investigation is necessary for the proposed project unless development plans undergo such changes as to include areas not covered by this study.
- If buried cultural materials are discovered during any earth-moving operations associated with the project, all work in that area should be halted or diverted until a qualified archaeologist can evaluate the nature and significance of the finds.

CONCLUSION

The foregoing report has provided background information on the project area, outlined the methods used in the current study, and presented the results of the various avenues of research. Throughout the course of the study, no "historical resources," as defined by CEQA, were encountered within or adjacent to the project area. Therefore, the City of Desert Hot Springs may reach a finding of *No Impact* regarding cultural resources, with the condition that any buried cultural materials unearthed during earth-moving activities be examined and evaluated by a qualified archaeologist prior to further disturbances.

REFERENCES

GLO (General Land Office, U.S. Department of the Interior)

1856a Plat Map: Township No. 2 South Range No IV East, San Bernardino Meridian; surveyed in 1855 and 1856.

1856b Plat Map: Township No. II South Range No. V East, San Bernardino Meridian; surveyed in 1855 and 1856.

1856c Plat map: Township No. III South Range No. IV East of the San Bernardino Meridian; surveyed in 1855-1856.

1856d Plat map: Township No. III South Range No. V East of the San Bernardino Meridian; surveyed in 1855-1856

Gunther, Jane Davies

1984 *Riverside County, California, Place Names: Their Origins and Their Stories*. Jane Davies Gunther, Riverside.

USGS (United States Geological Survey, U.S. Department of the Interior)

1901 Map: San Jacinto, Calif. (30', 1:125,000); surveyed in 1897-1898.

1940 Map: Palm Springs, Calif. (15', 1:62,500); aerial photographs taken in 1940.

1941 Map: Edom, Calif. (15', 1:62,500); aerial photographs taken in 1941.

1957 Map: Palm Springs, Calif. (15', 1:62,500); aerial photographs taken in 1951-1956, field-checked in 1955-1957.

1958 Map: Thousand Palms, California (15', 1:62,500); aerial photographs taken in 1951 and 1956, field-checked in 1958.

1969 Map: San Bernardino, Calif. (1:250,000); 1958 edition revised.

1978 Map: Desert Hot Springs, Calif. (7.5', 1:24,000); 1955 edition photorevised in 1972 and photoinspected 1978

1979 Map: Santa Ana, Calif. (1:250,000); 1959 edition revised.

APPENDIX 1:
PERSONNEL QUALIFICATIONS

PRINCIPAL INVESTIGATOR/HISTORIAN
Bai "Tom" Tang, M.A.

Education

1988-1993	Graduate Program in Public History/Historic Preservation, UC Riverside.
1987	M.A., American History, Yale University, New Haven, Connecticut.
1982	B.A., History, Northwestern University, Xi'an, China.
2000	"Introduction to Section 106 Review," presented by the Advisory Council on Historic Preservation and the University of Nevada, Reno.
1994	"Assessing the Significance of Historic Archaeological Sites," presented by the Historic Preservation Program, University of Nevada, Reno.

Professional Experience

2002-	Principal Investigator, CRM TECH, Riverside, California.
1993-2002	Project Historian/Architectural Historian, CRM TECH, Riverside, California.
1993-1997	Project Historian, Greenwood and Associates, Pacific Palisades, California.
1991-1993	Project Historian, Archaeological Research Unit, UC Riverside.
1990	Intern Researcher, California State Office of Historic Preservation, Sacramento.
1990-1992	Teaching Assistant, History of Modern World, UC Riverside.
1988-1993	Research Assistant, American Social History, UC Riverside.
1985-1988	Research Assistant, Modern Chinese History, Yale University.
1985-1986	Teaching Assistant, Modern Chinese History, Yale University.
1982-1985	Lecturer, History, Xi'an Foreign Languages Institute, Xi'an, China.

Honors and Awards

1988-1990	University of California Graduate Fellowship, UC Riverside.
1985-1987	Yale University Fellowship, Yale University Graduate School.
1980, 1981	President's Honor List, Northwestern University, Xi'an, China.

Cultural Resources Management Reports

Preliminary Analyses and Recommendations Regarding California's Cultural Resources Inventory System (With Special Reference to Condition 14 of NPS 1990 Program Review Report). California State Office of Historic Preservation working paper, Sacramento, September 1990.

Numerous cultural resources management reports with the Archaeological Research Unit, Greenwood and Associates, and CRM TECH, since October 1991.

Membership

California Preservation Foundation.

PRINCIPAL INVESTIGATOR/ARCHAEOLOGIST
Michael Hogan, Ph.D., RPA*

Education

1991	Ph.D., Anthropology, University of California, Riverside.
1981	B.S., Anthropology, University of California, Riverside; with honors.
1980-1981	Education Abroad Program, Lima, Peru.
2002	Section 106—National Historic Preservation Act: Federal Law at the Local Level. UCLA Extension Course #888.
2002	"Recognizing Historic Artifacts," workshop presented by Richard Norwood, Historical Archaeologist.
2002	"Wending Your Way through the Regulatory Maze," symposium presented by the Association of Environmental Professionals.
1992	"Southern California Ceramics Workshop," presented by Jerry Schaefer.
1992	"Historic Artifact Workshop," presented by Anne Duffield-Stoll.

Professional Experience

2002-	Principal Investigator, CRM TECH, Riverside, California.
1999-2002	Project Archaeologist/Field Director, CRM TECH, Riverside.
1996-1998	Project Director and Ethnographer, Statistical Research, Inc., Redlands.
1992-1998	Assistant Research Anthropologist, University of California, Riverside
1992-1995	Project Director, Archaeological Research Unit, U. C. Riverside.
1993-1994	Adjunct Professor, Riverside Community College, Mt. San Jacinto College, UC Riverside, Chapman University, and San Bernardino Valley College.
1991-1992	Crew Chief, Archaeological Research Unit, U. C. Riverside.
1984-1998	Archaeological Technician, Field Director, and Project Director for various southern California cultural resources management firms.

Research Interests

Cultural Resource Management, Southern Californian Archaeology, Settlement and Exchange Patterns, Specialization and Stratification, Culture Change, Native American Culture, Cultural Diversity.

Cultural Resources Management Reports

Author and co-author of, contributor to, and principal investigator for numerous cultural resources management study reports since 1986.

Memberships

* Register of Professional Archaeologists.
Society for American Archaeology.
Society for California Archaeology.
Pacific Coast Archaeological Society.
Coachella Valley Archaeological Society.

PROJECT ARCHAEOLOGIST/REPORT WRITER
Matthew Wetherbee, Msc., RPA*

Education

2004	Paleontological monitoring training session presented by Cogstone Resource Management, Santa Ana, California.
2004	Msc., Palaeoecology of Human Societies, University College London, London, England.
2001	Archaeological field school, North Kharga Oasis Survey, Western desert of Egypt, Greco-Roman period, Egypt.
1999-2001	Study abroad at the American University in Cairo, Egypt.
2000	B.A., Anthropology (emphasis in Archaeology and Zooarchaelogy), University of California, Santa Cruz (UCSC).
1999	Archaeological Field School, San Juan Bautista Historical Mission, Monterey, California, in conjunction with UCSC.
1997	A.A., Anthropology, Irvine Valley College, Irvine, California.
1997	Archaeological Field School, Saddleback College, San Juan Capistrano, California.

Professional Experience

2004- Project Archaeologist/Report Writer, CRM TECH, Riverside, California.

2003-2004 Archaeologist, Cogstone Resource Management, Santa Ana, California.
- Fieldwork, lab technician, taphonomist.

2003-2004 Archaeologist, Viejo California, Mission Viejo, California.
- Survey, testing, data recovery, and monitoring.

2002 Archaeologist, SWCA, Mission Viejo, California.
- Filed crew member for archaeological surveys, mitigation excavations, and monitoring.

2001 Research Assistant, Theban Mapping Project, the American University in Cairo, Egypt.

1999-2001 Archaeological assistant to Dr. Salima Ikram, the American University in Cairo.
- Assisted with the Animal Mummy Project at the Cairo Egyptian Museum, and various Egyptology and zooarchaeological research.

Publications

2004 "Making a Duck Mummy and Discovering a Secret of the Ancient Technology," in *KMT: A Modern Journal of Ancient Egypt*, Vol.15(2).

Conference Papers

2000 "Recipe for the Afterlife," Mummification in Ancient Egypt. American Research Center in Egypt conference at U.C. Berkeley.

Membership

* Register of Professional Archaeologists.
American Research Center in Egypt.

PROJECT ARCHAEOLOGIST
Adrián Sánchez Moreno, B.A.

Education

1999 B.A., Anthropology (with emphasis in Archaeology), University of San Diego.
2003 "Native American Ceramics Workshop," presented by the San Diego County Archaeological Society, Santa Catarina de los Pai Pai, Baja California, Mexico.
2003 "Native American Basketry Workshop," presented by the San Diego County Archaeological Society, San José de la Zorra, Baja California, Mexico.
2002 "Historic Archaeology Workshop," presented by Richard Norwood, Base Archaeologist, Edwards Air Force Base; presented at CRM TECH, Riverside.

Professional Experience

2003 Field Crew, survey and excavation on Isla de Cedros, Baja California, Mexico.
2000- Project Archaeologist, CRM TECH, Riverside.
- Surveys, excavations, data recovery, monitoring, faunal analysis, mapping, and records searches.

1999 Field Crew, excavation on Marine Corps Air Station, Camp Pendleton. K.E.A. Environmental, San Diego.
1999 Field Crew, excavation at Freedmen's Cemetery site in Alexandria, Virginia. URS Greiner Woodward & Clyde.
1999 Field Crew, survey and excavation in Guerrero Negro, Mexico.
- Including identification of osteological specimens.

1999 Field Crew, excavation at Lake Chapala, Baja California, Mexico.
- Excavation and cataloguing of lithic artifacts from the oldest known site in Baja California.

1998 Field Crew, petroglyph survey in San Pedro Atacama, Chile.
- Focusing on identification of possible habitation and petroglyph sites.

PROJECT ARCHAEOLOGIST
Thomas J. Melzer, B.A.

Education

2004 B.A., Anthropology/Cultural Resources Management, California State Polytechnic University, Pomona.

Experience

2004- Project Archaeologist, CRM TECH, Riverside.
2002 Archaeological Field Technician, Death Valley National Park Archaeological Site Resources Condition Assessment Project, California State Polytechnic University, Pomona, Foundation; directed by Dr. Mark W. Allen.
- Survey and assessment of previously recorded sites; co-author of final report.

2001-2002 Archaeological Field Technician, Red Mountain Archaeological Project, California State Polytechnic University, Pomona; directed by Dr. Mark W. Allen.
- Survey, test excavation, laboratory analysis of artifacts.

PROJECT ARCHAEOLOGIST
Michelle O. Bunn, B.A.

Education

2003 B.A., Anthropology, California State University, San Bernardino.
1996 A.S., Botany, College of the Desert.

2004 "California State Paleontology Certification Program," Anza Borrego Desert State Park.

Professional Experience

2004- Project Archaeologist/Paleontologist, CRM TECH, Riverside.
- Preparing archaeological/paleontological reports;
- Conducting archaeological/paleontological field surveys;
- Participating in various archaeological/paleontological testing, mitigation, and monitoring programs.

2003- Volunteer Paleontologist, Anza Borrego Desert State Park.
- Conducting paleontological field surveys;
- Participating in paleontological recovery programs;
- Conducting laboratory identification and preparation of fossil specimens;
- Curating fossil collections.

2003-2004 Education Program Manager (Natural Science), Palm Springs Desert Museum.
- Supervise and develop educational components for natural science exhibitions;
- Develop lesson plans and exhibition-related teachers' packets;
- Organize museum natural science bus trips and extended trips.

1998- Naturalist, Covered Wagon Tours.
- Provide educational tours with emphasis on the natural and cultural history of the Coachella Valley.

1998- Independent Contractor.
- Conduct studies on the ethnobotany and natural history of the Coachella Valley.

1996-2003 Education Specialist (Natural Science), Palm Springs Desert Museum.
- Instruction in classes for students K-7 grades;
- Design and write exhibition-related student periodical, exhibit text, and newspaper articles;
- Conduct natural history bus tours, lectures, workshops, and docent training;
- Supervise plant transect surveys as well as animal care and collection.

Memberships

Coachella Valley Archaeological Society (current president).
ABDSP Paleontology Society.
Natural and Cultural History Outreach.

ATTACHMENT B

CORRESPONDENCE WITH NATIVE AMERICAN REPRESENTATIVES*

* A total of 16 local Native American representatives were contacted during this study; a sample letter is included in the appendix.

SACRED LANDS FILE & NATIVE AMERICAN CONTACTS LIST REQUEST

NATIVE AMERICAN HERITAGE COMMISSION
1550 Harbor Boulevard, Suite 100
West Sacramento, CA 95691
(916)373-3710
(916)373-5471 (Fax)
nahc@pacbell.net

Project: Proposed TPM No. 32706; Assessor's Parcel Nos. 665-080-005 and -007 (CRM TECH No. 3345)

County: Riverside

USGS Quadrangle Name: Desert Hot Springs, Calif.

Township 3 South **Range** 4 East SB **BM; Section(s)** 1

Company/Firm/Agency: CRM TECH

Contact Person: Nina Gallardo

Street Address: 1016 E. Cooley Drive, Suite A/B

City: Colton, CA **Zip:** 92324

Phone: (909) 824-6400 **Fax:** (909) 824-6405

Email: ngallardo@crmtech.us

Project Description: The primary component of the project is to develop 108.25 acres of land located west of Atlantic Avenue and between 15th and 16th avenue (APNs 665-080-005 and -007) in the City of Desert Hot Springs, Riverside County, California.

May 10, 2018

From: ngallardo@crmtech.us
Sent: Thursday, May 10, 2018 3:44 PM
To: 'ACBCI-THPO@aguacaliente.net'; 'Feeney, Hannah (TRBL)'; Katherine Croft (TRBL) (kcroft@aguacaliente.net)
Subject: Update to cultural study and participation in fieldwork for TPM No. 32706; Assessor's Parcel Nos. 665-080-005 and -007 (CRM TECH # 3345)

Hello,

I'm emailing to inform you that CRM TECH will be conducting an update to a previously completed historical/archaeological resources study (#1433) for the above-referenced project (CRM TECH # 3345). I'm contacting you to see if the tribe would like to participate in the field survey for the project and we will contact the tribe again when we have a specific time and date for the fieldwork. We would appreciate any information regarding the project area. We will be sending an NA scoping letter with additional information very soon. I'm attaching the proposed project area map and other information.

Thank you for your time and input on this project.

Nina Gallardo
CRM TECH

NATIVE AMERICAN HERITAGE COMMISSION
Cultural and Environmental Department
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
(916) 373-3710

May 11, 2018

Nina Gallardo
CRM TECH

Sent by E-mail: ngallardo@crmtech.us

RE: Proposed TPM No. 32706, Assessor's Parcel Nos. 665-080-005 and -007 (CRM TECH No. 3345) Project, City of Desert Hot Springs; Desert Hot Springs USGS Quadrangle, Riverside County, California

Dear Ms. Gallardo:

A record search of the Native American Heritage Commission (NAHC) *Sacred Lands File* was completed for the area of potential project effect (APE) referenced above with negative results. Please note that the absence of specific site information in the *Sacred Lands File* does not indicate the absence of Native American cultural resources in any APE.

Attached is a list of tribes culturally affiliated to the project area. I suggest you contact all of the listed Tribes. If they cannot supply information, they might recommend others with specific knowledge. The list should provide a starting place to locate areas of potential adverse impact within the APE. By contacting all those on the list, your organization will be better able to respond to claims of failure to consult. If a response has not been received within two weeks of notification, the NAHC requests that you follow-up with a telephone call to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from any of these individuals or groups, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact via email: gayle.totton@nahc.ca.gov.

Sincerely,

Gayle Totton

Gayle Totton, M.A., PhD.
Associate Governmental Program Analyst
(916) 373-3714

CONFIDENTIALITY NOTICE: This communication with its contents may contain confidential and/or legally privileged information. It is solely for the use of the intended recipient(s). Unauthorized interception, review, use or disclosure is prohibited and may violate applicable laws including the Electronic Communications Privacy Act. If you are not the intended recipient, please contact the sender and destroy all copies of the communication.

Native American Heritage Commission
Native American Contact List
Riverside County
5/11/2018

Agua Caliente Band of Cahuilla Indians
Jeff Grubbe, Chairperson
5401 Dinah Shore Drive — Cahuilla
Palm Springs, CA, 92264 — Luiseno
Phone: (760) 699 - 6800
Fax: (760) 699-6919

Agua Caliente Band of Cahuilla Indians
Patricia Garcia-Plotkin, Director
5401 Dinah Shore Drive — Cahuilla
Palm Springs, CA, 92264 — Luiseno
Phone: (760) 699 - 6907
Fax: (760) 699-6924
ACBCI-THPO@aguacaliente.net

Augustine Band of Cahuilla Mission Indians
Amanda Vance, Chairperson
P.O. Box 846 — Cahuilla
Coachella, CA, 92236
Phone: (760) 398 - 4722
Fax: (760) 369-7161
hhaines@augustinetribe.com

Cabazon Band of Mission Indians
Doug Welmas, Chairperson
84-245 Indio Springs Parkway — Cahuilla
Indio, CA, 92203
Phone: (760) 342 - 2593
Fax: (760) 347-7880
jstapp@cabazonindians-nsn.gov

Cahuilla Band of Indians
Daniel Salgado, Chairperson
52701 U.S. Highway 371 — Cahuilla
Anza, CA, 92539
Phone: (951) 763 - 5549
Fax: (951) 763-2808
Chairman@cahuilla.net

Campo Band of Mission Indians
Ralph Goff, Chairperson
36190 Church Road, Suite 1 — Kumeyaay
Campo, CA, 91906
Phone: (619) 478 - 9046
Fax: (619) 478-5818
rgoff@campo-nsn.gov

Ewiiaapaayp Tribal Office
Robert Pinto, Chairperson
4054 Willows Road — Kumeyaay
Alpine, CA, 91901
Phone: (619) 445 - 6315
Fax: (619) 445-9126
wmicklin@leaningrock.net

Ewiiaapaayp Tribal Office
Michael Garcia, Vice Chairperson
4054 Willows Road — Kumeyaay
Alpine, CA, 91901
Phone: (619) 445 - 6315
Fax: (619) 445-9126
michaelg@leaningrock.net

Jamul Indian Village
Erica Pinto, Chairperson
P.O. Box 612 — Kumeyaay
Jamul, CA, 91935
Phone: (619) 669 - 4785
Fax: (619) 669-4817
mohusky@jiv-nsn.gov

La Posta Band of Mission Indians
Gwendolyn Parada, Chairperson
8 Crestwood Road — Kumeyaay
Boulevard, CA, 91905
Phone: (619) 478 - 2113
Fax: (619) 478-2125
LP13boots@aol.com

La Posta Band of Mission Indians
Javaughn Miller, Tribal Administrator
8 Crestwood Road — Kumeyaay
Boulevard, CA, 91905
Phone: (619) 478 - 2113
Fax: (619) 478-2125
jmiller@LPtribe.net

Los Coyotes Band of Mission Indians
Shane Chapparosa, Chairperson
P.O. Box 189 — Cahuilla
Warner Springs, CA, 92086-0189
Phone: (760) 782 - 0711
Fax: (760) 782-0712
Chapparosa@msn.com

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed TPM No. 32706 Project, Riverside County.

Native American Heritage Commission
Native American Contact List
Riverside County
5/11/2018

Los Coyotes Band of Mission Indians
John Perada, Environmental Director
P. O. Box 189 — Cahuilla
Warner Springs, CA, 92086
Phone: (760) 782 - 0712
Fax: (760) 782-2730

Manzanita Band of Kumeyaay Nation
Angela Elliott Santos, Chairperson
P.O. Box 1302 — Kumeyaay
Boulevard, CA, 91905
Phone: (619) 766 - 4930
Fax: (619) 766-4957

Morongo Band of Mission Indians
Robert Martin, Chairperson
12700 Pumarra Rroad — Cahuilla
Banning, CA, 92220 — Serrano
Phone: (951) 849 - 8807
Fax: (951) 922-8146
dtorres@morongo-nsn.gov

Morongo Band of Mission Indians
Denisa Torres, Cultural Resources Manager
12700 Pumarra Rroad — Cahuilla
Banning, CA, 92220 — Serrano
Phone: (951) 849 - 8807
Fax: (951) 922-8146
dtorres@morongo-nsn.gov

Ramona Band of Cahuilla Mission Indians
Joseph Hamilton, Chairperson
P.O. Box 391670 — Cahuilla
Anza, CA, 92539
Phone: (951) 763 - 4105
Fax: (951) 763-4325
admin@ramonatribe.com

Ramona Band of Cahuilla Mission Indians
John Gomez, Environmental Coordinator
P. O. Box 391670 — Cahuilla
Anza, CA, 92539
Phone: (951) 763 - 4105
Fax: (951) 763-4325
jgomez@ramonatribe.com

San Fernando Band of Mission Indians
Donna Yocum, Chairperson
P.O. Box 221838 — Kitanemuk
Newhall, CA, 91322 — Serrano
Phone: (503) 539 - 0933 — Tataviam
Fax: (503) 574-3308
ddyocum@comcast.net

San Manuel Band of Mission Indians
Lee Clauss, Director of Cultural Resources
26569 Community Center Drive — Serrano
Highland, CA, 92346
Phone: (909) 864 - 8933
Fax: (909) 864-3370
lclauss@sanmanuel-nsn.gov

San Pasqual Band of Mission Indians
John Flores, Environmental Coordinator
P. O. Box 365 — Kumeyaay
Valley Center, CA, 92082
Phone: (760) 749 - 3200
Fax: (760) 749-3876
johnf@sanpasqualtribe.org

San Pasqual Band of Mission Indians
Allen E. Lawson, Chairperson
P.O. Box 365 — Kumeyaay
Valley Center, CA, 92082
Phone: (760) 749 - 3200
Fax: (760) 749-3876
allenl@sanpasqualtribe.org

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed TPM No. 32706 Project, Riverside County.

Santa Rosa Band of Mission Indians
Steven Estrada, Chairperson
P.O. Box 391820 — Cahuilla
Anza, CA, 92539
Phone: (951) 659 - 2700
Fax: (951) 659-2228
mflaxbeard@santarosacahuilla-nsn.gov

Serrano Nation of Mission Indians
Goldie Walker, Chairperson
P.O. Box 343 — Serrano
Patton, CA, 92369
Phone: (909) 528 - 9027

Soboba Band of Luiseno Indians
Scott Cozart, Chairperson
P. O. Box 487 — Cahuilla
San Jacinto, CA, 92583 — Luiseno
Phone: (951) 654 - 2765
Fax: (951) 654-4198
jontiveros@soboba-nsn.gov

Soboba Band of Luiseno Indians
Carrie Garcia, Cultural Resources Manager
P. O. Box 487 — Cahuilla
San Jacinto, CA, 92583 — Luiseno
Phone: (951) 654 - 2765
Fax: (951) 654-4198
carrieg@soboba-nsn.gov

Soboba Band of Luiseno Indians
Joseph Ontiveros, Cultural Resource Department
P.O. BOX 487 — Cahuilla
San Jacinto, CA, 92581 — Luiseno
Phone: (951) 663 - 5279
Fax: (951) 654-4198
jontiveros@soboba-nsn.gov

Sycuan Band of the Kumeyaay Nation
Cody J. Martinez, Chairperson
1 Kwaaypaay Court — Kumeyaay
El Cajon, CA, 92019
Phone: (619) 445 - 2613
Fax: (619) 445-1927
ssilva@sycuan-nsn.gov

Sycuan Band of the Kumeyaay Nation
Lisa Haws, Cultural Resources Manager
1 Kwaaypaay Court — Kumeyaay
El Cajon, CA, 92019
Phone: (619) 312 - 1935
lhaws@sycuan-nsn.gov

Torres-Martinez Desert Cahuilla Indians
Michael Mirelez, Cultural Resource Coordinator
P.O. Box 1160 — Cahuilla
Thermal, CA, 92274
Phone: (760) 399 - 0022
Fax: (760) 397-8146
mmirelez@tmdci.org

Twenty-Nine Palms Band of Mission Indians
Darrell Mike, Chairperson
46-200 Harrison Place — Chemehuevi
Coachella, CA, 92236
Phone: (760) 863 - 2444
Fax: (760) 863-2449
29chairman@29palmsbomi-nsn.gov

Twenty-Nine Palms Band of Mission Indians
Anthony Madrigal, Tribal Historic Preservation Officer
46-200 Harrison Place — Chemehuevi
Coachella, CA, 92236
Phone: (760) 775 - 3259
amadrigal@29palmsbomi-nsn.gov

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed TPM No. 32706 Project, Riverside County.

Viejas Band of Kumeyaay Indians
Robert Welch, Chairperson
1 Viejas Grade Road Kumeyaay
Alpine, CA, 91901
Phone: (619) 445 - 3810
Fax: (619) 445-5337
jhagen@viejas-nsn.gov

Viejas Band of Kumeyaay Indians
Julie Hagen,
1 Viejas Grade Road Kumeyaay
Alpine, CA, 91901
Phone: (619) 445 - 3810
Fax: (619) 445-5337
jhagen@viejas-nsn.gov

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed TPM No. 32706 Project, Riverside County.

May 18, 2018

Patricia Garcia-Plotkin, Director of the Tribal Historic Preservation Office
Agua Caliente Band of Cahuilla Indians
5401 Dinah Shore Drive
Palm Springs, CA 92264

RE: Proposed Tract Parcel Map No. 32706 Project
Assessor's Parcel Nos. 665-080-005 and -007
108.25 Acres in the City of Desert Hot Springs
Riverside County, California
CRM TECH #3345

Dear Ms. Garcia-Plotkin:

I am writing to bring your attention to an ongoing CEQA-compliance study for the proposed project referenced above. The project entails a development for light industrial use on approximately 108.25 acres of land that is located west of Atlantic Avenue and between 15th and 16th Avenues, with a wash on the western boundary, in the City of Desert Hot Springs (APNs 665-080-005 and -007). The project area was originally surveyed by CRM TECH in 2004 and no cultural resources were identified at that time. The accompanying map, based on the USGS Desert Hot Springs, Calif., 7.5' quadrangle, depicts the location of the project area in Section 1, T3S R4E, SBBM.

In a letter dated May 11, 2018, the Native American Heritage Commission reports that the sacred lands record search identified no Native American cultural resources within the project area, but recommends that local Native American groups be contacted for further information (see attached). Therefore, as part of the cultural resources study for this project, I am writing to request your input on potential Native American cultural resources in or near the project area.

Please respond at your earliest convenience if you have any specific knowledge of sacred/religious sites or other sites of Native American traditional cultural value in or near the project area, or any other information to consider during the cultural resources investigations. Any information or concerns may be forwarded to CRM TECH by telephone, e-mail, facsimile, or standard mail. Requests for documentation or information we cannot provide will be forwarded to our client and/or the lead agency, namely the City of Desert Hot Springs.

We would also like to clarify that, as the cultural resources consultant for the project, CRM TECH is not involved in the AB 52-compliance process or in government-to-government consultations. The purpose of this letter is to seek any information that you may have to help us determine if there are cultural resources in or near the project area that we should be aware of and to help us assess the sensitivity of the project area. Thank you for your time and effort in addressing this important matter.

Respectfully,

Nina Gallardo
Project Archaeologist/Native American liaison
CRM TECH

Encl.: NAHC response letter and project location map

From: Jessica Mauck <JMauck@sanmanuel-nsn.gov>
Sent: Monday, May 21, 2018 11:53 AM
To: ngallardo@crmtech.us
Subject: Re: NA Scoping Letter for Tract Parcel Map No. 32706; APNs 665-080-005 and -007 in the City of Desert Hot Springs, Riverside County (CRM TECH # 3345)

Hi Nina,

Thank you for contacting the San Manuel Band of Mission Indians (SMBMI) regarding the above referenced project. SMBMI appreciates the opportunity to review the project documentation, which was received by our Cultural Resources Management Department on 18 May 2018. The proposed project is located just outside of Serrano ancestral territory and, as such, SMBMI will not request consulting party status or elect to participate in the scoping, development, and/or review of documents created pursuant to these legal and regulatory mandates.

Regards,

Jessica Mauck
CULTURAL RESOURCES ANALYST
O: (909) 864-8933 x3249
M: (909) 725-9054
26569 Community Center Drive, Highland California 92346

From: Cultural Department <culturaldirector@cahuilla.net>
Sent: Monday, May 21, 2018 12:04 PM
To: ngallardo@crmtech.us
Cc: anthonymad2002@gmail.com
Subject: Re: NA Scoping Letter for Tract Parcel Map No. 32706; APNs 665-080-005 and -007 in the City of Desert Hot Springs, Riverside County (CRM TECH # 3345)

Dear Ms. Gallardo,

The Cahuilla Band of Indians received your letter on May 18, 2018 regarding the Proposed Tract Parcel Map No. 32706 Project (APN 665-080-005) and -007 in the City of Desert Hot Springs, Riverside County, CA. The Cahuilla band does not have knowledge of any cultural resources/sites within or near the project area. Although the project is outside the Cahuilla reservation boundary, it is within the Cahuilla traditional land use area. We respectfully request to be notified of all updates and/or changes with the project moving forward and appreciate your help in preserving Tribal Cultural Resources in your project.

Respectfully,

BobbyRay Esparza
Cultural Coordinator
Cahuilla Band of Indians
Cell: (760)423-2773
Office: (951)763-5549
Fax:(951)763-2808

AUGUSTINE BAND OF CAHUILLA INDIANS

PO Box 846 84-481 Avenue 54 Coachella CA 92236
Telephone: (760) 398-4722
Fax (760) 369-7161
Tribal Chairperson: Amanda Vance
Tribal Vice-Chairperson: William Vance
Tribal Secretary: Victoria Martin

May 22, 2018

Nina Gallardo
CRM Tech
1016 E. Cooley Drive, Suite A/B
Colton, CA 92236

RE: **Proposed Tract Parcel Map No. 32706 Project**
Assessor's Parcel Nos. 665-080-005 an d-007
108.25 Acres in the City of Desert Hot Springs, Riverside County, California
CRM TECH #3345

Dear Ms. Gallardo -

Thank you for the opportunity to offer input concerning the development of the above-identified project. We appreciate your sensitivity to the cultural resources that may be impacted by your project, and the importance of these cultural resources to the Native American peoples that have occupied the land surrounding the area of your project for thousands of years. Unfortunately, increased development and lack of sensitivity to cultural resources has resulted in many significant cultural resources being destroyed or substantially altered and impacted. Your invitation to consult on this project is greatly appreciated.

At this time we are unaware of specific cultural resources that may be affected by the proposed project. We encourage you to contact other Native American Tribes and individuals within the immediate vicinity of the project site that may have specific information concerning cultural resources that may be located in the area. We also encourage you to contract with a monitor who is qualified in Native American cultural resources identification and who is able to be present on-site full-time during the pre-construction and construction phase of the project. Please notify us immediately should you discover any cultural resources during the development of this project.

Very truly yours,

Victoria Martin
Tribal Secretary

RECEIVED
MAY 29 2018

May 23, 2018

Nina Gallardo
Project Archaeologist/Native American Liaison
CRM TECH
1016 E. Cooley Drive, Suite A/B
Colton, CA 92324

Re.: Proposed Tract Parcel Map No. 32706 Project
Assessor's Parcel Nos. 665-080-005 and -007
108.25 Acres in the City of Desert Hot Springs
Riverside, County, California
CRM TECH Contract #3345

Dear Ms. Gallardo:

Thank you for contacting the Cabazon Band of Mission Indians concerning cultural resource information relative to the above referenced project.

The project is located outside of the Tribe's current reservation boundaries. The Tribe has no specific archival information on the site indicating that it may be a sacred/religious site or other site of Native American traditional cultural value within the project area.

We look forward to continued collaboration in the preservation of cultural resources or areas of traditional cultural importance.

Best regards,

Judy Stapp
Director of Cultural Affairs

RECEIVED
MAY 22 2018

84-245 INDIO SPRINGS PARKWAY • INDIO, CALIFORNIA 92203-3499 • 760.342.2593 • FAX: 760.347.7880

From: ngallardo@crmtech.us
Sent: Tuesday, May 29, 2018 3:43 PM
To: 'ACBCI-THPO@aguacaliente.net'; Katherine Croft (TRBL)(kcroft@aguacaliente.net); 'Feeney, Hannah (TRBL)'
Subject: FW: Update to cultural study and participation in fieldwork for TPM No. 32706; Assessor's Parcel Nos. 665-080-005 and -007 (CRM TECH # 3345)

Hello,

I'm contacting you regarding the earlier email I sent out on May 10th about the site visit for the above-referenced project. We are wondering if the tribe is available this Thursday or Friday (5/31 or 6/1) to join us on the site visit. Please let me know if the days mentioned are convenient for the tribe.

Thanks for your time,

Nina Gallardo
CRM TECH
909-824-6400

MORONGO BAND OF MISSION INDIANS
TRIBAL HISTORIC PRESERVATION OFFICE
12700 PUMARRA RD BANNING, CA 92220
OFFICE 951-755-5025 FAX 951-572-6004

Date: 5/30/2018

Re:
CRM TECH CONTRACT #3345 – Desert Hot Springs No. 32706

Dear,
Nina Gallardo
Project Archaeologist/Native American Liaison
CRM TECH

Thank you for contacting the Morongo Band of Mission Indians (MBMI) Cultural Heritage Department regarding the above referenced project(s). After conducting a preliminary review of the project, the tribe would like to respectfully issue the following comments and/or requests:

☐ The project is located outside of the Tribe's aboriginal territory and is not within an area considered to be a traditional use area or one in which the Tribe has cultural ties. We recommend contacting the appropriate tribe(s) who may have cultural affiliations to the project area. We have no further comments at this time.

☒ The project is located within the Tribe's aboriginal territory or in an area considered to be a traditional use area or one in which the Tribe has cultural ties. In order to further evaluate the project for potential impacts to tribal cultural resources, we would like to formally request the following:

- ☒ A thorough records search be conducted by contacting one of the California Historical Resources Information System (CHRIS) Archaeological Information Centers and a copy of the search results be provided to the tribe.
- ☒ Tribal monitor participation during the initial pedestrian field survey of the Phase I Study of the project and a copy of the results of that study. In the event the pedestrian survey has already been conducted, MBMI requests a copy of the Phase I study be provided to the tribe as soon as it can be made available.
- ☐ MBMI Tribal Cultural Resource Monitor(s) be present during all required ground disturbing activities pertaining to the project.

☐ The project is located with the current boundaries of the Morongo Indian Reservation. Please contact the Morongo Cultural Heritage Department for further details.

Please be aware that this letter is merely intended to notify your office that the tribe has received your letter requesting tribal consultation for the above mentioned project and is requesting to engage in consultation. Specific details regarding the tribe's involvement in the project must be discussed on a project by project basis during the tribal consultation process. This letter does not constitute "meaningful" tribal consultation nor does it conclude the consultation process. Under federal and state law, "meaningful" consultation is understood to be an ongoing government-to-government process and may involve requests for additional information, phone conferences and/or face-to-face meetings. If you have any further questions or concerns regarding this letter, please contact the Morongo Cultural Heritage office at (951) 755-5139.

Sincerely,

Raymond Huaute
Tribal Historic Preservation Officer
Morongo Band of Mission Indians
Email: rhuaute@morongo-nsn.gov
Phone: (951) 755-5025

Appendix E

EMFAC 2017 Database

EMFAC2017 (v1.0.2) Emissions Inventory
Region Type: Air Basin
Region: SOUTH COAST
Calendar Year: 2020
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Y	Vehicle Ca	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel Consumption
SOUTH COAST	2020	HHDT	Aggregated	Aggregated	GAS	87.06695	7544.942081	1742.036	1.924993227
SOUTH COAST	2020	LDA	Aggregated	Aggregated	GAS	6178149	245245789.6	29171004	8365.832232
SOUTH COAST	2020	LDT1	Aggregated	Aggregated	GAS	673575	25456837.2	3092733	1009.703307
SOUTH COAST	2020	LDT2	Aggregated	Aggregated	GAS	2108550	81418834.91	9872323	3534.790518
SOUTH COAST	2020	LHDT1	Aggregated	Aggregated	GAS	173614.6	6333810.586	2586599	612.6252653
SOUTH COAST	2020	LHDT2	Aggregated	Aggregated	GAS	28771.82	1018932.099	428657.2	113.1501167
SOUTH COAST	2020	MCY	Aggregated	Aggregated	GAS	269351.1	1916380.232	538702.2	52.6214956
SOUTH COAST	2020	MDV	Aggregated	Aggregated	GAS	1509433	54618603.59	6970808	2902.923832
SOUTH COAST	2020	MH	Aggregated	Aggregated	GAS	35045.57	331213.3277	3505.959	66.05937563
SOUTH COAST	2020	MHDT	Aggregated	Aggregated	GAS	24612.45	1335068.759	492445.8	269.6494288
SOUTH COAST	2020	OBUS	Aggregated	Aggregated	GAS	5846.823	252354.2354	116983.2	51.34879326
SOUTH COAST	2020	SBUS	Aggregated	Aggregated	GAS	2268.163	93420.86198	9072.651	10.43507716
SOUTH COAST	2020	UBUS	Aggregated	Aggregated	GAS	938.2571	88202.7311	3753.029	18.36430248

vehicle miles per day (All Categories) 418,116,993

17,009 1,000 gall per day
17,009,429 gallons per day

Fleet Avg Miles per gallon 24.6

EMFAC2017 (v1.0.2) Emissions Inventory
Region Type: Air Basin
Region: SOUTH COAST
Calendar Year: 2020
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Y	Vehicle Cat	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel Consumption
SOUTH COAST	2020	HHDT	Aggregated	Aggregated	DSL	94401.01	11283644	946656.7	1766.775921
SOUTH COAST	2020	LDA	Aggregated	Aggregated	DSL	49858.73	2047191.98	236026.5	44.27440932
SOUTH COAST	2020	LDT1	Aggregated	Aggregated	DSL	436.3696	10308.3494	1529.802	0.467774015
SOUTH COAST	2020	LDT2	Aggregated	Aggregated	DSL	11074.64	498881.676	54951.17	14.81780046
SOUTH COAST	2020	LHDT1	Aggregated	Aggregated	DSL	103329.4	4276352.72	1299754	203.9630505
SOUTH COAST	2020	LHDT2	Aggregated	Aggregated	DSL	40572.87	1644689.8	510355.6	86.79286353
SOUTH COAST	2020	MDV	Aggregated	Aggregated	DSL	26705.38	1126984.42	131705	43.60769552
SOUTH COAST	2020	MH	Aggregated	Aggregated	DSL	11453.97	113100.72	1145.397	10.93302012
SOUTH COAST	2020	MHDT	Aggregated	Aggregated	DSL	116761.7	7338725.15	1166319	723.8084841
SOUTH COAST	2020	OBUS	Aggregated	Aggregated	DSL	4066.241	300794.137	39836.27	37.44688162
SOUTH COAST	2020	SBUS	Aggregated	Aggregated	DSL	6271.332	198203.043	72370.31	26.62266433
SOUTH COAST	2020	UBUS	Aggregated	Aggregated	DSL	18.19692	1877.44623	72.78767	0.296796191

Diesel Truck (HHDT, MDV, MHDT) vehicle miles per day	19,749,354	2,534	1,000 gall per day
		2,534,192	gallons per day
Diesel Truck Fleet Avg Miles per gallon	7.8		

Appendix F

Geotechnical Update/Geotechnical Investigation

Sladden Engineering

45090 Golf Center Parkway, Suite F, Indio, CA 92201 (760) 863-0713
6782 Stanton Avenue, Suite C, Buena Park, CA 90621 (714) 523-0952
450 Egan Avenue, Beaumont, CA 92223 (951) 845-7743 Fax (951) 845-8863
800 E. Florida Avenue, Hemet, CA 92543 (951) 766-8777
www.sladdenengineering.com

September 27, 2019

Project No. 544-4433
19-09-432

The Altum Group
73-710 Fred Waring Drive, Suite 219
Palm Desert, California 92260

Project: Proposed Industrial Park
Tentative Tract #32706
APN 665-080-005 & 007
APN 665-050-028
Desert Hot Springs Area
Riverside County, California

Subject: Geotechnical Update

Ref: Geotechnical Investigation report prepared by Sladden Engineering dated September 2, 2004; Project No. 544-4433, Report No. 04-09-614
Geotechnical Update prepared by Sladden Engineering dated May 9, 2018; Project No. 544-4433, Report No. 18-05-226

In accordance with your request, we have reviewed the above referenced geotechnical report prepared for the project site as it relates to the design and construction of the proposed industrial development. The project site identified as Tentative Tract No. 32706 includes APN's 665-080-005 & 007 and APN 665-050-028 located in the Desert Hot Springs area of Riverside County, California. It is our understanding that the proposed industrial buildings will be of relatively lightweight wood-frame, steel frame, reinforced masonry or reinforced concrete tilt-up construction and will be supported upon conventional shallow spread footings and a concrete slab on grade.

The referenced Geotechnical Investigation report includes recommendations pertaining to the design of industrial building foundations and for remedial grading. Based upon our review of the referenced report and our understanding of the proposed construction, it is our opinion that the structural values and remedial grading recommendations provided in the referenced Geotechnical Investigation report remain applicable for use in the design and construction of the proposed industrial complex.

In order to provide uniform foundation support, we recommend over-excavation and re-compaction throughout the proposed building areas. The building areas should be over-excavated to a depth of approximately 2 feet below existing grade or 2 feet below the bottom of the footings, whichever is deeper. The exposed soil should than be scarified to a depth of 1 foot, moisture conditioned and recompacted to at least 90 percent relative compaction. The excavated material may then be replaced as engineered fill material. Fill material should be placed in thin lifts at near optimum moisture content and compacted to at least 90 percent of maximum density. Over-excavation should be observed by a representative of Sladden Engineering and compaction should be verified by testing.

In our opinion, the structural values provided in the referenced Geotechnical Investigation report remain applicable for use in foundation design. Footings should extend at least 12 inches beneath lowest adjacent grade. Isolated square or rectangular footings at least 2 feet square may be designed using an allowable bearing value of 2000 pounds per square foot. Continuous footings at least 12 inches wide may be designed using an allowable bearing value of 1800 pounds per square foot. Allowable increases of 200 psf for each additional 1 foot of width and 250 psf for each additional 6 inches of depth may be utilized if desired. The maximum allowable bearing pressure should be 3000 psf. The allowable bearing pressures are for dead and frequently applied live loads and may be increased by 1/3 to resist wind, seismic or other transient loading.

Resistance to lateral loads can be provided by a combination of friction acting at the base of the slabs or foundations and passive earth pressure along the sides of the foundations. A coefficient of friction of 0.45 between soil and concrete may be used with dead load forces only. A passive earth pressure of 300 pounds per square foot, per foot of depth, may be used for the sides of footings that are placed against properly compacted native soils.

The bearing soil is non-expansive and falls within the "very low" expansion category in accordance with California Building Code (CBC) classification criteria.

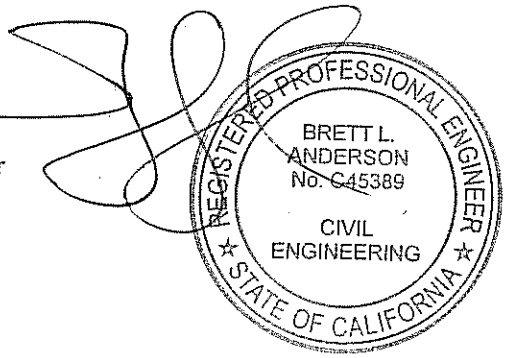
The seismic design category for a structure may be determined in accordance with Section 1613 of the 2016 CBC or ASCE7. According to the 2016 CBC, Site Class D may be used to estimate design seismic loading for the proposed structures. The 2016 CBC Seismic Design Parameters are summarized below.

Risk Category (Table 1.5-1): II
Site Class (Table 1613.3.2): D
S_S (Figure 1613.3.1): 2.784g
S_1 (Figure 1613.3.1): 1.030g
F_a (Table 1613.3.3(1)): 1.0
F_v (Table 1613.5.3(2)): 1.5
S_{MS} (Equation 16-37 {F_a X S_S}): 2.784g
S_{M1} (Equation 16-38 {F_v X S_1}): 1.545g
S_{DS} (Equation 16-39 {2/3 X S_{MS}}): 1.856g
S_{D1} (Equation 16-40 {2/3 X S_{M1}}): 1.030g
Seismic Design Category: E

Although the subject property is located within a County of Riverside designated liquefaction hazard zone, historic groundwater maps for the site vicinity indicate historic high groundwater levels of approximately 80 to 100 feet below the existing ground surface in the vicinity of the site. Based upon the depth to groundwater in the site vicinity, it is our opinion that the potential for liquefaction impacting the subject site is "negligible".

If you have questions regarding this letter or the referenced report, please contact the undersigned.

Respectfully submitted,
SLADDEN ENGINEERING



Brett L. Anderson
Principal Engineer

SER/nh

Copies: 4/ Addressee

Sladden Engineering

45090 Golf Center Parkway, Suite F, Indio, CA 92201 (760) 863-0713
6782 Stanton Avenue, Suite C, Buena Park, CA 90621 (714) 523-0952
450 Egan Avenue, Beaumont, CA 92223 (951) 845-7743 Fax (951) 845-8863
800 E. Florida Avenue, Hemet, CA 92543 (951) 766-8777

May 9, 2018

Project No. 544-443
18-05-226

DHS 109 Properties, LLC
P. O. Box 2399
Ranch Mirage, California 92270

Project: Proposed Industrial Park
Tentative Tract #32706
APN 665-080-005, 007 And APN 665-050-028
Desert Hot Springs, California

Subject: Geotechnical Update

Ref: Geotechnical Investigation report prepared by Sladden Engineering dated September 2, 2004; Project No. 544-4433, Report No. 04-09-614

In accordance with your request, we have reviewed the above referenced geotechnical report prepared for the project site as it relates to the design and construction of the proposed industrial development. The project site identified as Tentative Tract #32706 includes APN's 665-080-005, 007 and APN 665-050-028 is located in the Desert Hot Springs area of Riverside County, California. It is our understanding that the proposed industrial buildings will be of relatively lightweight wood-frame, steel frame, reinforced masonry or reinforced concrete tilt-up construction and will be supported upon conventional shallow spread footings and a concrete slab on grade.

The referenced report includes recommendations pertaining to the design of the industrial foundations and for remedial grading. Based upon our review of the referenced report and our understanding of the proposed construction, it is our opinion that the structural values provided in the referenced report should be applicable for the design and construction of the proposed industrial foundations.

In order to provide uniform foundation support, we recommend over-excavation and re-compaction throughout the proposed building areas. The building areas should be over-excavated to a depth of approximately 2 feet below existing grade or 2 feet below the bottom of the footings, whichever is deeper. The exposed soil should than be scarified to a depth of 1 foot, moisture conditioned and recompacted to at least 90 percent relative compaction. The excavated material may then be replaced as engineered fill material. Fill material should be placed in thin lifts at near optimum moisture content and compacted to at least 90 percent of maximum density. Over-excavation should be observed by a representative of Sladden Engineering and compaction should be verified by testing.

In our opinion, the structural values provided in the referenced geotechnical report remain applicable for use in foundation design. Footings should extend at least 12 inches beneath lowest adjacent grade. Isolated square or rectangular footings at least 2 feet square may be designed using an allowable bearing value of 2000 pounds per square foot. Continuous footings at least 12 inches wide may be designed using an allowable bearing value of 1800 pounds per square foot. Allowable increases of 200 psf for each additional 1 foot of width and 250 psf for each additional 6 inches of depth may be utilized if desired. The maximum allowable bearing pressure should be 3000 psf. The allowable bearing pressures are for dead and frequently applied live loads and may be increased by 1/3 to resist wind, seismic or other transient loading.

Resistance to lateral loads can be provided by a combination of friction acting at the base of the slabs or foundations and passive earth pressure along the sides of the foundations. A coefficient of friction of 0.45 between soil and concrete may be used with dead load forces only. A passive earth pressure of 300 pounds per square foot, per foot of depth, may be used for the sides of footings that are placed against properly compacted native soils.

The bearing soil is non-expansive and falls within the "very low" expansion category in accordance with California Building Code (CBC) classification criteria.

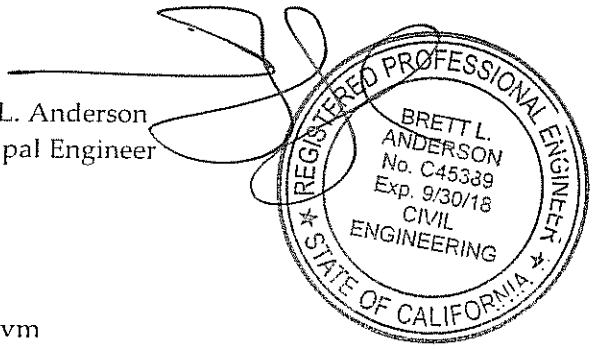
The seismic design category for a structure may be determined in accordance with Section 1613 of the 2016 CBC or ASCE7. According to the 2016 CBC, Site Class D may be used to estimate design seismic loading for the proposed structures. The 2016 CBC Seismic Design Parameters are summarized below.

Risk Category (Table 1.5-1): I/II/III
Site Class (Table 1613.3.2): D
S_S (Figure 1613.3.1): 2.747g
S_1 (Figure 1613.3.1): 1.015g
F_a (Table 1613.3.3(1)): 1.0
F_v (Table 1613.5.3(2)): 1.5
S_{MS} (Equation 16-37 {F_a X S_S}): 2.747g
S_{M1} (Equation 16-38 {F_v X S_1}): 1.522g
S_{DS} (Equation 16-39 {2/3 X S_{MS}}): 1.832g
S_{D1} (Equation 16-40 {2/3 X S_{M1}}): 1.015g
Seismic Design Category: E

Although the subject property is located within a County of Riverside designated liquefaction hazard zone, historic groundwater maps for the site vicinity indicate historic high groundwater levels of approximately 80 to 100 feet below the existing ground surface in the vicinity of the site. Based upon the depth to groundwater in the site vicinity, it is our opinion that the potential for liquefaction impacting the subject site is "negligible".

If you have questions regarding this letter or the referenced report, please contact the undersigned.

Respectfully submitted,
SLADDEN ENGINEERING



Brett L. Anderson
Principal Engineer

SER/gvm

Copies: 4/ Addressee

GEOTECHNICAL INVESTIGATION
PROPOSED MIXED USE INDUSTRIAL DEVELOPMENT
TENTATIVE PARCEL MAPS 32705 & 32706
LITTLE MORONGO ROAD AND 15TH AVENUE
DESERT HOT SPRINGS, CALIFORNIA

-Prepared By-

Sladden Engineering

39-725 Garand Lane, Suite G
Palm Desert, California 92211
(760) 772-3893

Sladden Engineering

6782 Stanton Ave., Suite A, Buena Park, CA 90621 (714) 523-0952 Fax (714) 523-1369
39-725 Garand Ln., Suite G, Palm Desert, CA 92211 (760) 772-3893 Fax (760) 772-3895

September 2, 2004

Project No. 544-4433
04-09-614

MacArthur Engineering and Development
P.O. Box 580267
North Palm Springs, California 92258

Attention: Mr. Wally Green

Project: Tentative Parcel Maps 32705 & 32706
SEC Little Morongo Road & 15th Avenue
Desert Hot Springs, California

Subject: Geotechnical Investigation

Presented herewith is the report of our Geotechnical Investigation conducted at the site of the proposed approximately 115 acre industrial development to be located on the southeast corner of Little Morongo Road & 15th Avenue in the City of Desert Hot Springs, California. The investigation was performed in order to provide recommendations for site preparation and to assist in foundation design for the proposed residential structures.

This report presents the results of our field investigation and laboratory testing along with conclusions and recommendations for foundation design and site preparation. This report completes our original scope of services as outlined in our proposal dated June 28, 2004.

We appreciate the opportunity to provide service to you on this project. If you have any questions regarding this report, please contact the undersigned

Respectfully submitted,
SLADDEN ENGINEERING



Brett L. Anderson
Principal Engineer

SER/mk

Copies: 6/ MacArthur Engineering and Development

GEOTECHNICAL INVESTIGATION
PROPOSED MIXED USE DEVELOPMENT
TENTATIVE PARCEL MAPS 32705 & 32706
SEC LITTLE MORONGO ROAD AND 15TH AVENUE
DESERT HOT SPRINGS, CALIFORNIA

September 2, 2004

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APPENDIX A - Site Plan and Boring Logs
Field Exploration

APPENDIX B - Laboratory Testing
Laboratory Test Results

APPENDIX C - 1997 UBC Seismic Design Criteria

INTRODUCTION

This report presents the results of our Geotechnical Investigation performed in order to provide recommendations for the design and construction of the proposed mixed use industrial development. The approximately 115-acre project site is located on the southeast corner of Little Morongo Road and 15th Avenue in the City of Desert Hot Springs, California. The proposed development will include commercial and industrial buildings along with various site improvements. The associated site improvements will include paved roadways, concrete driveways, concrete walkways, various underground utilities, and landscape areas.

SCOPE OF WORK

The purpose of our investigation was to determine certain engineering characteristics of the near surface soils on the site in order to develop recommendations for residential foundation design and site preparation. Our investigation included field exploration, laboratory testing, engineering analysis and the preparation of this report. Evaluation of environmental issues or hazardous wastes was not within the scope of services provided. Our investigation was performed in accordance with contemporary geotechnical engineering principles and practice. We make no other warranty, either express or implied.

PROJECT DESCRIPTION

The approximately 115-acre project site is located on the southeast corner of Little Morongo Road and 15th Avenue in the City of Desert Hot Springs, California. It is our understanding that the proposed commercial and industrial buildings will be of relatively lightweight reinforced concrete tilt-up, reinforced masonry or steel frame construction and will be supported by conventional shallow spread footings and concrete slabs on grade. The associated site improvements will include paved roadways, concrete walkways and driveways, landscape areas and various underground utilities.

The project site is presently vacant and the ground surface is covered with scattered desert brush, weeds and minor debris. The project site has an overall downward slope to the south. The southern property boundary is formed by Avenue 16 and the northern property boundary is formed by Avenue 15. Little Morongo Road forms the western property boundary and the property to the west remains vacant. There are existing underground and overhead utilities along the nearby streets. There is a noticeable natural drainage course trending the southwestern portion of the site.

Based upon our previous experience with lightweight concrete tilt-up, reinforced masonry and steel frame structures, we expect that isolated column loads will be less than 80 kips and wall loading will be less than 4.0 kips per linear foot. Grading is expected to include cuts and fills to match the nearby elevations. To construct elevated building pads and to accommodate site drainage. This does not include removal and recompaction of the bearing soils within the building areas. If the anticipated foundation loading or site grading varies substantially from that assumed, the recommendations included in this report should be reevaluated.

SUBSURFACE CONDITIONS

The site is underlain primarily by slightly silty fine to coarse-grained alluvial sands with gravel and cobbles. The alluvial sands were fairly uniform in composition and contained varying amounts of gravel and cobbles. In general, the site soils are somewhat loose near the surface but density generally increases with depth. The site soils were found to be dry throughout the depth of our exploratory borings.

Laboratory classification testing indicates that the near surface soils consist primarily of slightly silty fine to coarse-grained sands with varying amounts of gravel and cobbles. The presence of cobbles resulted in shallow refusal within several of our borings. Expansion testing indicates that the surface soils are non-expansive and fall within the "very low" expansion category in accordance with the Uniform Building Code classification system. The somewhat loose and dry conditions suggest that the near surface native soils may be susceptible to detrimental settlements due to the anticipated foundation loading and the introduction of water.

Groundwater was not encountered within our borings and is expected to be in excess of 100 feet below the existing ground surface within the vicinity of the site. Groundwater should not be a factor in foundation design or construction.

CONCLUSIONS AND RECOMMENDATIONS

Based upon our field and laboratory investigation, it is our opinion that the proposed mixed-use commercial/industrial development is feasible from a soil mechanic's standpoint provided that the recommendations included in this report are considered in building foundation design and site preparation. Due to the somewhat loose and potentially compressible conditions of some of the near surface soils, remedial grading including overexcavation and recompaction or compaction in-place is recommended for the proposed building areas. We recommend that remedial grading within the proposed building areas include recompaction of the primary foundation bearing soils in order to provide a uniform mat of compacted soils beneath the building foundations. Specific recommendations for site preparation are presented in the Site Grading section of this report.

Groundwater was not encountered within our borings and groundwater is expected to be in excess of 100 feet below the existing ground surface in the vicinity of the site. Due to the depth to groundwater, specific liquefaction analyses were not performed. Based upon the depth to groundwater, the potential for liquefaction and the related surficial affects of liquefaction impacting the site are considered negligible.

The site is located within an active seismic area of Southern California within less than 1 kilometer of the San Andreas fault system. Strong ground motion resulting from earthquake activity along the nearby fault systems is likely to impact the site during the anticipated lifetime of the structures. Structures should be designed by professionals familiar with the geologic and seismic setting of the site. As a minimum, structure design should conform with Uniform Building Code (UBC) requirements for Seismic Zone 4. Pertinent seismic design parameters as included within the 1997 UBC are summarized in Appendix C.

Caving did occur within each of our exploratory borings and the surface soils will be susceptible to caving within deeper excavations. All excavations should be constructed in accordance with the normal CalOSHA excavation criteria. On the basis of our observations of the materials encountered, we anticipate that the subsoils will conform to those described by CalOSHA as Type C. Soil conditions should be verified in the field by a "Competent person" employed by the Contractor.

The surface soils encountered during our investigation were found to be non-expansive. Laboratory testing indicated an Expansion Index of 0 that corresponds with the "very low" category in accordance with UBC Standard 18-2. If imported soils are to be used during grading, they should have an Expansion Index of less than 20.

The following recommendations present more detailed design criteria that have been developed on the basis of our field and laboratory investigation.

Foundation Design: The results of our investigation indicate that either conventional shallow continuous footings or isolated pad footings, which are supported upon properly recompacted soils, may be expected to provide satisfactory support for the proposed industrial structures. Recompaction should be performed as described in the Site Grading Section of this report.

Footings should extend at least 12 inches beneath lowest adjacent grade. Isolated square or rectangular footings at least 2 feet square may be designed using an allowable bearing value of 2000 pounds per square foot. Continuous footings at least 12 inches wide may be designed using an allowable bearing value of 1800 pounds per square foot. Allowable increases of 200 psf for each additional 1 foot of width and 250 psf for each additional 6 inches of depth may be utilized if desired. The maximum allowable bearing pressure should be 3000 psf. The allowable bearing pressures are for dead and frequently applied live loads and may be increased by 1/3 to resist wind, seismic or other transient loading.

Care should be taken to see that bearing soils are not allowed to become saturated from the ponding of rainwater or irrigation. Drainage from the building areas should be rapid and complete.

The recommendations made in the preceding paragraphs are based on the assumption that all footings will be supported upon properly compacted soil. All grading shall be performed under the testing and inspection of the Soils Engineer or his representative. Prior to the placement of concrete, we recommend that the footing excavations be inspected in order to verify that they extend into compacted soil and are free of loose and disturbed materials.

Settlements: Settlements may result from the anticipated foundation loads. These estimated ultimate settlements are calculated to be a maximum of 1 inch when using the recommended bearing values. As a practical matter, differential settlements between footings can be assumed as one-half of the total settlement.

Lateral Design: Resistance to lateral loads can be provided by a combination of friction acting at the base of the slabs or foundations and passive earth pressure along the sides of the foundations. A coefficient of friction of 0.45 between soil and concrete may be used with dead load forces only. A passive earth pressure of 300 pounds per square foot, per foot of depth, may be used for the sides of footings that are poured against properly compacted native soils.

Passive earth pressure should be ignored within the upper 1 foot except where confined (such as beneath a floor slab). When used in combination, either the passive resistance or the coefficient of friction should be reduced by one-third.

Retaining Walls: Retaining walls may be required to accomplish the proposed construction. Cantilever retaining walls may be designed using "active" pressures. Active pressures may be estimated using an equivalent fluid weight of 35 pcf for native backfill soils with level free-draining backfill conditions.

For walls that are restrained, "at rest" pressures should be utilized in design. At rest pressures may be estimated using an equivalent fluid weight of 55 pcf for native backfill soils with level free-draining backfill conditions.

Expansive Soils: Due to the prominence of non-expansive soils on the site, special expansive soil design criteria should not be necessary for the design of foundations and concrete slabs-on-grade. Final design criteria should be established by the Structural Engineer.

Concrete Slabs-on-Grade: All surfaces to receive concrete slabs-on-grade should be underlain by recompacted soils as described in the Site Grading Section of this report. Where slabs are to receive moisture sensitive floor coverings or where dampness of the floor slab is not desired, we recommend the use of an appropriate vapor barrier. Vapor barriers should be protected by sand in order to reduce the possibility of puncture and to aid in obtaining uniform concrete curing.

Reinforcement of slabs-on-grade in order to resist expansive soil pressures may not be required however, reinforcement will have a beneficial effect in containing cracking due to concrete shrinkage. Temperature and shrinkage related cracking should be anticipated in all concrete slabs-on-grade. Slab reinforcement and the spacing of control joints should be determined by the Structural Engineer.

Soluble Sulfates: The soluble sulfate concentrations of the surface soils were determined to be less than 66 parts per million (ppm). This is within the usual allowable limits for the use of Type II cement and the use of Type V cement or special sulfate resistant concrete mixes should not be necessary.

Shrinkage and Subsidence: Volumetric shrinkage of the material that is excavated and replaced as controlled compacted fill should be anticipated. We estimate that this shrinkage could vary from 10 to 15 percent. Subsidence of the surfaces that are scarified and compacted should be between 0.1 and 0.2 tenths of a foot. This will vary depending upon the type of equipment used, the moisture content of the soil at the time of grading and the actual degree of compaction attained.

These values for shrinkage and subsidence are exclusive of losses that will occur due to the stripping of the organic material from the site, the removal of oversized materials and the removal of debris, trees and other subsurface obstructions.

General Site Grading: All grading should be performed in accordance with the grading ordinance of The City of Desert Hot Springs and/or Riverside County, California. The following recommendations have been developed on the basis of our field and laboratory testing:

1. **Clearing and Grubbing:** Proper clearing of any existing vegetation, associated root systems, and debris will be very important. All surfaces to receive compacted fill should be cleared of roots, vegetation, debris, and other unsuitable materials that should be removed from the site. Soils that are disturbed due to the removal of the surface vgetation and debris should be replaced as controlled compacted fill under the direction of the Soils Engineer.

2. **Preparation of Building Areas:** In order to provide firm and uniform bearing conditions we recommend overexcavation and recompaction throughout the building and foundation areas. The building areas should be overexcavated to a depth of at least 2 feet below existing grade or 2 feet below the bottom of the footings, whichever is deeper. The exposed surface should then be moisture conditioned and compacted so that a minimum of 90 percent relative compaction is attained. Fill material may then be placed as recommended in Item 4 below.

   Because the site soils are granular in nature, we expect that compaction may be attained to a depth of 2 or 3 feet with proper moisture conditioning and compaction from the surface with heavy grading equipment. If the recommended depth of compaction can be attained in this manner, overexcavation may not be necessary.

3. **Preparation of Surfaces to Receive Compacted Fill:** Other areas to receive compacted fill should be brought to near optimum moisture content and compacted to a minimum of 90 percent relative compaction.

4. **Placement of Compacted Fill:** Fill materials consisting of on-site soils or approved imported granular soils, should be spread in thin lifts, and compacted at near optimum moisture content to a minimum of 90 percent relative compaction. Imported material shall have an Expansion Index not exceeding 20. The contractor shall notify the Soils Engineer at least 48 hours in advance of importing soils in order to provide sufficient time for the evaluation of proposed import materials.

   The contractor shall be responsible for delivering material to the site that complies with the project specifications. Approval by the Soils Engineer will be based upon material delivered to the site and not the preliminary evaluation of import sources.

Our observations of the material encountered during our investigation indicate that compaction will be most readily obtained by means of heavy rubber-wheeled equipment and/or vibratory compactors. At the time of our investigation, the subsoils were found to be very dry. A more uniform and near optimum moisture content should be maintained during recompaction and fill placement.

5. **Preparation of Slab and Paving Areas:** All surfaces to receive asphalt concrete paving or concrete slabs-on-grade, should be underlain by a minimum compacted fill thickness of 12 inches. This may be accomplished by a combination of scarification and recompaction of the surface soils and placement of the fill material as controlled compacted fill. Compaction of the slab and pavement areas should be to a minimum of 90 percent relative compaction.

6. **Testing and Inspection:** During grading tests and observations should be performed by the Soils Engineer or his representative in order to verify that the grading is being performed in accordance with the project specifications. Field density testing shall be performed in accordance with acceptable ASTM test methods. The minimum acceptable degree of compaction should be 90 percent of the maximum dry density as obtained by the ASTM D1557-91 test method. Where testing indicates insufficient density, additional compactive effort shall be applied until retesting indicates satisfactory compaction.

GENERAL

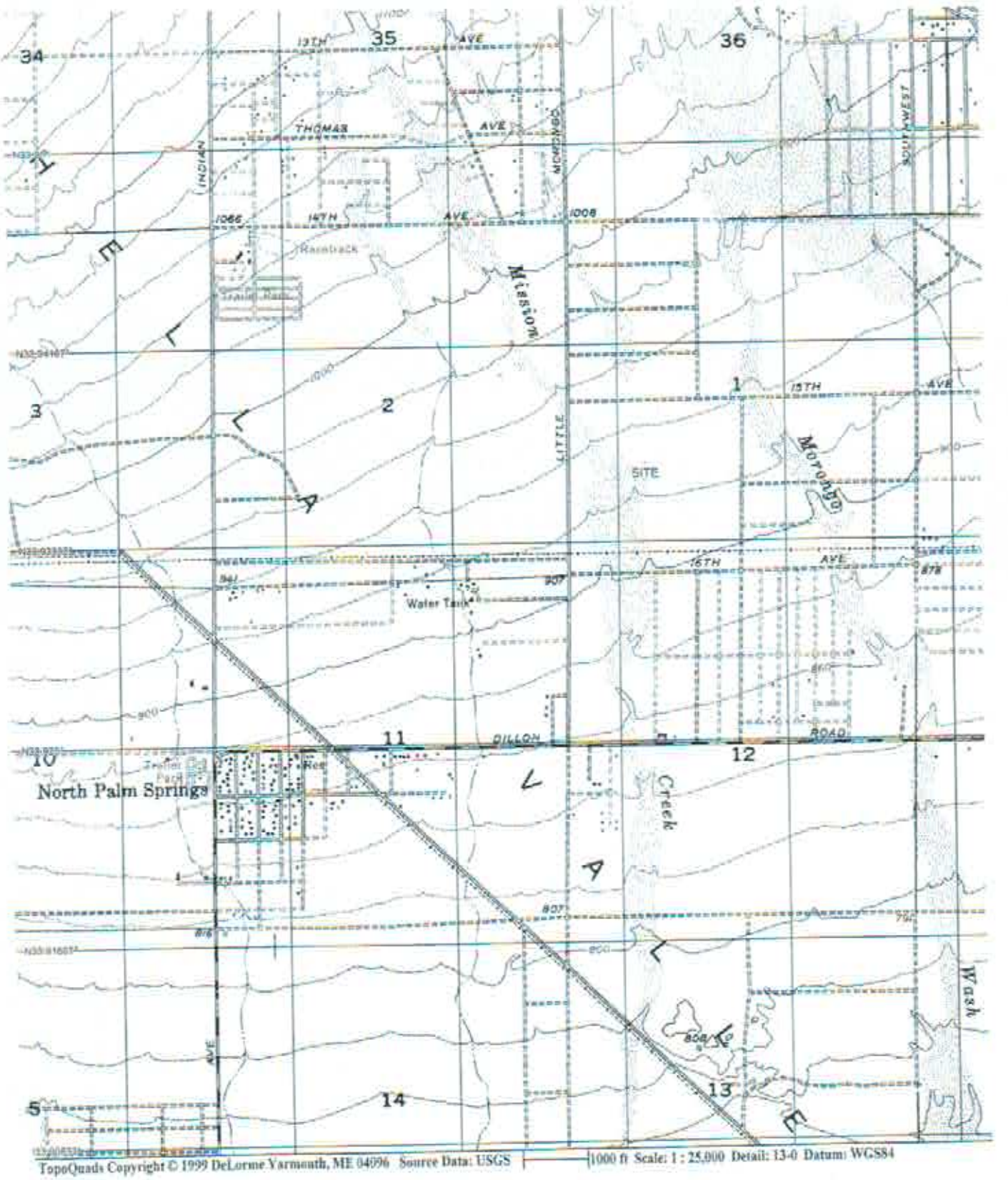
The findings and recommendations presented in this report are based upon an interpolation of the soil conditions between the exploratory boring locations and extrapolation of these conditions throughout the proposed building area. Should conditions encountered during grading appear different than those indicated in this report, this office should be notified.

This report is considered to be applicable for use by MacArthur Engineering for the specific site and project described herein. The use of this report by other parties or for other projects is not authorized. The recommendations of this report are contingent upon monitoring of the grading operation by a representative of Sladden Engineering. All recommendations are considered to be tentative pending our review of the grading operation and additional testing, if indicated. If others are employed to perform any soil testing, this office should be notified prior to such testing in order to coordinate any required site visits by our representative and to assure indemnification of Sladden Engineering.

Our investigation was conducted prior to the completion of plans for the project. We recommend that a pre-job conference be held on the site prior to the initiation of site grading. The purpose of this meeting will be to assure a complete understanding of the recommendations presented in this report as they apply to the actual grading performed.

APPENDIX A

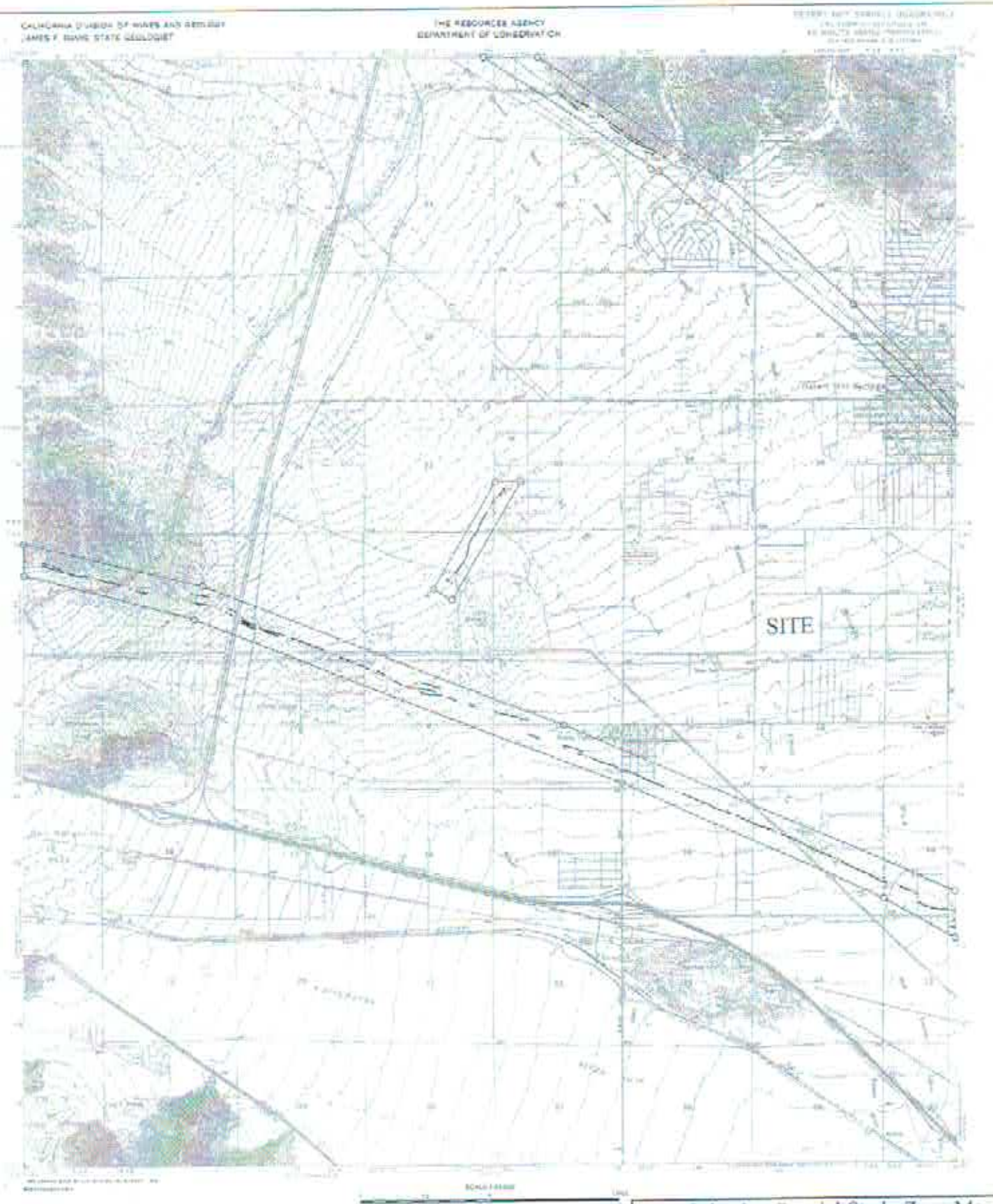
Site Plan
Boring Logs



TopoQuads Copyright © 1999 DeLorme Yarmouth, ME 04096 Source Data: USGS 1000 ft Scale: 1 : 25,000 Detail: 13-0 Datum: WGS84

North

USGS Map	
Proposed Residential Development SE C Little Morongo Road & 15th Avenue Desert Hot Springs, California	
Sladden Engineering	
Project Number: 544-4433	Date: 8-29-04



North

Seismic - Special Study Zone Map	
Proposed Residential Development SE C Little Morongo Road & 15th Avenue Desert Hot Springs, California	
Sladden Engineering	
Project Number: 544-4433	Date: 8-29-04

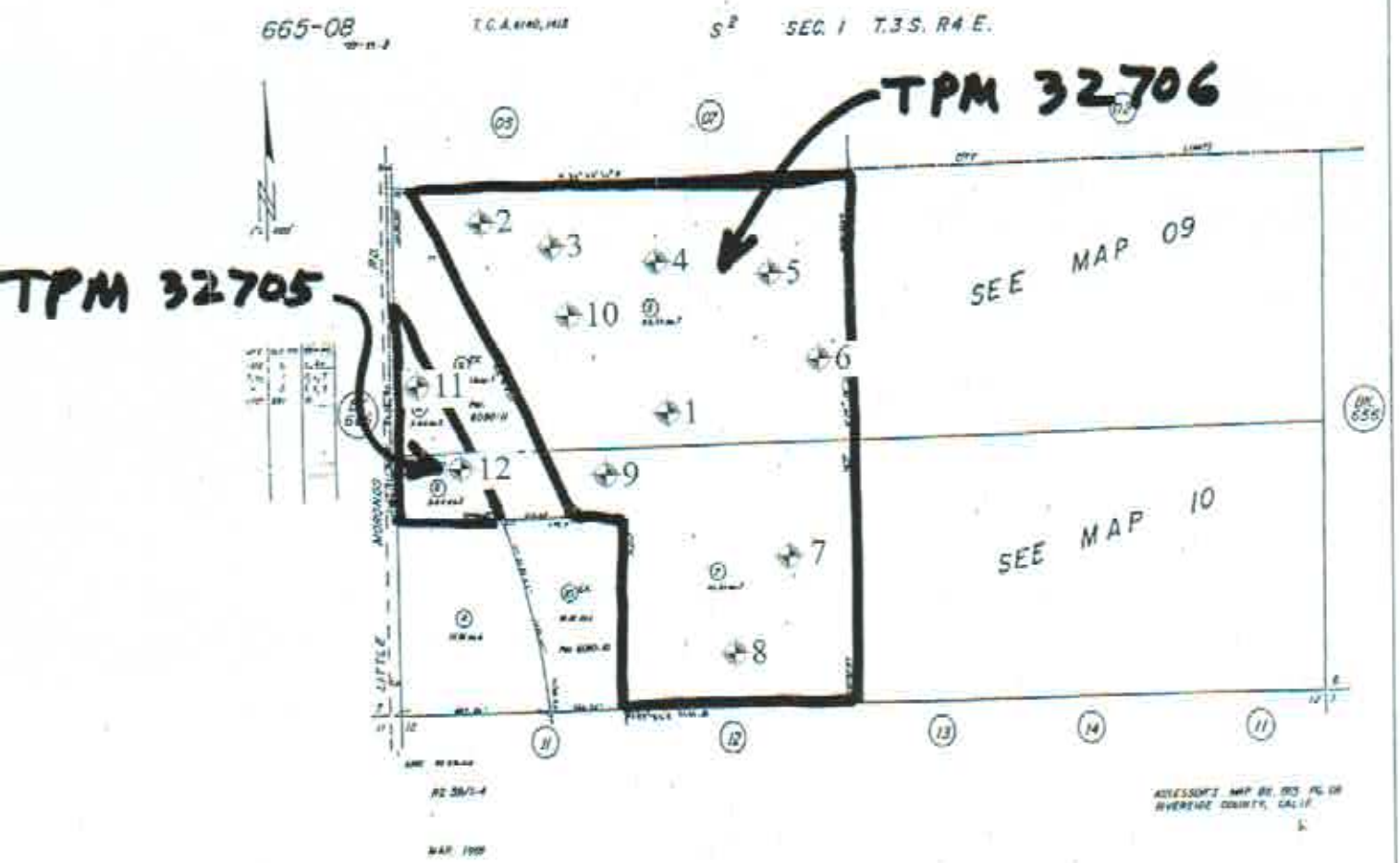


Seismic - Special Study Zone Map

Proposed Residential Development
SE C Little Morongo Road & 15th Avenue
Desert Hot Springs, California

Sladden Engineering

Project Number: 544-4433 | Date: 8-2°



North

Approximate Boring Locations

Boring Location Map	
Proposed Residential Development SE C Little Morongo Road & 15th Avenue Desert Hot Springs, California	
Sladden Engineering	
Project Number: 544-4433	Date: 8-29-04

APPENDIX A

FIELD EXPLORATION

For our field investigation, 12 exploratory borings were excavated on July 29, 2004 using a truck mounted hollow stem auger rig (Mobile B53) in the approximate locations indicated on the site plan included in this appendix. Continuous logs of the materials encountered were made on the site by a representative of Sladden Engineering. Boring logs are included in this appendix.

Representative undisturbed samples were obtained within our borings by driving a thin-walled steel penetration sampler (California split spoon sampler) or a Standard Penetration Test (SPT) sampler with a 140-pound hammer dropping approximately 30 inches (ASTM D1586). The number of blows required to drive the samplers 18 inches was recorded in 6-inch increments and blowcounts are indicated on the boring logs.

The California samplers are 3.0 inches in diameter, carrying brass sample rings having inner diameters of 2.5 inches. The standard penetration samplers are 2.0 inches in diameter with an inner diameter of 1.5 inches. Undisturbed samples were removed from the sampler and placed in moisture sealed containers in order to preserve the natural soil moisture content. Bulk samples were obtained from the excavation spoils and samples were then transported to our laboratory for further observations and testing.

Proposed Residential Development
SEC Little Morongo Road & 15th Avenue / Desert Hot Springs, California

Date: 7-29-04 Boring No. 1 Job No.: 544-4433

Depth (in feet)	Symbol	Core	Blows/6 in.	DESCRIPTION	Soil Type	Unit Dry Wt. (pcf)	% Moisture	% Relative Compaction	REMARKS
0				Sand: Brown, fine to coarse grained with scattered gravel	SP				
5		■	50-6"	" "	"	---	0	---	4% passing #200
10				■ Standard Penetration Sample					Cobble/Boulder Refusal @ 8' No Bedrock No Groundwater
15									
20									
25									
30									
35									
40									
45									
50									
55									

Note: The stratification lines represent the approximate boundaries between the soil types; the transitions may be gradual.

Proposed Residential Development
SEC Little Morongo Road & 15th Avenue / Desert Hot Springs, California

Date: 7-29-04 — Boring No. 2 — Job No.: 544-4433

Depth (in feet)	Symbol	Core	Blows/6 in.	DESCRIPTION	Soil Type	Unit Dry Wt. (pcf)	% Moisture	% Relative Compaction	REMARKS
0				Sand: Brown, fine to coarse grained with scattered gravel	SP				
5		■	15/26/30	" "	"	---	1	---	4% passing #200
10		■	16/34/40	" "	"	---	1	---	3% passing #200
15		■	20/28/34	" "	"	---	1	---	3% passing #200
20		■	60-6"	" "	"				Unrecovered Sample
25				■ Standard Penetration Sample					Cobble/Boulder Refusal @ 20.5' No Bedrock No Groundwater
30									
35									
40									
45									
50									
55									

Note: The stratification lines represent the approximate boundaries between the soil types; the transitions may be gradual.

Proposed Residential Development
SEC Little Morongo Road & 15th Avenue / Desert Hot Springs, California

Date: 7-29-04 — Boring No. 3 — Job No.: 544-4433

Depth (in feet)	Symbol	Core	Blows/6 in.	DESCRIPTION	Soil Type	Unit Dry Wt. (pcf)	% Moisture	% Relative Compaction	REMARKS
0				Sand: Brown, fine to coarse grained	SP				
5		■	50-6"	" "	"	---	0	---	6% passing #200
10		■	24/36/50	Sand: Brown, fine to coarse grained with scattered gravel	SP	---	0	---	5% passing #200 Cobbles @ 13 - 14'
15		■	50-6"	" "	"	---	0	---	6% passing #200
				■ Standard Penetration Sample					Cobble/Boulder Refusal @ 16' No Bedrock No Groundwater
20									
25									
30									
35									
40									
45									
50									
55									

Note: The stratification lines represent the approximate boundaries between the soil types; the transitions may be gradual.

Proposed Residential Development
SEC Little Morongo Road & 15th Avenue / Desert Hot Springs, California

Date: 7-29-04 Boring No. 4 Job No.: 544-4433

Depth (in feet)	Symbol	Core	Blows/6 in.	DESCRIPTION	Soil Type	Unit Dry Wt. (pcf)	% Moisture	% Relative Compaction	REMARKS
0				Sand: Brown, fine to coarse grained with scattered gravel	SP				
5			13/30/50	Sand: Brown, fine to coarse grained with gravel	SP	---	1	---	5% passing #200
10			12/18/24	Sand: Brown, fine to coarse grained	SP	---	0	---	6% passing #200
15			12/15/20	" "	"	---	1	---	7% passing #200
20			18/22/40	Sand: Brown, fine to coarse grained with gravel	SP	---	1	---	8% passing #200
25				Standard Penetration Sample					Total Depth = 21.5' No Bedrock No Groundwater
30									
35									
40									
45									
50									
55									

Note: The stratification lines represent the approximate boundaries between the soil types; the transitions may be gradual.

Proposed Residential Development
SEC Little Morongo Road & 15th Avenue / Desert Hot Springs, California

Date: 7-29-04 — Boring No. 5 — Job No.: 544-4433

Depth (in feet)	Symbol	Core	Blows/6 in.	DESCRIPTION	Soil Type	Unit Dry Wt. (pcf)	% Moisture	% Relative Compaction	REMARKS
0				Sand: Brown, fine to coarse grained	SP				
5		■	8/10/12	" "	"	---	1	---	8% passing #200
10		■	18/50-5"	Sand: Brown, fine to coarse grained with scattered gravel	SP	---	0	---	6% passing #200
15		■	12/15/38	" "	"	---	1	---	5% passing #200
20		■	44/50-4"	Sand: Brown, fine to coarse grained with gravel	SP				Unrecovered Sample
25				■ Standard Penetration Sample					Total Depth = 21' No Bedrock No Groundwater
30									
35									
40									
45									
50									
55									

Note: The stratification lines represent the approximate boundaries between the soil types; the transitions may be gradual.

Proposed Residential Development
SEC Little Morongo Road & 15th Avenue / Desert Hot Springs, California

Date: 7-29-04 Boring No. 6 Job No.: 544-4433

Depth (in feet)	Symbol	Core	Blows/6 in.	DESCRIPTION	Soil Type	Unit Dry Wt. (pcf)	% Moisture	% Relative Compaction	REMARKS
0				Sand: Brown, fine to coarse grained with gravel	SP				
5		■	15/25/20	" "	"	---	1	---	6% passing #200
10		■	11/30/40	" "	"	---	1	---	9% passing #200
15		■	50-4"	" "	"	---	1	---	8% passing #200
20		■	44/50-5"	" "	"	---	1	---	7% passing #200
25				■ Standard Penetration Sample					Total Depth = 21' No Bedrock No Groundwater
30									
35									
40									
45									
50									
55									Note: The stratification lines represent the approximate boundaries between the soil types; the transitions may be gradual.

Proposed Residential Development
SEC Little Morongo Road & 15th Avenue / Desert Hot Springs, California

Date: 7-29-04 Boring No. 7 Job No.: 544-4433

Depth (in feet)	Symbol	Core	Blows/6 in.	DESCRIPTION	Soil Type	Unit Dry Wt. (pcf)	% Moisture	% Relative Compaction	REMARKS
0				Sand: Brown, fine to coarse grained with gravel	SP				
5		■	25/50-6"	" "	"	---	1	---	6% passing #200
10		■	40/50-5"	" "	"	---	1	---	5% passing #200
15				■ Standard Penetration Sample					Cobble/Boulder Refusal @ 11' No Bedrock No Groundwater
20									
25									
30									
35									
40									
45									
50									
55									

Note: The stratification lines represent the approximate boundaries between the soil types; the transitions may be gradual.

Proposed Residential Development
SEC Little Morongo Road & 15th Avenue / Desert Hot Springs, California

Date: 7-29-04 — Boring No. 8 — Job No.: 544-4433

Depth (in feet)	Symbol	Core	Blows/6 in.	DESCRIPTION	Soil Type	Unit Dry Wt. (pcf)	% Moisture	% Relative Compaction	REMARKS
0				Sand: Brown, fine to coarse grained with gravel	SP				
5		■	15/40/34	" "	"	---	0	---	6% passing #200
10				■ Standard Penetration Sample					Cobble/Boulder Refusal @ 9' No Bedrock No Groundwater
15									
20									
25									
30									
35									
40									
45									
50									
55									

Note: The stratification lines represent the approximate boundaries between the soil types; the transitions may be gradual.

Proposed Residential Development
SEC Little Morongo Road & 15th Avenue / Desert Hot Springs, California

Date: 7-29-04 — Boring No. 9 — Job No.: 544-4433

Depth (in feet)	Symbol	Core	Blows/6 in.	DESCRIPTION	Soil Type	Unit Dry Wt. (pcf)	% Moisture	% Relative Compaction	REMARKS
0				Sand: Brown, fine to coarse grained, trace gravel	SP				
5		■	9/18/25	" "	"	---	1	---	7% passing #200
10		■	22/50-5"	Sand: Brown, fine to coarse grained with gravel	SP	---	1	---	8% passing #200
15		■	19/20/20	" "	"	---	1	---	10% passing #200
20				■ Standard Penetration Sample					Cobble/Boulder Refusal @ 19' No Bedrock No Groundwater
25									
30									
35									
40									
45									
50									
55									Note: The stratification lines represent the approximate boundaries between the soil types; the transitions may be gradual.

Proposed Residential Development
SEC Little Morongo Road & 15th Avenue / Desert Hot Springs, California

Date: 7-29-04 | Boring No. 10 | Job No.: 544-4433

Depth (in feet)	Symbol	Core	Blows/6 in.	DESCRIPTION	Soil Type	Unit Dry Wt. (pcf)	% Moisture	% Relative Compaction	REMARKS
0				Sand: Brown, fine to coarse grained with gravel	SP				
5		■	12/15/17	" "	"	---	1	---	6% passing #200
10		■	22/50-5"	" "	"	---	1	---	7% passing #200
15		■	60-6"	" "	"				Unrecovered Sample
20		■	45/50-5"	" "	"				Unrecovered Sample
25		■	22/36/40	" "	"	---	1	---	8% passing #200
30		■	50-3"	" "	"	---	1	---	6% passing #200
35				■ Standard Penetration Sample					Cobble/Boulder Refusal @ 35.5' No Bedrock No Groundwater
40									
45									
50									
55									Note: The stratification lines represent the approximate boundaries between the soil types; the transitions may be gradual.

Proposed Residential Development
SEC Little Morongo Road & 15th Avenue / Desert Hot Springs, California

Date: 7-29-04 Boring No. 11 Job No.: 544-4433

Depth (in feet)	Symbol	Core	Blows/6 in.	DESCRIPTION	Soil Type	Unit Dry Wt. (pcf)	% Moisture	% Relative Compaction	REMARKS
0				Sand: Brown, fine to coarse grained, trace gravel	SP				
5				Sand: Brown, fine to coarse grained with scattered gravel	SP				Scattered cobbles @ 7 - 12'
10				Sand: Brown, fine to coarse grained with gravel	SP				
15									Total Depth = 15' No Bedrock No Groundwater
20									
25									
30									
35									
40									
45									
50									
55									

Note: The stratification lines represent the approximate boundaries between the soil types; the transitions may be gradual.

Proposed Residential Development
SEC Little Morongo Road & 15th Avenue / Desert Hot Springs, California

Date: 7-29-04 — Boring No. 12 — Job No.: 544-4433

Depth (in feet)	Symbol	Core	Blows/6 in.	DESCRIPTION	Soil Type	Unit Dry Wt. (pcf)	% Moisture	% Relative Compaction	REMARKS
0				Sand: Brown, fine to coarse grained, trace gravel	SP				
5				" "	"				
10				Sand: Brown, fine to coarse grained with scattered gravel	SP				
15									Total Depth = 15' No Bedrock No Groundwater
20									
25									
30									
35									
40									
45									
50									
55									

Note: The stratification lines represent the approximate boundaries between the soil types; the transitions may be gradual.

APPENDIX B

Laboratory Testing
Laboratory Test Results

APPENDIX B

LABORATORY TESTING

Representative bulk and relatively undisturbed soil samples were obtained in the field and returned to our laboratory for additional observations and testing. Laboratory testing was generally performed in two phases. The first phase consisted of testing in order to determine the compaction of the existing natural soil and the general engineering classifications of the soils underlying the site. This testing was performed in order to estimate the engineering characteristics of the soil and to serve as a basis for selecting samples for the second phase of testing. The second phase consisted of soil mechanics testing. This testing including consolidation, shear strength and expansion testing was performed in order to provide a means of developing specific design recommendations based on the mechanical properties of the soil.

CLASSIFICATION AND COMPACTION TESTING

Unit Weight and Moisture Content Determinations: Each undisturbed sample was weighed and measured in order to determine its unit weight. A small portion of each sample was then subjected to testing in order to determine its moisture content. This was used in order to determine the dry density of the soil in its natural condition. The results of this testing are shown on the Boring Logs.

Maximum Density-Optimum Moisture Determinations: Representative soil types were selected for maximum density determinations. This testing was performed in accordance with the ASTM Standard D1557-91, Test Method A. The results of this testing are presented graphically in this appendix. The maximum densities are compared to the field densities of the soil in order to determine the existing relative compaction to the soil. This is shown on the Boring Logs, and is useful in estimating the strength and compressibility of the soil.

Classification Testing: Soil samples were selected for classification testing. This testing consists of mechanical grain size analyses and Atterberg Limits determinations. These provide information for developing classifications for the soil in accordance with the Unified Classification System. This classification system categorizes the soil into groups having similar engineering characteristics. The results of this testing are very useful in detecting variations in the soils and in selecting samples for further testing.

SOIL MECHANIC'S TESTING

Direct Shear Testing: One bulk sample was selected for Direct Shear Testing. This testing measures the shear strength of the soil under various normal pressures and is used in developing parameters for foundation design and lateral design. Testing was performed using recompacted test specimens, which were saturated prior to testing. Testing was performed using a strain controlled test apparatus with normal pressures ranging from 800 to 2300 pounds per square foot.

Expansion Testing: One bulk sample was selected for Expansion testing. Expansion testing was performed in accordance with the UBC Standard 18-2. This testing consists of remolding 4-inch diameter by 1-inch thick test specimens to a moisture content and dry density corresponding to approximately 50 percent saturation. The samples are subjected to a surcharge of 144 pounds per square foot and allowed to reach equilibrium. At that point the specimens are inundated with distilled water. The linear expansion is then measured until complete.

Maximum Density/Optimum Moisture

ASTM D698/D1557

Project Number: 544-4433

August 30, 2004

Project Name: TPM 32905

ASTM D-1557 A
Rammer Type: Manual

Lab ID Number:

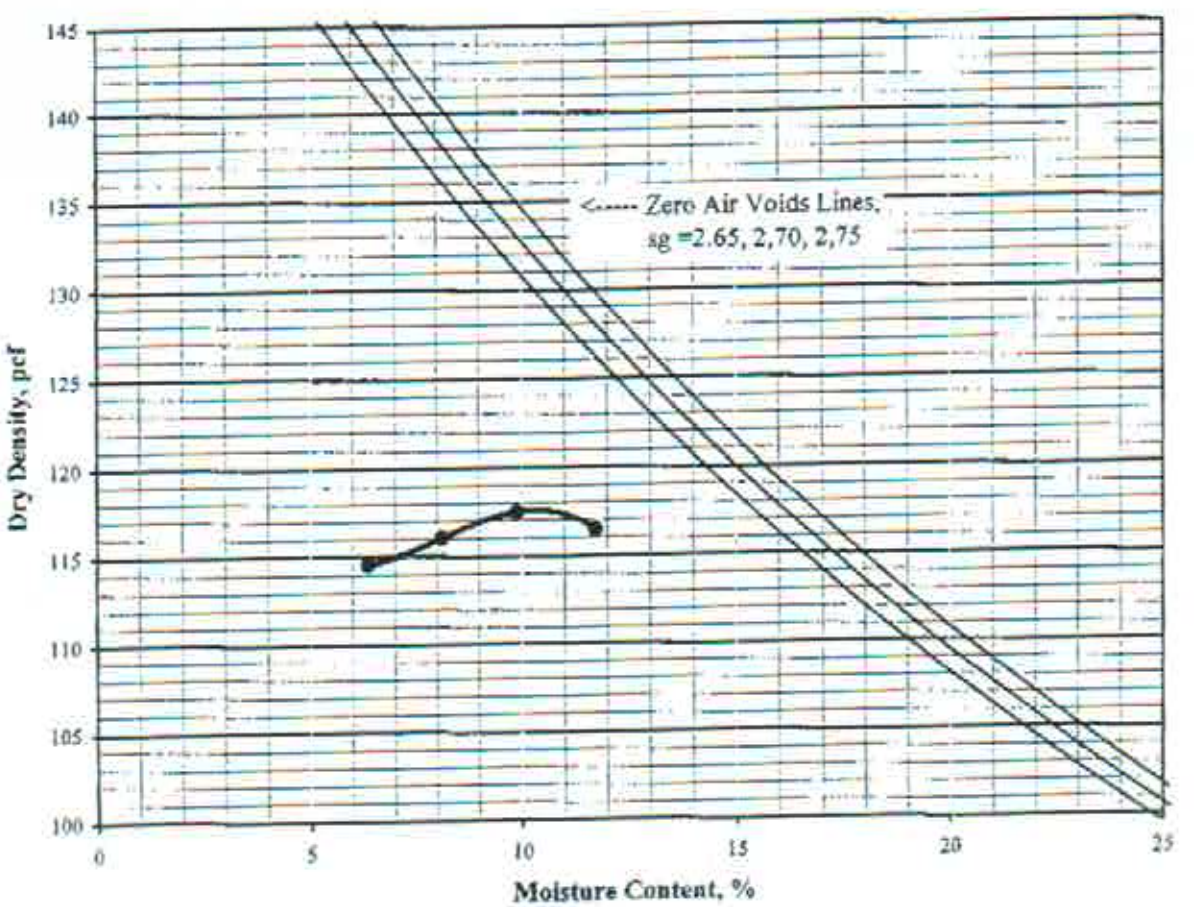
Sample Location: Bulk 12 @ 0-5'

Description: Sand

Maximum Density: 118 pcf

Optimum Moisture: 10%

Sieve Size	% Retained
3/4"	
3/8"	
#4	0.0



Gradation

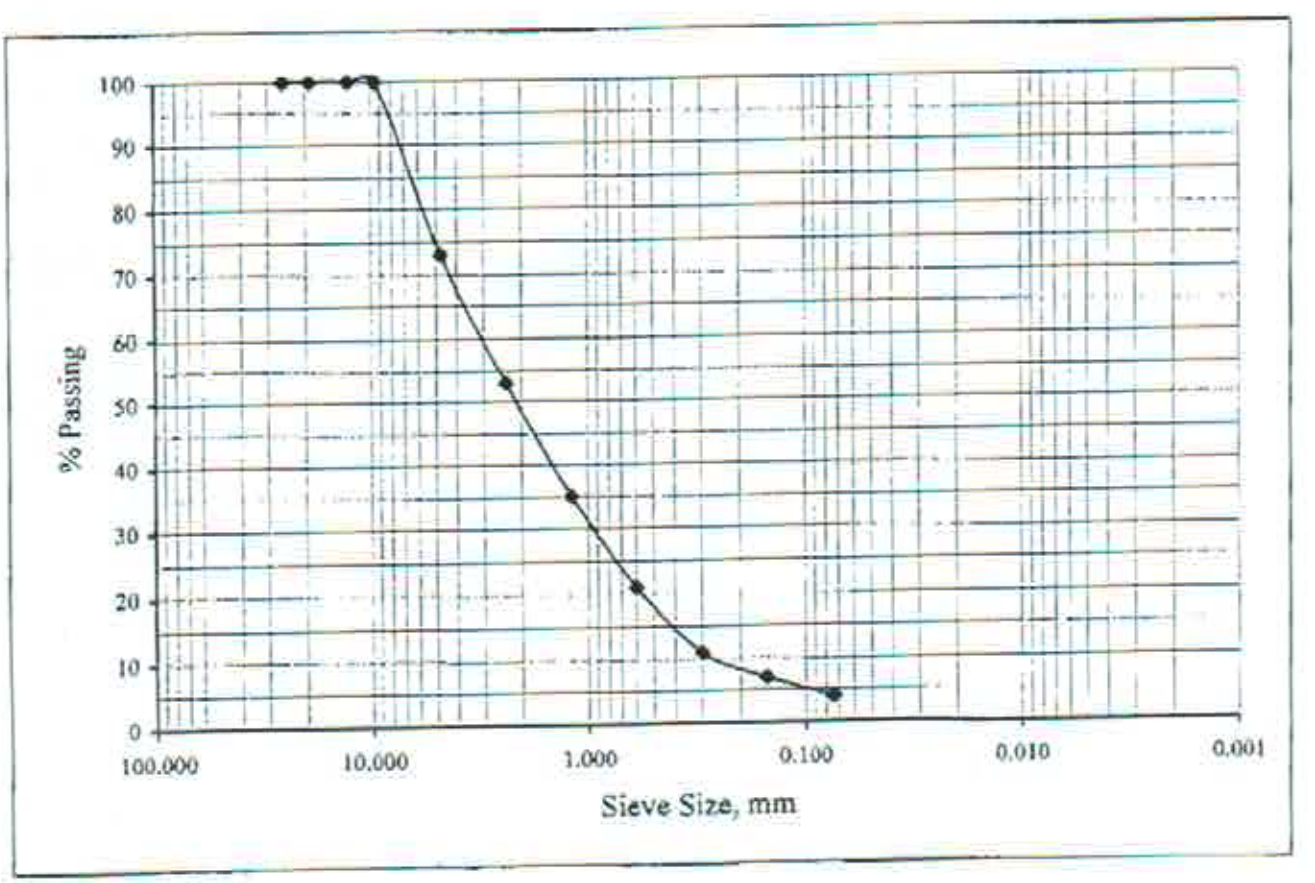
ASTM C117 & C136

August 30, 2004

Project Number: 544-4433
Project Name: TPM 32905

Sample ID: Boring 1 @ 5'

Sieve Size, in	Sieve Size, mm	Percent Passing
1"	25.4	100.0
3/4"	19.1	100.0
1/2"	12.7	100.0
3/8"	9.53	100.0
#4	4.75	73.0
#8	2.36	53.0
#16	1.18	35.0
#30	0.60	21.0
#50	0.30	11.0
#100	0.15	7.0
#200	0.074	4.0



Gradation

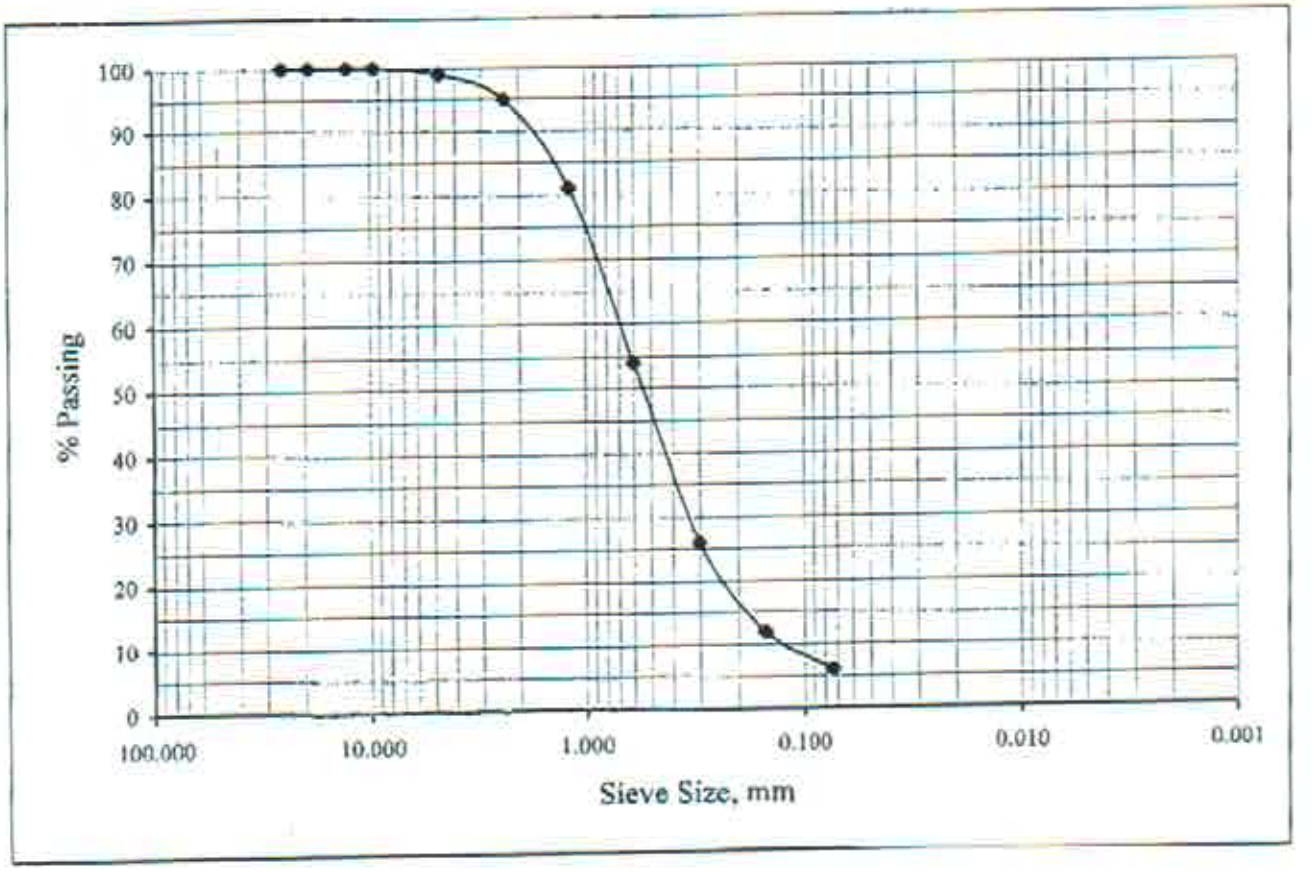
ASTM C117 & C136

Project Number: 544-4433
Project Name: TPM 32905

August 30, 2004

Sample ID: Bulk 12 @ 0-5'

Sieve Size, in	Sieve Size, mm	Percent Passing
1"	25.4	100.0
3/4"	19.1	100.0
1/2"	12.7	100.0
3/8"	9.53	100.0
#4	4.75	99.0
#8	2.36	95.0
#16	1.18	81.0
#30	0.60	54.0
#50	0.30	26.0
#100	0.15	12.0
#200	0.074	6.0



Expansion Index

ASTM D 4829/UBC 29-2

Job Number: 544-4433
Job Name: TPM 32905
Lab ID:
Sample ID: Bulk 12 @ 0-5'
Soil Description: Sand

Date: 8/30/2004
Tech: Jake

Wt of Soil + Ring:	595.0
Weight of Ring:	179.0
Wt of Wet Soil:	416.0
Percent Moisture:	8%

Wet Density, pcf:	126.0
Dry Denstiy, pcf:	116.7

% Saturation:	48.7

Expansion	**Rack #**	
Date/Time	8/31/2004	9:00 AM
Initial Reading	0.500	
Final Reading	0.500	

Expansion Index 0

(Final - Initial) x 1000

ANAHEIM TEST LABORATORY

3008 S. ORANGE AVENUE
SANTA ANA, CALIFORNIA 92707
PHONE (714) 549-7267

TO: SLADDEN ENGINEERING:
114. S. CALIFORNIA AVE.
BEAUMONT, CA. 92223

ATTN: BRETT/DAVE

DATE: 8/24/04

P.O. No. Chain of Custody

Shipper No.

Lab. No. A-5592

Specification:

Material: SOIL

PROJECT: #544-4433

BULK 12 @ 0-5'

ANALYTICAL REPORT

CORROSION SERIES
SUMMARY OF DATA

pH	SOLUBLE SULFATES per CA. 417 ppm	SOLUBLE CHORIDES per CA. 422 ppm	MIN. RESISTIVITY per CA. 643 ohm-cm
6.8	66	173	8,614

RESPECTFULLY SUBMITTED

POPPY BRIDGER Chief Chemist

FORM #2

APPENDIX C

1997 UBC Seismic Design Criteria

1997 UNIFORM BUILDING CODE SEISMIC DESIGN INFORMATION

The International Conference of Building Officials 1997 Uniform Building Code contains substantial revisions and additions to the earthquake engineering section in Chapter 16. Concepts contained in the code that will be relevant to construction of the proposed structures are summarized below.

Ground shaking is expected to be the primary hazard most likely to affect the site, based upon proximity to significant faults capable of generating large earthquakes. Major fault zones considered to be most likely to create strong ground shaking at the site are listed below.

Fault Zone	Approximate Distance From Site	Fault Type (1997 UBC)
San Andreas	<2 km	A
San Jacinto	40.0 km	A

Based on our field observations and understanding of local geologic conditions, the soil profile type judged applicable to this site is So, generally described as stiff or dense soil. The site is located within UBC Seismic Zone 4. The following table presents additional coefficients and factors relevant to seismic mitigation for new construction upon adoption of the 1997 code.

Seismic Source	Near-Source Acceleration Factor, N_a	Near-Source Velocity Factor, N_v	Seismic Coefficient C_a	Seismic Coefficient C_v
San Andreas	1.5	2.0	$0.44N_a$	$0.64N_v$
San Jacinto	1.0	1.0	$0.44N_a$	$0.64N_v$

```
**********
*        *
*  E Q F A U L T  *
*        *
*  Version 3.00  *
*        *
**********
```

DETERMINISTIC ESTIMATION OF
PEAK ACCELERATION FROM DIGITIZED FAULTS

JOB NUMBER: 544-4433

DATE: 08-30-2004

JOB NAME: NEC Little Morongo Road & 16th Avenue
Desert Hot Springs, California

CALCULATION NAME: Test Run Analysis

FAULT-DATA-FILE NAME: CDMGFLTE.DAT

SITE COORDINATES:
SITE LATITUDE: 33.9360
SITE LONGITUDE: 116.5233

SEARCH RADIUS: 100 mi

ATTENUATION RELATION: 5) Boore et al. (1997) Horiz. - SOIL (310)
UNCERTAINTY (M=Median, S=Sigma): M Number of Sigmas: 0.0
DISTANCE MEASURE: cd_2drp
SCOND: 0
Basement Depth: 5.00 km Campbell SSR: Campbell SHR:
COMPUTE PEAK HORIZONTAL ACCELERATION

FAULT-DATA FILE USED: CDMGFLTE.DAT

MINIMUM DEPTH VALUE (km): 0.0

EQFAULT SUMMARY

DETERMINISTIC SITE PARAMETERS

ABBREVIATED FAULT NAME	APPROXIMATE DISTANCE mi (km)	ESTIMATED MAX. EARTHQUAKE EVENT MAXIMUM EARTHQUAKE MAG. (Mw)	PEAK SITE ACCEL. g	EST. SITE INTENSITY MOD.MERC.
SAN ANDREAS - Southern	0.2(0.3)	7.4	0.702	XI
SAN ANDREAS - San Bernardino	0.2(0.3)	7.3	0.666	XI
SAN ANDREAS - Coachella	3.2(5.2)	7.1	0.470	X
BURNT MTN.	8.5(13.6)	6.4	0.195	VIII
PINTO MOUNTAIN	10.2(16.4)	7.0	0.235	IX
EUREKA PEAK	11.0(17.7)	6.4	0.163	VIII
LANDERS	16.8(27.1)	7.3	0.192	VIII
NORTH FRONTAL FAULT ZONE (East)	18.2(29.3)	6.7	0.160	VIII
EMERSON So. - COPPER MTN.	24.3(39.1)	6.9	0.118	VII
SAN JACINTO-ANZA	24.9(40.0)	7.2	0.135	VIII
SAN JACINTO-SAN JACINTO VALLEY	26.3(42.4)	6.9	0.111	VII
JOHNSON VALLEY (Northern)	26.7(43.0)	6.7	0.098	VII
NORTH FRONTAL FAULT ZONE (West)	28.3(45.6)	7.0	0.134	VIII
LENWOOD-LOCKHART-OLD WOMAN SPRGS	29.6(47.6)	7.3	0.125	VII
PISGAH-BULLION MTN.-MESQUITE LK	32.1(51.7)	7.1	0.105	VII
CALICO - HIDALGO	32.7(52.7)	7.1	0.104	VII
SAN JACINTO-COYOTE CREEK	33.1(53.3)	6.8	0.088	VII
HELENDALE - S. LOCKHARDT	36.0(58.0)	7.1	0.097	VII
SAN JACINTO-SAN BERNARDINO	41.3(66.5)	6.7	0.070	VI
CLEGHORN	45.8(73.7)	6.5	0.058	VI
ELSINORE-TEMECULA	47.3(76.1)	6.8	0.067	VI
ELSINORE-JULIAN	47.7(76.8)	7.1	0.078	VII
ELSINORE-GLEN IVY	51.4(82.8)	6.8	0.063	VI
EARTHQUAKE VALLEY	52.2(84.0)	6.5	0.053	VI
SAN JACINTO - BORREGO	54.2(87.3)	6.6	0.054	VI
CUCAMONGA	55.0(88.5)	7.0	0.080	VII
CHINO-CENTRAL AVE. (Elsinore)	60.3(97.1)	6.7	0.064	VI
BRAWLEY SEISMIC ZONE	62.0(99.8)	6.4	0.044	VI
SAN ANDREAS - 1857 Rupture	63.3(101.8)	7.8	0.090	VII
SAN ANDREAS - Mojave	63.3(101.8)	7.1	0.062	VI
WHITTIER	64.1(103.1)	6.8	0.053	VI
ELSINORE-COYOTE MOUNTAIN	67.7(109.0)	6.8	0.051	VI
SAN JOSE	68.0(109.4)	6.5	0.052	VI
GRAVEL HILLS - HARPER LAKE	68.5(110.3)	6.9	0.053	VI
ELMORE RANCH	69.6(112.0)	6.6	0.045	VI
SIERRA MADRE	70.2(112.9)	7.0	0.067	VI
SUPERSTITION MTN. (San Jacinto)	73.7(118.6)	6.6	0.043	VI
NEWPORT-INGLEWOOD (Offshore)	74.3(119.6)	6.9	0.050	VI
SUPERSTITION HILLS (San Jacinto)	74.9(120.5)	6.6	0.042	VI
ELYSIAN PARK THRUST	75.1(120.9)	6.7	0.054	VI

DETERMINISTIC SITE PARAMETERS

ABBREVIATED FAULT NAME	APPROXIMATE DISTANCE mi (km)	ESTIMATED MAX. EARTHQUAKE EVENT: MAXIMUM EARTHQUAKE MAG. (Mw)	ESTIMATED MAX. EARTHQUAKE EVENT: PEAK SITE ACCEL. g	ESTIMATED MAX. EARTHQUAKE EVENT: EST. SITE INTENSITY MOD.MERC.
ROSE CANYON	76.0(122.3)	6.9	0.049	VI
CLAMSHELL-SAWPIT	78.7(126.6)	6.5	0.047	VI
BLACKWATER	80.3(129.3)	6.9	0.047	VI
NEWPORT-INGLEWOOD (L.A.Basin)	83.5(134.4)	6.9	0.045	VI
COMPTON THRUST	83.7(134.7)	6.8	0.052	VI
RAYMOND	86.4(139.1)	6.5	0.043	VI
IMPERIAL	89.4(143.9)	7.0	0.045	VI
VERDUGO	91.3(146.9)	6.7	0.046	VI
CORONADO BANK	91.4(147.1)	7.4	0.055	VI
LAGUNA SALADA	91.4(147.1)	7.0	0.045	VI
PALOS VERDES	92.8(149.4)	7.1	0.046	VI
HOLLYWOOD	98.7(158.8)	6.4	0.037	V

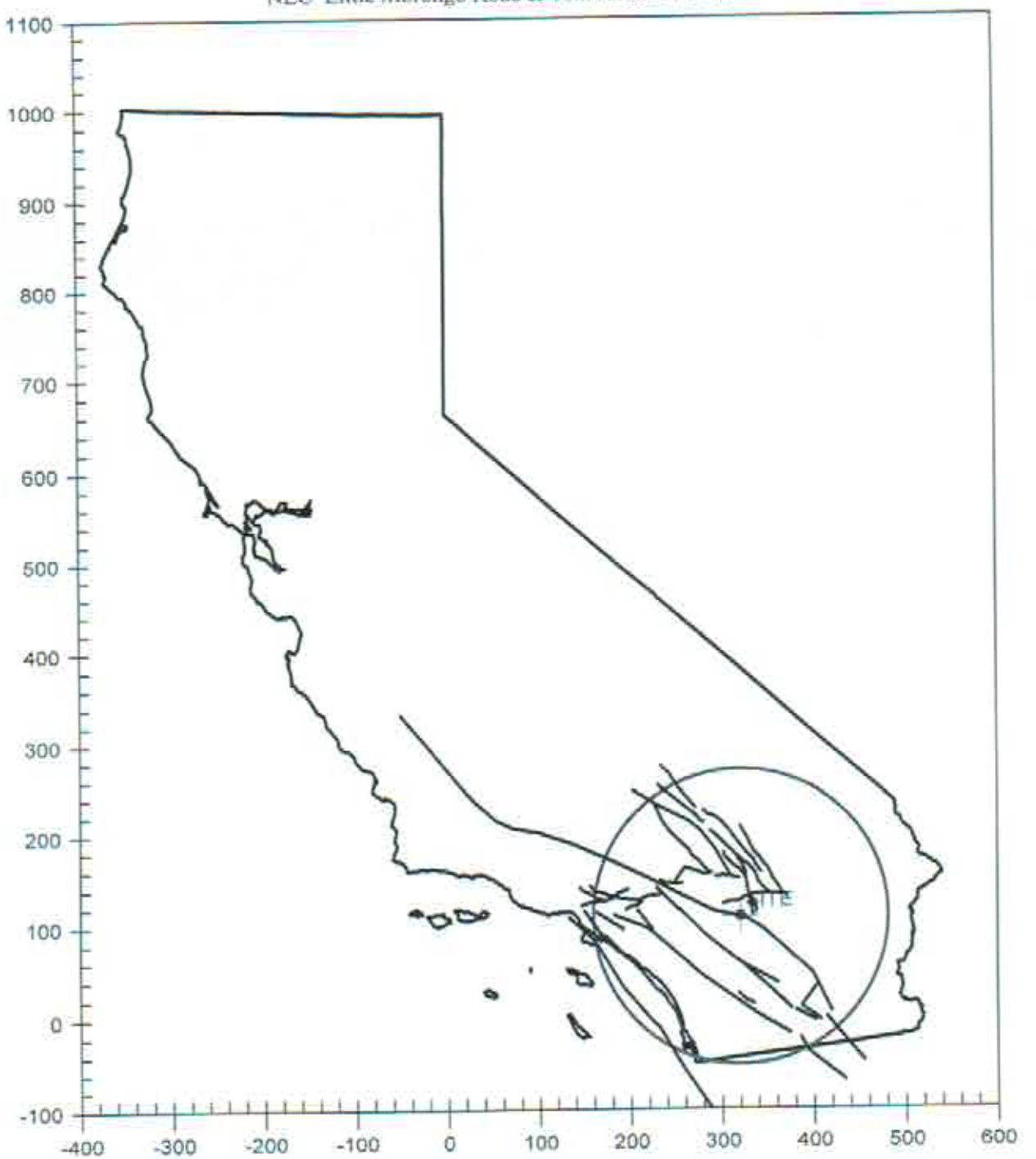
-END OF SEARCH- 52 FAULTS FOUND WITHIN THE SPECIFIED SEARCH RADIUS.

THE SAN ANDREAS - San Bernardino FAULT IS CLOSEST TO THE SITE.
IT IS ABOUT 0.2 MILES (0.3 km) AWAY.

LARGEST MAXIMUM-EARTHQUAKE SITE ACCELERATION: 0.7017 g

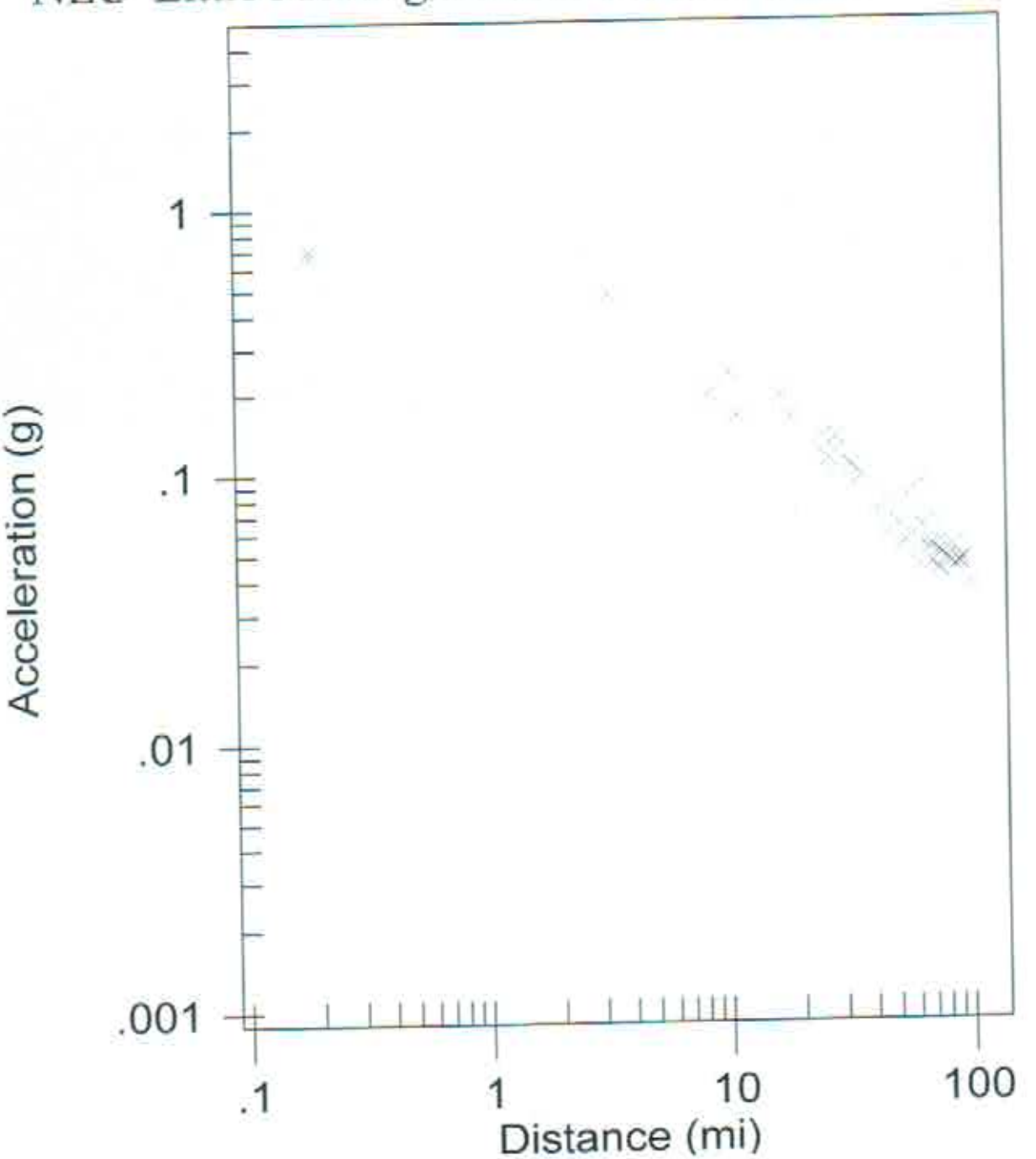
CALIFORNIA FAULT MAP

NEC Little Morongo Road & 16th Avenue / DHS



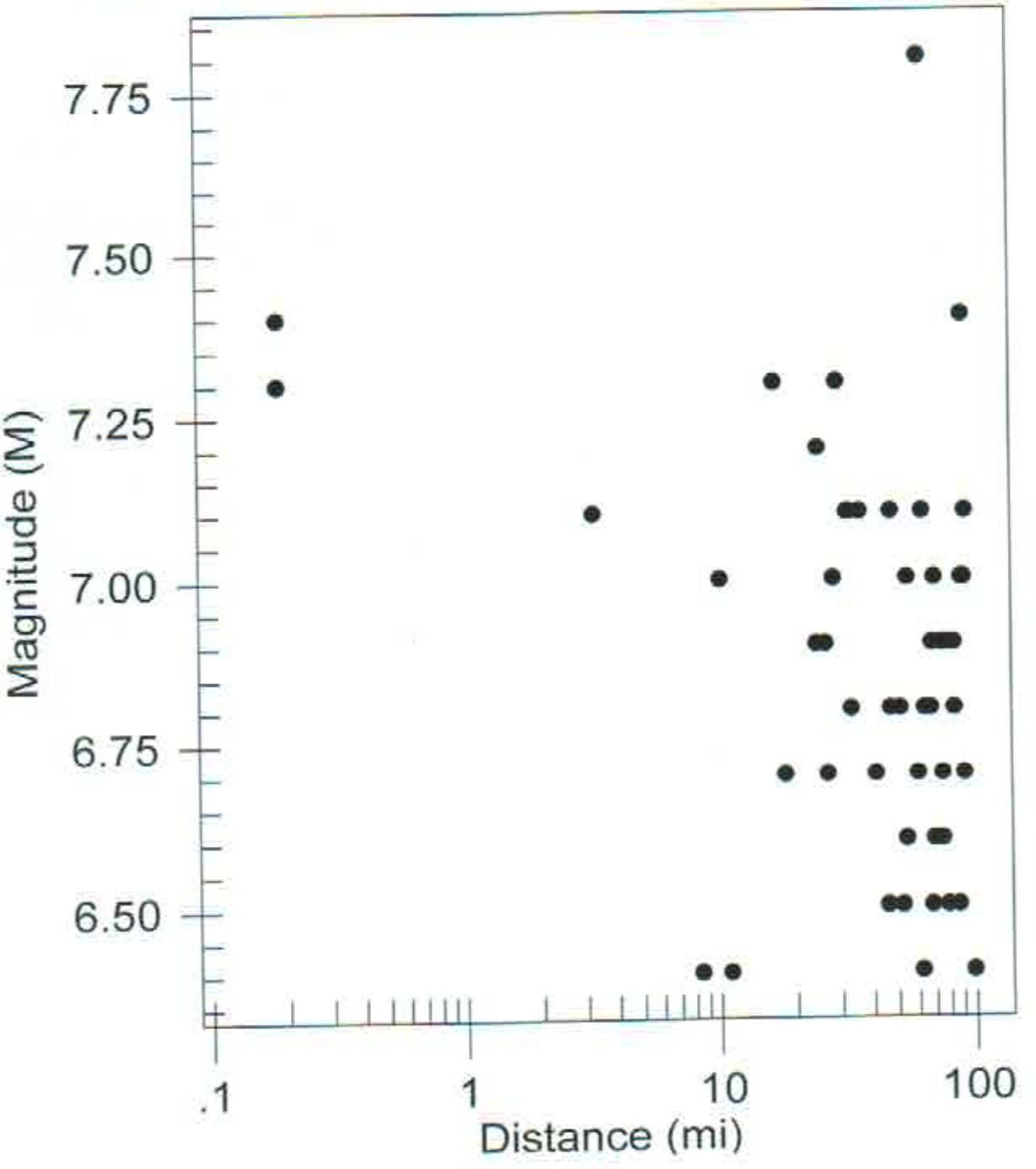
MAXIMUM EARTHQUAKES

NEC Little Morongo Road & 16th Avenue / DHS



EARTHQUAKE MAGNITUDES & DISTANCES

NEC Little Morongo Road & 16th Avenue / DHS



Appendix G

Preliminary Drainage Study

PRELIMINARY DRAINAGE STUDY FOR TPM 37235

DESERT HOT SPRINGS, CALIFORNIA

Submitted to:

CITY OF DESERT HOT SPRINGS
1995 Market Street
Riverside, CA 92501

Prepared for:

The Altum Group
73-710 Fred Waring Drive, Suite 219
Palm Desert, CA, 92260
(760) 346-4750

Prepared by:

ACI
AGUILAR CONSULTING INC.
2155 Chicago Avenue, Suite 301
Riverside, CA 92507
(951) 300-1431

May 21, 2018

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I. PURPOSE AND SCOPE

The purpose of this study is to determine the 100-year off-site flows for Mission Creek and Morongo Wash tributary to Tentative Parcel Map (TPM) 37235 and the 100-year peak on-site storm runoff generated by the project area. The study was performed based upon the existing condition for the off-site drainage areas of Mission Creek and Morongo Wash and the local drainage area tributary to the 15th Street. The study was also performed based on the existing (pre-project) and proposed (post-project) development conditions for the on-site drainage areas in order to determine the increase in storm runoff due to development of the project site. The computed flow rates will be used to provide the proposed project with flood protection from Mission Creek and Morongo Wash and to preliminarily size the proposed on-site drainage systems. Additionally, it will be used as reference for the project WQMP.

The scope of the study includes the following:

1. Determination of the hydrological nodal points and tributary drainage areas within the hydrological limits of influence of the project site.
2. Determination of the 100-year storm flows tributary to the hydrological nodal points based upon the existing condition for the off-site and on-site areas and proposed (post-project) condition for the on-site areas utilizing the Civil Design Software and Rational Tabling program for Riverside County.
3. Determination of the size and location of the proposed drainage facilities required to flood-protect the proposed project site without adversely impacting the existing drainage condition utilizing the Flowmaster Program based on the Normal-Depth method.
4. Determination of the 100-year flood hazard elevations for Mission Creek and Morongo Wash adjacent to the project utilizing the HEC-RAS Program.
5. Preparation of the preliminary drainage study, hydrology and flood hazard maps, and preliminary drainage facilities plan.

II. PROJECT SITE AND DRAINAGE AREA OVERVIEW

TPM 37235 is located in the city of Desert Hot Springs in Riverside County. The project is approximately 2.8 miles north of Interstate 10 along Little Morongo Road. It is bounded by 15th Street to the north 16th Street to the south, Atlantic Avenue and Morongo Wash to the east, and Little Morongo Road and Mission Creek Wash to the west (see Figure 1 on next page). This 110-acre commercial development project consists of 58 lots with sizes ranging from 0.85 to 1.92 acres per lot. The sizes of the proposed development pads within each lot range approximately from 33,533 square-feet (0.77 acres) to 83,591 square-feet (1.92 acres).

The off-site drainage area covered by this plan is approximately 154 square miles (98,796 acres) and on-site area of approximately 110 acres. The upper portion of the off-site

drainage areas tributary to TPM 37235 is characterized by mountainous terrain ranging in slopes from 5 percent to 50 percent. This portion of the off-site area is covered with typical mountain vegetation and contains several meandering drainage courses that are sandwiched between steep, rugged hillsides. For the lower portion of the watershed area, it consists of alluvial fans with moderate slopes ranging from 2 percent to 4 percent. For the most part, the valley floor is covered with desert brush and several alluvial streams. About half of the lower area of the Morongo Wash drainage area is developed while the Mission Creek drainage area is sparsely peppered with small-sized developments. The majority of the project site drains southerly into existing natural fluvial streams that eventually confluence with Mission Creek and Morongo Wash near the I-10 freeway. Increase in storm runoff generated by the project site will be mitigated thru implementation of on-site retention basins along with post-construction BMPs as proposed in the project WQMP.

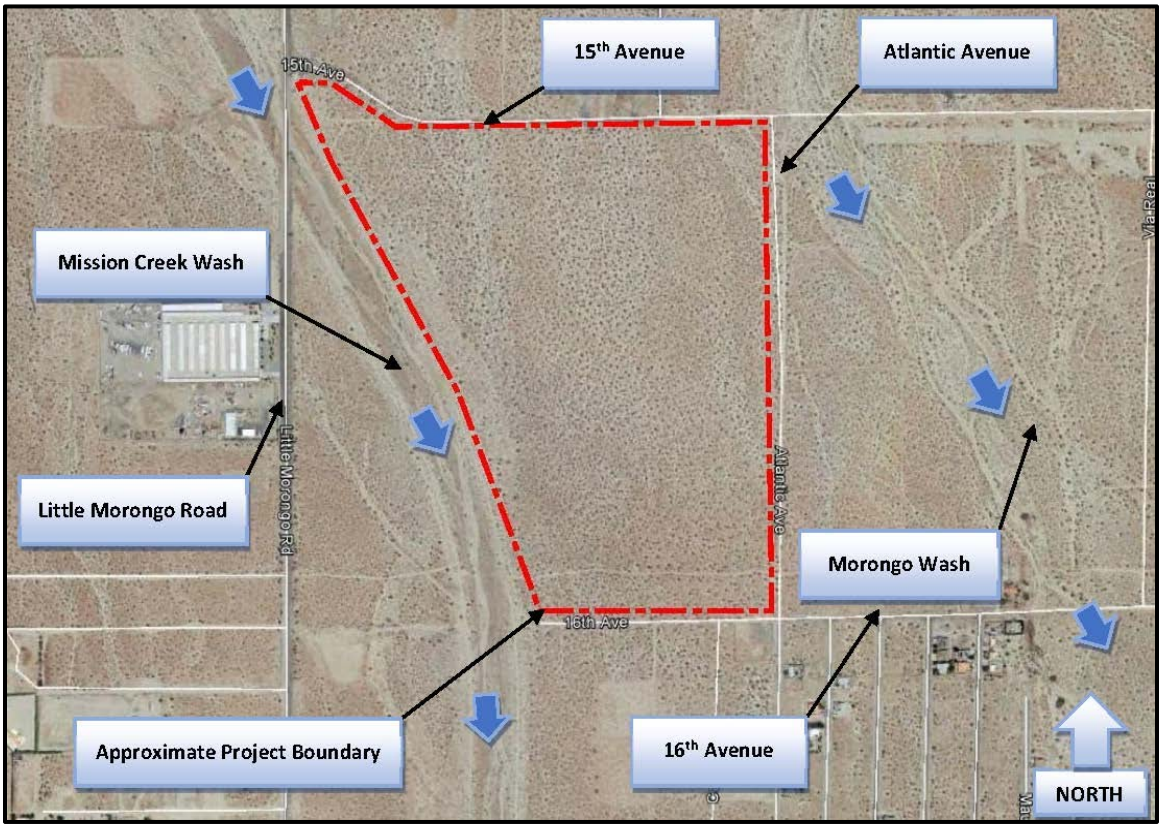


Figure 1: Project Location Map

Review of the Federal Emergency Management Agency (FEMA) Floodplain Maps No. 06065C0885G and 060650895G dated August 28, 2008 indicates that the project site is mapped as Zone "AO". According to FEMA, Flood Zone "AO" is defined as "River or stream flood hazard areas, and areas with a 1% or greater chance of shallow flooding each year, usually in the form of sheet flow, with an average depth ranging from 1 to 3 feet. Average flood depths derived from detailed analyses area shown within these zones". Implementation of the proposed drainage plan for TPM 37235 should provide the project

with drainage protection from the 100-year storm event without adversely impacting the existing drainage conditions of the adjacent area.

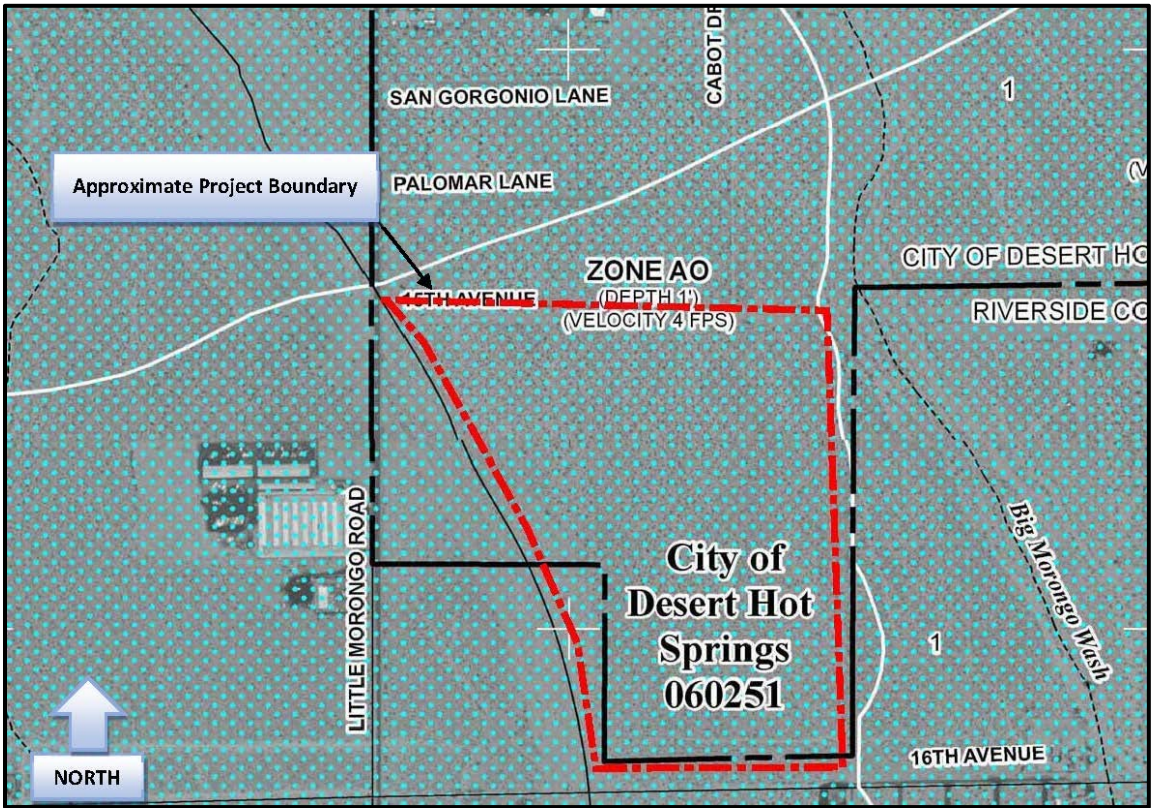


Figure 2: FEMA Map No. 06065C0885G and 06065C0895G, dated 8/28/2008

III. HYDROLOGY

Drainage basin boundaries and points of storm flow concentration were determined utilizing the existing project site topography, USGS map, Google Earth and the roadway and grading layout shown on TPM 37235. Field investigations were conducted to verify the relative accuracy of the drainage boundaries.

Exhibit "A" depicts the on-site hydrology map for the existing condition based on the rational tabling method. The results of the calculations are included in Appendix A. Exhibit "B" depicts the on-site hydrology map for the proposed condition based on the rational tabling method. The results of the calculations are included in Appendix B. Exhibit "C" depicts the on-site hydrology map for the proposed condition based on the unit-hydrograph method. The results of the calculations are included in Appendix C. Exhibit "D" depicts the off-site hydrology map for the local off-site drainage area tributary to 15th Street based on the existing condition using the rational tabling method. The results of the calculations are included in Appendix D. Exhibit "E" depicts the off-site hydrology map for Mission Creek and Morongo Wash based on the existing condition. The results of the calculations are included in Appendix E.

The Riverside County Hydrology Manual (Ref. 2) was used to develop the hydrological parameters for the 100-year storm event. Computations were performed using the RRIV (rational tabling method for on-site areas) and UNRIV (unit-hydrograph method for off-site areas for Mission Creek and Morongo Wash) computer program developed by CivilCadd/CivilDesign (CDD).

The rainfall values and slope of intensity duration curves used for the study were obtained from the maps contained in the RCFC&WCD hydrology manual. For the on-site areas and off-site areas tributary to the project site, the rainfall value used for the 100-year/1-hour storm event is 1.6 inches. For the off-site areas for Mission Creek and Morongo Wash, the rainfall values used for the 2-year/24-hour storm event range from 1.4 inches to 4.0 inches while the 100-year/24-hour storm event range from 4.5 inches to 12.0 inches. The slope of intensity duration curve used for both the on-site and on-site hydrology is 0.58.

The study area for the on-site hydrology consists of Hydrologic Soil Group A. Soil Group A was also used for the off-site hydrology tributary to the project site. For the off-site areas for Mission Creek and Morongo Wash, soil groups A, B, C, and D were used. Antecedent Moisture Condition (AMC) 2 was used for both the on-site and off-site areas. The land-use category descriptions used in the hydrologic analysis for the on-site and off-site areas tributary to the project site was "Undeveloped – Poor Cover" while the on-site proposed condition was "Commercial". For the off-site areas for Mission Creek and Morongo Wash, the RI number used was 82 with an impervious cover ranging from 0.00 to 0.02 and an average Manning's n-value ranging from 0.038 to 0.039.

The computed 100-year peak storm flow values for the off-site drainage areas from Mission Creek and Morongo Wash are shown on Table 1. The table shows both the "clear-water" and "bulked flow". The 100-year "bulked" flows were determined by multiplying the "clear-water" flows by a bulking factor of 1.51 (51 percent) and 1.43 (43 percent) for Mission Creek and Morongo Wash, respectively. This bulking factor was applied using the US Army Corps of Engineers Los Angeles District Debris Method (Ref. 3) to account for debris and sediment that will co-mingle with the "clear-water" flow, which is typical for desert alluvial conditions.

Table 1: Summary of 100-year Hydrologic Study Results for Mission Creek and Morongo Wash

Flooding Source	Nodal Point	Drainage Area (Square Miles)	100-Year "Clear-Water" Flow Rate (CFS)	100-Year "Bulked" Flow Rate (CFS)
Mission Creek	101	43	13,734	20,601
Morongo Wash	201	112	26,609	38,051

100-year flows emanating from local off-site drainage areas tributary to 15th Street are shown on Table 2. A bulking factor of 1.25 (25 percent) was used to determine the bulked

flows The results of the 100-year and 10-year flows generated on-site are shown on Exhibit "B".

Table 2: Summary of 100-year Hydrologic Study Results for Local Off-site Areas Tributary to 15th Street

Nodal Point	Drainage Area (Acres)	100-Year "Clear-Water" Flow Rate (CFS)	100-Year "Bulked" Flow Rate (CFS)
105	182	251	334
202	17	38	51
303	37	73	96
402	14	30	37

IV. FLOOD HAZARD ANALYSIS

The flood hazard analysis was prepared for Mission Creek and Morongo Wash as shown on Figure 3. Hydraulic models of Mission Creek and Morongo Wash were developed using project aerial topographic map (NAVD 88) with 1-foot contour intervals provided by The Altum Group (January 2017).



Figure 3: HEC-RAS Study limits

There were 20 stream sections used in the analysis for Mission Creek spanning a total reach length of 3,951 feet while Morongo Wash has 8 stream sections over a total reach length of 926 feet.

With the project being designated as a FEMA Mapped Zone AO, the hydraulic models were developed to determine the depths and limits of the 100-year flooding from Mission Creek and Morongo Wash and how the flooding will impact TPM 37235.

HEC-RAS was used to compute the hydraulic variables for the washes under peak flow condition for the 100-year storm events including the "bulked flow" conditions using the US Army Corps of Engineers Los Angeles District Debris Method (Ref. 3). The 100-year "bulked" flows were determined by multiplying the "clear-water" flows by a bulking factor of 1.51 (51 percent) and 1.43 (43 percent) for Mission Creek and Morongo Wash, respectively. This bulking factor was applied to account for debris and sediment that will co-mingle with the "clear-water" flow, which is typical for desert alluvial conditions.

HEC-RAS (Version 4.1.0) is a product of the Hydrologic Engineering Center (HEC) of the US Army Corps of Engineers.

A Manning's N-values of 0.030 was assigned for the stream bed and channel overbanks, respectively, throughout the length of the study reach for both washes. The Manning's N-value was derived from aerial map and field review of the reaches to be modeled, considering the various components that contribute to flow resistance – i.e. bed material size, irregularity, vegetation type and density, etc. It should be noted that there is some uncertainty in assigning Manning's N-values along natural streams. In reality, the values can change during the event being modeled, due to bedform development, changes in flow depth, loss of vegetation, and changes in geometry. The Manning's N-values assigned for this study are considered reasonable for purposes of this study, but are by no means exact. To conform to FEMA's flood mapping requirements, sub-critical flow regime was used for the hydraulic models.

The results of the 100-year HEC-RAS calculations for Mission Creek and Morongo Wash are shown in Appendix D while Appendix E shows the stream cross sections.

Exhibit G shows the locations of the cross-sections used in the hydraulic models as well as the upstream and downstream limits of the streams. More importantly, it shows the 100-year water surface elevation at each cross section for both washes in relation to the grading layout of TPM 37235 (Ref. 1) to show which building pads could be potentially affected by Mission Creek and Morongo Wash during the 100-year storm event.

From the results of the HEC-RAS study, it is evident that Mission Creek and Morongo Wash have the potential to adversely impact portions of TPM 37235 and inundate the site during the 100-year storm event. Mitigation measures to protect TPM 37235 from flooding are described in the next section of this study.

V. HYDRAULIC ANALYSIS AND PROPOSED PRELIMINARY DRAINAGE PLAN

Hydraulic calculations were prepared in support of the preliminary drainage plan for TPM 37235. The plan proposes a system of drainage channels and underground storm drains to intercept and convey the storm flows generated by the project site and the off-site areas emanating from the north. The proposed drainage system will be designed to perpetuate the existing drainage flow pattern to the maximum extent practical. Many of the underground drainage facilities are proposed to be placed under the streets while open channels are proposed along the north side of the project site. Four (4) retention/water quality basins are proposed as described in this study report and the project Water Quality Management Plan (WQMP).

Manning's N-value of 0.015 was used for the proposed drainage improvements with concrete while an N-value of 0.025 was used for the earthen channel.

The improvements proposed by this plan are shown on Exhibit "F", which is enclosed in the back of this report. This exhibit not only shows proposed preliminary alignments, but pertinent preliminary size information, as well as the design flow rates.

The hydraulic calculations in support of the proposed drainage improvements are included in Appendix E. Computations for the Normal Depth method were performed using the Flowmaster computer program developed by Bentley.

The following is a brief description of the recommended drainage improvements proposed in this preliminary drainage plan:

Lines "A-1" and "A-2"

Lines "A-1" and "A-2" system is a combination of earthen channel and underground reinforced concrete box (RCB) that is proposed to intercept and convey the local off-site "bulked" 100-year storm flows of 53.9 ft^3/sec and discharge them into Morongo Wash adjacent to the east side of the site. Line "A-1" and "A-2" system is located along the north side of the site, just south of 15th street and slopes from west to east. Line "A-1" is a trapezoidal shaped earthen channel with a bottom width of 4 feet and height of 6 feet. Line "A-1" includes several parkway drains that are designed to intercept, convey and outlet the tributary flows into the channel. Adequate riprap aprons will be provided at the parkway drain locations to protect the earthen channel from scour. The earthen channel then transitions into a 3-foot high, 4-foot wide RCB as it goes under Street "A". This portion of the system under Street "A" is designated as Line "A-2". From that point, it heads easterly and discharges the flows into Morongo Wash via an earthen trapezoidal shaped channel. The outlet will consist of a headwall and riprap apron to reduce the exiting flow velocities in order to maintain the integrity and functionality of the channel. Construction of this outlet on Morongo Wash may require a permit from an environmental resource agency.

Lines "B-1" and "B-2"

Lines "B-1" and "B-2" system is a combination of concrete channel and underground reinforced concrete pipe (RCP) that is proposed to intercept and convey the local off-site "bulked" 100-year storm flows of 336.2 ft^3/sec and discharge them into Mission Creek adjacent to the west side of the site. The Lines "B-1" and "B-2" system is located along the north side of the site, just south of 15th street and slopes from east to west and then north to south. Line "B-1" is a concrete channel, trapezoidal shaped, with a bottom width of 4 feet and height of 5 feet. Line "B-1" includes several parkway drains that are designed to intercept, convey and outlet the tributary flows into the channel. It then transitions into Line "B-2", which is a 78-inch RCP as it goes under and follows Street "F" and outlets into Mission Creek. The outlet will consist of a headwall and riprap apron to reduce the exiting flow velocities in order to maintain the integrity and functionality of the channel. Construction of this outlet on Mission Creek will require an encroachment permit from RCFCD. Additional permits from environmental resource agencies may also be required.

Line "C" System (Lines "C-1", "C-2" and "C-3")

Line "C" system is an underground drainage system proposed to intercept and convey the combined 100-year storm flow of 29.2 ft^3/sec and discharge them into the proposed Basin "C". It is located on Street "F", south of Street "E. The Line "C" system consists of an underground RCP that varies in size from 24-inches to 30-inches and it generally slopes west

to east.

Line "D"

Line "D" system is an underground drainage pipe proposed to intercept and convey the combined 100-year storm flow of 9.7 ft^3/sec and discharge them into the proposed Basin "C". It is located southeast of Building Pad 19. Line "D" is an underground RCP that is 18-inches in size and it generally slopes east to southwest.

Line "E" System (Lines "E-1" and "E-2")

Line "E" system is an underground drainage system proposed to intercept and convey the combined 100-year storm flow of 10.3 ft^3/sec and discharge them into the proposed Basin "B". It is located on Street "D", east of Street "F. The Line "E" system is an underground RCP that varies in size from 18-inches to 24-inches.

Line "F" System (Lines "F-1", "F-2", and "F-3")

Line "F" system is an underground drainage system proposed to intercept and convey the combined 100-year storm flow of 26.4 ft^3/sec and discharge them into the proposed Water Quality Basin "B". It is located on the south end of Street "F". The Line "F" system is an underground RCP that varies in size from 18-inches to 36-inches and it generally slopes south to north. The Line "F" system serves as outlet for Line "G".

Line "G" System (Lines, "G-1" and "G-2" and Lat. "G-1")

Line "G" system is an underground drainage system proposed to intercept and convey the combined 100-year storm flow of 10.0 ft^3/sec and discharge them into the proposed Line "F". It is located on the south end of Street "F". Line "G" is an underground RCP that varies in size from 18-inches to 24-inches and it generally slopes east to west.

Line "H" System (Lines "H-1 and H-2")

Line "H" system is an underground drainage system proposed to intercept and convey the combined 100-year storm flow of 200.9 ft^3/sec and discharge them into the proposed Basin "A". It is located at the south end of Street "A". Line "H" is an underground RCP varies in size from 24-inches to 60-inches that generally slopes west to east. Line "H" serves as outlet for Line "I".

Line "I" System (Lines "I-1", "I-2", "I-3", and "I-4" and Lats. "I-1", "I-2", "I-3", and "I-4")

Line "I" system is an underground drainage system proposed to intercept and convey the combined 100-year storm flow of 184.8 ft^3/sec and discharge them into the proposed Line "H". It is located at the south end of Street "A". Line "I" is an underground RCP that varies in size from 36-inches to 60-inches and it slopes north to south.

Line "J"

Line "J" is an underground drainage pipe proposed to intercept and convey the combined 100-year storm flow of 15.0 ft^3/sec and discharge them into the proposed Basin "A". It is located on the southeast end of the site. Line "J" is an underground RCP that is 24-inches in size and it slopes east to west.

Basin "A"
Basin "A" is a combination of a retention basin and water quality basin that is proposed to retain and mitigate on-site flows generated by TPM 37235. The basin slope is 2:1 and it has a total storage flow volume of approximately 46.56 acre-feet. The Line "H" and "J" drainage systems discharge their flows into Basin "A".

Basin "B"
Basin "B" is a combination of a retention basin and water quality basin that is proposed to retain and mitigate on-site flows generated by TPM 37235. The basin slope is 2:1 and it has a total storage flow volume of approximately 1.76 acre-feet. The Line "E" and "F" drainage systems discharge their flows in to Basin "B".

Basin "C"
Basin "C" is a combination of a retention basin and water quality basin that is proposed to retain and mitigate on-site flows generated by TPM 37235. The basin slope is 2:1 and it has a total storage flow volume of approximately 2.69 acre-feet. The Line "C" and "D" drainage systems discharge their flows in to Basin "C".

Basin "D"
Basin "D" is a combination of a retention basin and water quality basin that is proposed to retain and mitigate on-site flows generated by TPM 37235. The basin slope is 2:1 and it has a total storage flow volume of approximately 1.76 acre-feet. Basin "D" is designed to capture flows that are generated from the northwest area of the site where the proposed Southern California Edison Substation is to be constructed in the future.

Flood Hazard Mitigation against Mission Creek and Morongo Wash Flooding

In order to protect TPM 37235 from flooding caused by Mission Creek during the 100-year storm event, the perimeter wall along the west side of Street "F", from 15th Street down to 16th Street, will be designed to accommodate a combination of flood wall and screen wall. Conversely, the perimeter wall along the east side of Atlantic Avenue, from 15th Street down to the southerly limit of Lot 33 will be designed to accommodate a combination of flood wall and screen wall. The actual height of the flood wall along with the depth of the footing will be determined during the final design phase of this project.

VI. FINDINGS

The existing (pre-project) and proposed (post-project) conditions hydrology analyses evaluated the runoff generated by on-site areas at common discharge points. Table 1 (next page) tabulates the peak flow rates resulting from the analyses performed for the nodal points of interest as shown on the Exhibit "A" – Onsite Existing Condition Hydrology Map and Exhibit "B" – Onsite Proposed Condition Hydrology Map.

Table 3: Hydrology Results for On-site Areas

LOCATION	EXISTING CONDITION			PROPOSED CONDITION			FLOW INCREASE (CFS)
	NODAL POINT	AREA (ACRES)	Q_{100} (CFS)	NODAL POINT	AREA (ACRES)	Q_{100} (CFS)	
Project Site	103 & 203 & 304*	29.13	202.9	*	29.13	308.2	***105.3***

*Flow rate was added directly with no time of concentration adjustment.

The hydrology calculations indicate that the 100-year storm flows have increased by 105.3 ft^3/sec from existing to proposed conditions. This increase in the flow rate is attributed to the difference in land-use designation (from undeveloped to developed condition). This flow increase of 128.7 ft^3/sec will be mitigated through implementation of Basins "A", "B", "C" and "D". These basins will be designed to fully retain the tributary flows. Dry wells will be provided to drain the basin flows.

The FEMA Floodplain Maps and Flood Hazard Analysis Results indicate that TPM 37235 is adversely impacted by flows emanating from Mission Creek and Morongo Wash during the 100-year flood event. Implementation of the proposed flood hazard mitigation measures will provide TPM 37235 with 100-year flood protection from these two major streams. Additionally, implementation of the proposed drainage systems will protect the proposed development from local off-site and on-site 100-year storm flows without adversely impacting adjacent and downstream properties.

VII. REFERENCES

1. The Altum Group, *"Tentative Parcel Map No. 37235"*, January 2017.
2. Riverside County Flood Control District Hydrology Manual, 2003.
3. US Army Corps of Engineers Los Angeles District, "*Debris Method: Los Angeles District Method for Prediction of Debris Yield*", 2000.

APPENDICES

APPENDIX A: ON-SITE EXISTING CONDITION HYDROLOGY CALCULATIONS (RATIONAL TABLING METHOD)

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 06/14/17 File:AREAA.out

TPM NO. 37235
ON-SITE EXISTING CONDITION
AREA "A"
100YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 100.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity = 1.600(In/Hr)
Slope of intensity duration curve = 0.5800

++
Process from Point/Station 100.000 to Point/Station 101.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 1000.000(Ft.)
Top (of initial area) elevation = 944.600(Ft.)
Bottom (of initial area) elevation = 927.000(Ft.)
Difference in elevation = 17.600(Ft.)
Slope = 0.01760 s(percent)= 1.76
TC = k(0.530)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 18.844 min.
Rainfall intensity = 3.132(In/Hr) for a 100.0 year storm
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.744
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 67.00
Pervious area fraction = 1.000; Impervious fraction = 0.000
Initial subarea runoff = 9.601(CFS)
Total initial stream area = 4.120(Ac.)
Pervious area fraction = 1.000

++
Process from Point/Station 101.000 to Point/Station 102.000
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****

Estimated mean flow rate at midpoint of channel = 22.651(CFS)
Depth of flow = 0.251(Ft.), Average velocity = 2.117(Ft/s)
******* Irregular Channel Data ***********

Information entered for subchannel number 1 :

Point number	'X' coordinate	'Y' coordinate
1	0.00	1.00
2	65.00	0.00
3	85.00	0.00
4	200.00	1.00

```
Manning's 'N' friction factor =   0.030
-----------------------------------------------------------------
Sub-Channel flow  =     22.651(CFS)
  '     '         flow top width =     65.204(Ft.)
  '     '    velocity=    2.117(Ft/s)
  '     '         area =     10.699(Sq.Ft)
  '     '         Froude number =     0.921

Upstream point elevation =   927.000(Ft.)
Downstream point elevation =   903.000(Ft.)
Flow length =  1180.000(Ft.)
Travel time  =    9.29 min.
Time of concentration =   28.13 min.
Depth of flow =   0.251(Ft.)
Average velocity =   2.117(Ft/s)
Total irregular channel flow =    22.651(CFS)
Irregular channel normal depth above invert elev. =   0.251(Ft.)
Average velocity of channel(s) =   2.117(Ft/s)
 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.712
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  67.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      2.483(In/Hr) for a   100.0 year storm
Subarea runoff =     19.789(CFS) for     11.200(Ac.)
Total runoff =     29.390(CFS)  Total area =      15.320(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      102.000 to Point/Station      103.000
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****
________________________________________________________________________
Estimated mean flow rate at midpoint of channel =     42.637(CFS)
Depth of flow =   0.290(Ft.), Average velocity =   2.634(Ft/s)
        ******* Irregular Channel Data ***********
-----------------------------------------------------------------
Information entered for subchannel number 1 :
Point number      'X' coordinate     'Y' coordinate
        1             0.00              1.00
        2            35.00              0.00
        3            80.00              0.00
        4           120.00              1.00
Manning's 'N' friction factor =   0.030
-----------------------------------------------------------------
Sub-Channel flow  =     42.637(CFS)
  '     '         flow top width =     66.728(Ft.)
  '     '    velocity=    2.635(Ft/s)
  '     '         area =     16.184(Sq.Ft)
  '     '         Froude number =     0.943

Upstream point elevation =   903.000(Ft.)
Downstream point elevation =   890.000(Ft.)
Flow length =   695.000(Ft.)
Travel time  =    4.40 min.
Time of concentration =   32.53 min.
Depth of flow =   0.290(Ft.)
Average velocity =   2.634(Ft/s)
Total irregular channel flow =    42.637(CFS)
Irregular channel normal depth above invert elev. =   0.290(Ft.)
Average velocity of channel(s) =   2.634(Ft/s)
 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.699
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  67.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      2.282(In/Hr) for a   100.0 year storm
Subarea runoff =     22.025(CFS) for     13.810(Ac.)
Total runoff =     51.416(CFS)  Total area =      29.130(Ac.)
End of computations, total study area =           29.13 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.
```

```
Area averaged pervious area fraction(Ap) = 1.000
Area averaged RI index number =  67.0
```

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 06/14/17 File:AREAB.out

TPM NO. 37235
ON-SITE EXISTING CONDITION
AREA "B"
100YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 100.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity = 1.600(In/Hr)
Slope of intensity duration curve = 0.5800

++
Process from Point/Station 200.000 to Point/Station 201.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 1000.000(Ft.)
Top (of initial area) elevation = 946.400(Ft.)
Bottom (of initial area) elevation = 929.000(Ft.)
Difference in elevation = 17.400(Ft.)
Slope = 0.01740 s(percent)= 1.74
TC = k(0.530)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 18.887 min.
Rainfall intensity = 3.128(In/Hr) for a 100.0 year storm
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.744
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 67.00
Pervious area fraction = 1.000; Impervious fraction = 0.000
Initial subarea runoff = 20.033(CFS)
Total initial stream area = 8.610(Ac.)
Pervious area fraction = 1.000

++
Process from Point/Station 201.000 to Point/Station 202.000
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****

Estimated mean flow rate at midpoint of channel = 37.507(CFS)
Depth of flow = 0.264(Ft.), Average velocity = 2.235(Ft/s)
******* Irregular Channel Data ***********

Information entered for subchannel number 1 :

Point number	'X' coordinate	'Y' coordinate
1	0.00	1.00
2	55.00	0.00
3	100.00	0.00
4	185.00	1.00

```
Manning's 'N' friction factor =   0.030
-----------------------------------------------------------------
Sub-Channel flow  =     37.508(CFS)
  '     '         flow top width =     81.999(Ft.)
  '     '    velocity=    2.235(Ft/s)
  '     '         area =     16.781(Sq.Ft)
  '     '         Froude number =     0.871

Upstream point elevation =   929.000(Ft.)
Downstream point elevation =   916.000(Ft.)
Flow length =   770.000(Ft.)
Travel time  =    5.74 min.
Time of concentration =   24.63 min.
Depth of flow =   0.264(Ft.)
Average velocity =   2.235(Ft/s)
Total irregular channel flow =    37.507(CFS)
Irregular channel normal depth above invert elev. =   0.264(Ft.)
Average velocity of channel(s) =   2.235(Ft/s)
 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.723
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  67.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      2.682(In/Hr) for a   100.0 year storm
Subarea runoff =     29.120(CFS) for     15.020(Ac.)
Total runoff =     49.153(CFS)  Total area =      23.630(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      202.000 to Point/Station      203.000
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****
_________________________________________________________________________
Estimated mean flow rate at midpoint of channel =     71.504(CFS)
Depth of flow =   0.375(Ft.), Average velocity =   2.590(Ft/s)
        ******* Irregular Channel Data ***********
-----------------------------------------------------------------
Information entered for subchannel number 1 :
Point number      'X' coordinate     'Y' coordinate
        1             0.00              1.00
        2            90.00              0.00
        3           130.00              0.00
        4           220.00              1.00
Manning's 'N' friction factor =   0.030
-----------------------------------------------------------------
Sub-Channel flow  =     71.505(CFS)
  '     '         flow top width =    107.421(Ft.)
  '     '    velocity=    2.590(Ft/s)
  '     '         area =     27.609(Sq.Ft)
  '     '         Froude number =     0.900

Upstream point elevation =   916.000(Ft.)
Downstream point elevation =   894.000(Ft.)
Flow length =  1315.000(Ft.)
Travel time  =    8.46 min.
Time of concentration =   33.09 min.
Depth of flow =   0.375(Ft.)
Average velocity =   2.590(Ft/s)
Total irregular channel flow =    71.504(CFS)
Irregular channel normal depth above invert elev. =   0.375(Ft.)
Average velocity of channel(s) =   2.590(Ft/s)
 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.697
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  67.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      2.259(In/Hr) for a   100.0 year storm
Subarea runoff =     33.860(CFS) for     21.490(Ac.)
Total runoff =     83.013(CFS)  Total area =      45.120(Ac.)
End of computations, total study area =           45.12 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.
```

Area averaged pervious area fraction(Ap) = 1.000
Area averaged RI index number = 67.0

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 06/14/17 File:AREAC.out

TPM NO. 37235
ON-SITE EXISTING CONDITION
AREA "C"
100YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 100.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity = 1.600(In/Hr)
Slope of intensity duration curve = 0.5800

++
Process from Point/Station 300.000 to Point/Station 301.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 1000.000(Ft.)
Top (of initial area) elevation = 960.300(Ft.)
Bottom (of initial area) elevation = 941.000(Ft.)
Difference in elevation = 19.300(Ft.)
Slope = 0.01930 s(percent)= 1.93
TC = k(0.530)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 18.500 min.
Rainfall intensity = 3.166(In/Hr) for a 100.0 year storm
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.745
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 67.00
Pervious area fraction = 1.000; Impervious fraction = 0.000
Initial subarea runoff = 6.891(CFS)
Total initial stream area = 2.920(Ac.)
Pervious area fraction = 1.000

++
Process from Point/Station 301.000 to Point/Station 302.000
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****

Estimated mean flow rate at midpoint of channel = 20.329(CFS)
Depth of flow = 0.256(Ft.), Average velocity = 2.586(Ft/s)
******* Irregular Channel Data ***********

Information entered for subchannel number 1 :

Point number	'X' coordinate	'Y' coordinate
1	0.00	2.00
2	25.00	0.00
3	50.00	0.00
4	115.00	2.00

```
Manning's 'N' friction factor =   0.030
-----------------------------------------------------------------
Sub-Channel flow  =     20.330(CFS)
  '     '         flow top width =     36.505(Ft.)
  '     '    velocity=    2.586(Ft/s)
  '     '         area =      7.862(Sq.Ft)
  '     '         Froude number =     0.982

Upstream point elevation =   941.000(Ft.)
Downstream point elevation =   924.000(Ft.)
Flow length =   805.000(Ft.)
Travel time  =    5.19 min.
Time of concentration =   23.69 min.
Depth of flow =   0.256(Ft.)
Average velocity =   2.586(Ft/s)
Total irregular channel flow =    20.329(CFS)
Irregular channel normal depth above invert elev. =   0.256(Ft.)
Average velocity of channel(s) =   2.586(Ft/s)
 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.726
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  67.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      2.743(In/Hr) for a   100.0 year storm
Subarea runoff =     22.686(CFS) for     11.390(Ac.)
Total runoff =     29.577(CFS)  Total area =      14.310(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      302.000 to Point/Station      303.000
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****
_________________________________________________________________________
Estimated mean flow rate at midpoint of channel =     46.794(CFS)
Depth of flow =   0.398(Ft.), Average velocity =   2.984(Ft/s)
        ******* Irregular Channel Data ***********
-----------------------------------------------------------------
Information entered for subchannel number 1 :
Point number      'X' coordinate     'Y' coordinate
        1             0.00              2.00
        2            60.00              0.00
        3            90.00              0.00
        4           125.00              2.00
Manning's 'N' friction factor =   0.030
-----------------------------------------------------------------
Sub-Channel flow  =     46.794(CFS)
  '     '         flow top width =     48.883(Ft.)
  '     '    velocity=    2.984(Ft/s)
  '     '         area =     15.679(Sq.Ft)
  '     '         Froude number =     0.929

Upstream point elevation =   924.000(Ft.)
Downstream point elevation =   913.000(Ft.)
Flow length =   665.000(Ft.)
Travel time  =    3.71 min.
Time of concentration =   27.40 min.
Depth of flow =   0.398(Ft.)
Average velocity =   2.984(Ft/s)
Total irregular channel flow =    46.794(CFS)
Irregular channel normal depth above invert elev. =   0.398(Ft.)
Average velocity of channel(s) =   2.984(Ft/s)
 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.714
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  67.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      2.521(In/Hr) for a   100.0 year storm
Subarea runoff =     29.985(CFS) for     16.660(Ac.)
Total runoff =     59.561(CFS)  Total area =      30.970(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
```

Process from Point/Station 303.000 to Point/Station 304.000
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****

Estimated mean flow rate at midpoint of channel = 65.033(CFS)
Depth of flow = 0.515(Ft.), Average velocity = 3.350(Ft/s)

******* Irregular Channel Data ***********

Information entered for subchannel number 1 :

Point number	'X' coordinate	'Y' coordinate
1	0.00	3.00
2	35.00	0.00
3	65.00	0.00
4	120.00	3.00

Manning's 'N' friction factor = 0.030

Sub-Channel flow = 65.033(CFS)
' ' flow top width = 45.441(Ft.)
' ' velocity= 3.350(Ft/s)
' ' area = 19.415(Sq.Ft)
' ' Froude number = 0.903

Upstream point elevation = 913.000(Ft.)
Downstream point elevation = 896.000(Ft.)
Flow length = 1195.000(Ft.)
Travel time = 5.95 min.
Time of concentration = 33.35 min.
Depth of flow = 0.515(Ft.)
Average velocity = 3.350(Ft/s)
Total irregular channel flow = 65.033(CFS)
Irregular channel normal depth above invert elev. = 0.515(Ft.)
Average velocity of channel(s) = 3.350(Ft/s)
Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.697
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 67.00
Pervious area fraction = 1.000; Impervious fraction = 0.000
Rainfall intensity = 2.249(In/Hr) for a 100.0 year storm
Subarea runoff = 8.916(CFS) for 5.690(Ac.)
Total runoff = 68.477(CFS) Total area = 36.660(Ac.)
End of computations, total study area = 36.66 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 1.000
Area averaged RI index number = 67.0

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 06/14/17 File:AREAA.out

TPM NO. 37235
ON-SITE EXISTING CONDITION
AREA "A"
10YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 10.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 10.0
Calculated rainfall intensity data:
1 hour intensity = 1.040(In/Hr)
Slope of intensity duration curve = 0.5800

++

Process from Point/Station 100.000 to Point/Station 101.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 1000.000(Ft.)
Top (of initial area) elevation = 944.600(Ft.)
Bottom (of initial area) elevation = 927.000(Ft.)
Difference in elevation = 17.600(Ft.)
Slope = 0.01760 s(percent)= 1.76
TC = k(0.530)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 18.844 min.
Rainfall intensity = 2.036(In/Hr) for a 10.0 year storm
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.680
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 67.00
Pervious area fraction = 1.000; Impervious fraction = 0.000
Initial subarea runoff = 5.708(CFS)
Total initial stream area = 4.120(Ac.)
Pervious area fraction = 1.000

++

Process from Point/Station 101.000 to Point/Station 102.000
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****

Estimated mean flow rate at midpoint of channel = 13.466(CFS)
Depth of flow = 0.195(Ft.), Average velocity = 1.839(Ft/s)

******* Irregular Channel Data ***********

Information entered for subchannel number 1 :

Point number	'X' coordinate	'Y' coordinate
1	0.00	1.00
2	65.00	0.00
3	85.00	0.00
4	200.00	1.00

```
Manning's 'N' friction factor =   0.030
-----------------------------------------------------------------
Sub-Channel flow  =     13.466(CFS)
  '     '         flow top width =     55.096(Ft.)
  '     '    velocity=    1.839(Ft/s)
  '     '         area =      7.321(Sq.Ft)
  '     '         Froude number =     0.889

Upstream point elevation =   927.000(Ft.)
Downstream point elevation =   903.000(Ft.)
Flow length =  1180.000(Ft.)
Travel time  =   10.69 min.
Time of concentration =   29.54 min.
Depth of flow =   0.195(Ft.)
Average velocity =   1.839(Ft/s)
Total irregular channel flow =    13.466(CFS)
Irregular channel normal depth above invert elev. =   0.195(Ft.)
Average velocity of channel(s) =   1.839(Ft/s)
 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.634
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  67.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      1.569(In/Hr) for a    10.0 year storm
Subarea runoff =     11.147(CFS) for     11.200(Ac.)
Total runoff =     16.855(CFS)  Total area =      15.320(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      102.000 to Point/Station      103.000
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****
_________________________________________________________________________
Estimated mean flow rate at midpoint of channel =     24.452(CFS)
Depth of flow =   0.211(Ft.), Average velocity =   2.189(Ft/s)
        ******* Irregular Channel Data ***********
-----------------------------------------------------------------
Information entered for subchannel number 1 :
Point number      'X' coordinate     'Y' coordinate
        1             0.00              1.00
        2            35.00              0.00
        3            80.00              0.00
        4           120.00              1.00
Manning's 'N' friction factor =   0.030
-----------------------------------------------------------------
Sub-Channel flow  =     24.452(CFS)
  '     '         flow top width =     60.834(Ft.)
  '     '    velocity=    2.189(Ft/s)
  '     '         area =     11.172(Sq.Ft)
  '     '         Froude number =     0.900

Upstream point elevation =   903.000(Ft.)
Downstream point elevation =   890.000(Ft.)
Flow length =   695.000(Ft.)
Travel time  =    5.29 min.
Time of concentration =   34.83 min.
Depth of flow =   0.211(Ft.)
Average velocity =   2.189(Ft/s)
Total irregular channel flow =    24.452(CFS)
Irregular channel normal depth above invert elev. =   0.211(Ft.)
Average velocity of channel(s) =   2.189(Ft/s)
 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.616
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  67.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      1.426(In/Hr) for a    10.0 year storm
Subarea runoff =     12.132(CFS) for     13.810(Ac.)
Total runoff =     28.987(CFS)  Total area =      29.130(Ac.)
End of computations, total study area =           29.13 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.
```

```
Area averaged pervious area fraction(Ap) = 1.000
Area averaged RI index number =  67.0
```

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 06/14/17 File:AREAB.out

TPM NO. 37235
ON-SITE EXISTING CONDITION
AREA "B"
10YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 10.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 10.0
Calculated rainfall intensity data:
1 hour intensity = 1.040(In/Hr)
Slope of intensity duration curve = 0.5800

++
Process from Point/Station 200.000 to Point/Station 201.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 1000.000(Ft.)
Top (of initial area) elevation = 946.400(Ft.)
Bottom (of initial area) elevation = 929.000(Ft.)
Difference in elevation = 17.400(Ft.)
Slope = 0.01740 s(percent)= 1.74
TC = k(0.530)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 18.887 min.
Rainfall intensity = 2.033(In/Hr) for a 10.0 year storm
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.680
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 67.00
Pervious area fraction = 1.000; Impervious fraction = 0.000
Initial subarea runoff = 11.909(CFS)
Total initial stream area = 8.610(Ac.)
Pervious area fraction = 1.000

++
Process from Point/Station 201.000 to Point/Station 202.000
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****

Estimated mean flow rate at midpoint of channel = 22.296(CFS)
Depth of flow = 0.199(Ft.), Average velocity = 1.903(Ft/s)
******* Irregular Channel Data ***********

Information entered for subchannel number 1 :

Point number	'X' coordinate	'Y' coordinate
1	0.00	1.00
2	55.00	0.00
3	100.00	0.00
4	185.00	1.00

```
Manning's 'N' friction factor =   0.030
-----------------------------------------------------------------
Sub-Channel flow  =     22.297(CFS)
  '     '         flow top width =     72.835(Ft.)
  '     '    velocity=    1.903(Ft/s)
  '     '         area =     11.714(Sq.Ft)
  '     '         Froude number =     0.836

Upstream point elevation =   929.000(Ft.)
Downstream point elevation =   916.000(Ft.)
Flow length =   770.000(Ft.)
Travel time  =    6.74 min.
Time of concentration =   25.63 min.
Depth of flow =   0.199(Ft.)
Average velocity =   1.903(Ft/s)
Total irregular channel flow =    22.296(CFS)
Irregular channel normal depth above invert elev. =   0.199(Ft.)
Average velocity of channel(s) =   1.903(Ft/s)
 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.650
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  67.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      1.703(In/Hr) for a    10.0 year storm
Subarea runoff =     16.618(CFS) for     15.020(Ac.)
Total runoff =     28.527(CFS)  Total area =      23.630(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      202.000 to Point/Station      203.000
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****
_________________________________________________________________________
Estimated mean flow rate at midpoint of channel =     41.499(CFS)
Depth of flow =   0.284(Ft.), Average velocity =   2.224(Ft/s)
        ******* Irregular Channel Data ***********
-----------------------------------------------------------------
Information entered for subchannel number 1 :
Point number      'X' coordinate     'Y' coordinate
        1             0.00              1.00
        2            90.00              0.00
        3           130.00              0.00
        4           220.00              1.00
Manning's 'N' friction factor =   0.030
-----------------------------------------------------------------
Sub-Channel flow  =     41.499(CFS)
  '     '         flow top width =     91.194(Ft.)
  '     '    velocity=    2.224(Ft/s)
  '     '         area =     18.656(Sq.Ft)
  '     '         Froude number =     0.867

Upstream point elevation =   916.000(Ft.)
Downstream point elevation =   894.000(Ft.)
Flow length =  1315.000(Ft.)
Travel time  =    9.85 min.
Time of concentration =   35.48 min.
Depth of flow =   0.284(Ft.)
Average velocity =   2.224(Ft/s)
Total irregular channel flow =    41.499(CFS)
Irregular channel normal depth above invert elev. =   0.284(Ft.)
Average velocity of channel(s) =   2.224(Ft/s)
 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.614
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  67.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      1.410(In/Hr) for a    10.0 year storm
Subarea runoff =     18.613(CFS) for     21.490(Ac.)
Total runoff =     47.140(CFS)  Total area =      45.120(Ac.)
End of computations, total study area =           45.12 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.
```

Area averaged pervious area fraction(Ap) = 1.000
Area averaged RI index number = 67.0

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 06/14/17 File:AREAC.out

TPM NO. 37235
ON-SITE EXISTING CONDITION
AREA "C"
10YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 10.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 10.0
Calculated rainfall intensity data:
1 hour intensity = 1.040(In/Hr)
Slope of intensity duration curve = 0.5800

++
Process from Point/Station 300.000 to Point/Station 301.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 1000.000(Ft.)
Top (of initial area) elevation = 960.300(Ft.)
Bottom (of initial area) elevation = 941.000(Ft.)
Difference in elevation = 19.300(Ft.)
Slope = 0.01930 s(percent)= 1.93
TC = k(0.530)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 18.500 min.
Rainfall intensity = 2.058(In/Hr) for a 10.0 year storm
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.682
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 67.00
Pervious area fraction = 1.000; Impervious fraction = 0.000
Initial subarea runoff = 4.100(CFS)
Total initial stream area = 2.920(Ac.)
Pervious area fraction = 1.000

++
Process from Point/Station 301.000 to Point/Station 302.000
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****

Estimated mean flow rate at midpoint of channel = 12.095(CFS)
Depth of flow = 0.190(Ft.), Average velocity = 2.173(Ft/s)
******* Irregular Channel Data ***********

Information entered for subchannel number 1 :

Point number	'X' coordinate	'Y' coordinate
1	0.00	2.00
2	25.00	0.00
3	50.00	0.00
4	115.00	2.00

```
Manning's 'N' friction factor =   0.030
-----------------------------------------------------------------
Sub-Channel flow  =     12.095(CFS)
  '     '         flow top width =     33.556(Ft.)
  '     '    velocity=    2.173(Ft/s)
  '     '         area =      5.567(Sq.Ft)
  '     '         Froude number =     0.940

Upstream point elevation =   941.000(Ft.)
Downstream point elevation =   924.000(Ft.)
Flow length =   805.000(Ft.)
Travel time  =    6.17 min.
Time of concentration =   24.67 min.
Depth of flow =   0.190(Ft.)
Average velocity =   2.173(Ft/s)
Total irregular channel flow =    12.095(CFS)
Irregular channel normal depth above invert elev. =   0.190(Ft.)
Average velocity of channel(s) =   2.173(Ft/s)
 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.654
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  67.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      1.741(In/Hr) for a    10.0 year storm
Subarea runoff =     12.961(CFS) for     11.390(Ac.)
Total runoff =     17.061(CFS)  Total area =      14.310(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      302.000 to Point/Station      303.000
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****
________________________________________________________________________
Estimated mean flow rate at midpoint of channel =     26.992(CFS)
Depth of flow =   0.292(Ft.), Average velocity =   2.501(Ft/s)
        ******* Irregular Channel Data ***********
-----------------------------------------------------------------
Information entered for subchannel number 1 :
Point number      'X' coordinate     'Y' coordinate
        1             0.00              2.00
        2            60.00              0.00
        3            90.00              0.00
        4           125.00              2.00
Manning's 'N' friction factor =   0.030
-----------------------------------------------------------------
Sub-Channel flow  =     26.992(CFS)
  '     '         flow top width =     43.880(Ft.)
  '     '    velocity=    2.501(Ft/s)
  '     '         area =     10.794(Sq.Ft)
  '     '         Froude number =     0.888

Upstream point elevation =   924.000(Ft.)
Downstream point elevation =   913.000(Ft.)
Flow length =   665.000(Ft.)
Travel time  =    4.43 min.
Time of concentration =   29.11 min.
Depth of flow =   0.292(Ft.)
Average velocity =   2.501(Ft/s)
Total irregular channel flow =    26.992(CFS)
Irregular channel normal depth above invert elev. =   0.292(Ft.)
Average velocity of channel(s) =   2.501(Ft/s)
 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.636
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  67.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      1.582(In/Hr) for a    10.0 year storm
Subarea runoff =     16.764(CFS) for     16.660(Ac.)
Total runoff =     33.825(CFS)  Total area =      30.970(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
```

Process from Point/Station 303.000 to Point/Station 304.000
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****

Estimated mean flow rate at midpoint of channel = 36.932(CFS)
Depth of flow = 0.373(Ft.), Average velocity = 2.778(Ft/s)

******* Irregular Channel Data ***********

Information entered for subchannel number 1 :

Point number	'X' coordinate	'Y' coordinate
1	0.00	3.00
2	35.00	0.00
3	65.00	0.00
4	120.00	3.00

Manning's 'N' friction factor = 0.030

Sub-Channel flow = 36.932(CFS)
' ' flow top width = 41.203(Ft.)
' ' velocity= 2.778(Ft/s)
' ' area = 13.294(Sq.Ft)
' ' Froude number = 0.862

Upstream point elevation = 913.000(Ft.)
Downstream point elevation = 896.000(Ft.)
Flow length = 1195.000(Ft.)
Travel time = 7.17 min.
Time of concentration = 36.28 min.
Depth of flow = 0.373(Ft.)
Average velocity = 2.778(Ft/s)
Total irregular channel flow = 36.932(CFS)
Irregular channel normal depth above invert elev. = 0.373(Ft.)
Average velocity of channel(s) = 2.778(Ft/s)
Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.612
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 67.00
Pervious area fraction = 1.000; Impervious fraction = 0.000
Rainfall intensity = 1.392(In/Hr) for a 10.0 year storm
Subarea runoff = 4.846(CFS) for 5.690(Ac.)
Total runoff = 38.670(CFS) Total area = 36.660(Ac.)
End of computations, total study area = 36.66 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 1.000
Area averaged RI index number = 67.0

APPENDIX B: ON-SITE PROPOSED CONDITION HYDROLOGY CALCULATIONS (RATIONAL TABLING METHOD)

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 06/02/17 File:AREAA.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "A"
100YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 100.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity = 1.600(In/Hr)
Slope of intensity duration curve = 0.5800

++
Process from Point/Station 100.000 to Point/Station 101.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 780.000(Ft.)
Top (of initial area) elevation = 939.000(Ft.)
Bottom (of initial area) elevation = 922.900(Ft.)
Difference in elevation = 16.100(Ft.)
Slope = 0.02064 s(percent)= 2.06
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 9.354 min.
Rainfall intensity = 4.702(In/Hr) for a 100.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.866
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Initial subarea runoff = 2.606(CFS)
Total initial stream area = 0.640(Ac.)
Pervious area fraction = 0.100

++
Process from Point/Station 101.000 to Point/Station 102.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 922.900(Ft.)
End of street segment elevation = 890.300(Ft.)
Length of street segment = 1835.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 20.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.020
Slope from grade break to crown (v/hz) = 0.020
Street flow is on [1] side(s) of the street
Distance from curb to property line = 10.000(Ft.)

AREAA
Slope from curb to property line (v/hz) = 0.020
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 2.000(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0150
Manning's N from grade break to crown = 0.0150
Estimated mean flow rate at midpoint of street = 5.233(CFS)
Depth of flow = 0.380(Ft.), Average velocity = 3.316(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 12.147(Ft.)
Flow velocity = 3.32(Ft/s)
Travel time = 9.22 min. TC = 18.58 min.
Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.857
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Rainfall intensity = 3.158(In/Hr) for a 100.0 year storm
Subarea runoff = 3.493(CFS) for 1.290(Ac.)
Total runoff = 6.100(CFS) Total area = 1.930(Ac.)
Street flow at end of street = 6.100(CFS)
Half street flow at end of street = 6.100(CFS)
Depth of flow = 0.395(Ft.), Average velocity = 3.440(Ft/s)
Flow width (from curb towards crown)= 12.925(Ft.)
End of computations, total study area = 1.93 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number = 32.0

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 05/31/17 File:AREAB.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "B"
100YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 100.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity = 1.600(In/Hr)
Slope of intensity duration curve = 0.5800

++

Process from Point/Station 200.000 to Point/Station 203.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 980.000(Ft.)
Top (of initial area) elevation = 943.900(Ft.)
Bottom (of initial area) elevation = 930.700(Ft.)
Difference in elevation = 13.200(Ft.)
Slope = 0.01347 s(percent)= 1.35
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 11.162 min.
Rainfall intensity = 4.244(In/Hr) for a 100.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.864
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Initial subarea runoff = 13.419(CFS)
Total initial stream area = 3.660(Ac.)
Pervious area fraction = 0.100

++

Process from Point/Station 200.000 to Point/Station 203.000
**** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area = 3.660(Ac.)
Runoff from this stream = 13.419(CFS)
Time of concentration = 11.16 min.
Rainfall intensity = 4.244(In/Hr)
Program is now starting with Main Stream No. 2

++

```
Process from Point/Station      201.000 to Point/Station      202.000
**** INITIAL AREA EVALUATION ****
----------------------------------------------------------------------
Initial area flow distance =   660.000(Ft.)
Top (of initial area) elevation =   945.500(Ft.)
Bottom (of initial area) elevation =   936.000(Ft.)
Difference in elevation =     9.500(Ft.)
Slope =    0.01439  s(percent)=       1.44
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    9.404 min.
Rainfall intensity =      4.687(In/Hr) for a   100.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.866
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Initial subarea runoff =     11.489(CFS)
Total initial stream area =        2.830(Ac.)
Pervious area fraction = 0.100


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      202.000 to Point/Station      203.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****
----------------------------------------------------------------------
Top of street segment elevation =   936.000(Ft.)
End of street segment elevation =   930.700(Ft.)
Length of street segment  =   635.000(Ft.)
Height of curb above gutter flowline  =   12.0(In.)
Width of half street (curb to crown)  =  49.000(Ft.)
Distance from crown to crossfall grade break  =   0.500(Ft.)
Slope from gutter to grade break (v/hz) =   0.015
Slope from grade break to crown (v/hz)  =   0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line  =  15.000(Ft.)
Slope from curb to property line (v/hz) =   0.020
Gutter width =   1.500(Ft.)
Gutter hike from flowline =  2.000(In.)
 Manning's N in gutter =  0.0150
 Manning's N from gutter to grade break =  0.0150
 Manning's N from grade break to crown =  0.0150
Estimated mean flow rate at midpoint of street =     20.644(CFS)
Depth of flow =   0.577(Ft.), Average velocity =   3.254(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width =  28.834(Ft.)
Flow velocity =   3.25(Ft/s)
Travel time =    3.25 min.     TC =   12.66  min.
 Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.862
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Rainfall intensity =      3.946(In/Hr) for a   100.0 year storm
Subarea runoff =     15.346(CFS) for      4.510(Ac.)
Total runoff =     26.835(CFS)  Total area =       7.340(Ac.)
Street flow at end of street =     26.835(CFS)
Half street flow at end of street =     26.835(CFS)
Depth of flow =   0.622(Ft.), Average velocity =   3.473(Ft/s)
Flow width (from curb towards crown)=  31.872(Ft.)


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Process from Point/Station      202.000 to Point/Station      203.000
**** CONFLUENCE OF MAIN STREAMS ****
----------------------------------------------------------------------
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =      7.340(Ac.)
Runoff from this stream =     26.835(CFS)
Time of concentration =   12.66 min.
Rainfall intensity =     3.946(In/Hr)
Summary of stream data:
```

```
Stream   Flow rate      TC            Rainfall Intensity
 No.       (CFS)       (min)                 (In/Hr)


1       13.419     11.16                 4.244
2       26.835     12.66                 3.946
Largest stream flow has longer time of concentration
Qp =     26.835 + sum of
          Qb         Ia/Ib
          13.419 *    0.930 =     12.477
Qp =     39.312

Total of 2 main streams to confluence:
Flow rates before confluence point:
      13.419      26.835
Area of streams before confluence:
        3.660        7.340


Results of confluence:
Total flow rate =     39.312(CFS)
Time of concentration =    12.656 min.
Effective stream area after confluence  =     11.000(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      203.000 to Point/Station      206.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****
________________________________________________________________________
Top of street segment elevation =   930.700(Ft.)
End of street segment elevation =   919.000(Ft.)
Length of street segment  =   775.000(Ft.)
Height of curb above gutter flowline  =   12.0(In.)
Width of half street (curb to crown)  =  49.000(Ft.)
Distance from crown to crossfall grade break  =   0.500(Ft.)
Slope from gutter to grade break (v/hz) =   0.015
Slope from grade break to crown (v/hz)  =   0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line  =  15.000(Ft.)
Slope from curb to property line (v/hz) =   0.020
Gutter width =   1.500(Ft.)
Gutter hike from flowline =  2.000(In.)
 Manning's N in gutter =  0.0150
 Manning's N from gutter to grade break =  0.0150
 Manning's N from grade break to crown =  0.0150
Estimated mean flow rate at midpoint of street =     57.984(CFS)
Depth of flow =   0.717(Ft.), Average velocity =   5.255(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width =  38.168(Ft.)
Flow velocity =   5.26(Ft/s)
Travel time =    2.46 min.     TC =   15.11  min.
 Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.860
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Rainfall intensity =      3.560(In/Hr) for a   100.0 year storm
Subarea runoff =     31.995(CFS) for     10.450(Ac.)
Total runoff =     71.306(CFS)  Total area =      21.450(Ac.)
Street flow at end of street =     71.306(CFS)
Half street flow at end of street =     71.306(CFS)
Depth of flow =   0.763(Ft.), Average velocity =   5.533(Ft/s)
Flow width (from curb towards crown)=  41.279(Ft.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      203.000 to Point/Station      206.000
**** CONFLUENCE OF MAIN STREAMS ****
________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =     21.450(Ac.)
Runoff from this stream =     71.306(CFS)
Time of concentration =   15.11 min.
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Rainfall intensity =     3.560(In/Hr)
Program is now starting with Main Stream No. 2


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Process from Point/Station      204.000 to Point/Station      205.000
**** INITIAL AREA EVALUATION ****
------------------------------------------------------------------------------
Initial area flow distance =   740.000(Ft.)
Top (of initial area) elevation =   933.600(Ft.)
Bottom (of initial area) elevation =   922.800(Ft.)
Difference in elevation =    10.800(Ft.)
Slope =    0.01459  s(percent)=       1.46
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    9.817 min.
Rainfall intensity =      4.572(In/Hr) for a   100.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.866
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Initial subarea runoff =     14.009(CFS)
Total initial stream area =        3.540(Ac.)
Pervious area fraction = 0.100


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Process from Point/Station      205.000 to Point/Station      206.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****
------------------------------------------------------------------------------
Top of street segment elevation =   922.800(Ft.)
End of street segment elevation =   919.000(Ft.)
Length of street segment  =   530.000(Ft.)
Height of curb above gutter flowline  =   12.0(In.)
Width of half street (curb to crown)  =  49.000(Ft.)
Distance from crown to crossfall grade break  =   0.500(Ft.)
Slope from gutter to grade break (v/hz) =   0.015
Slope from grade break to crown (v/hz)  =   0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line  =  15.000(Ft.)
Slope from curb to property line (v/hz) =   0.020
Gutter width =   1.500(Ft.)
Gutter hike from flowline =  2.000(In.)
 Manning's N in gutter =  0.0150
 Manning's N from gutter to grade break =  0.0150
 Manning's N from grade break to crown =  0.0150
Estimated mean flow rate at midpoint of street =     16.027(CFS)
Depth of flow =   0.548(Ft.), Average velocity =   2.887(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width =  26.942(Ft.)
Flow velocity =   2.89(Ft/s)
Travel time =    3.06 min.     TC =   12.88  min.
 Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.862
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Rainfall intensity =      3.906(In/Hr) for a   100.0 year storm
Subarea runoff =      3.435(CFS) for      1.020(Ac.)
Total runoff =     17.444(CFS)  Total area =       4.560(Ac.)
Street flow at end of street =     17.444(CFS)
Half street flow at end of street =     17.444(CFS)
Depth of flow =   0.562(Ft.), Average velocity =   2.948(Ft/s)
Flow width (from curb towards crown)=  27.831(Ft.)


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Process from Point/Station      205.000 to Point/Station      206.000
**** CONFLUENCE OF MAIN STREAMS ****
------------------------------------------------------------------------------
The following data inside Main Stream is listed:
In Main Stream number: 2
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Stream flow area =      4.560(Ac.)
Runoff from this stream =     17.444(CFS)
Time of concentration =   12.88 min.
Rainfall intensity =     3.906(In/Hr)
Summary of stream data:

Stream   Flow rate      TC            Rainfall Intensity
 No.       (CFS)       (min)                 (In/Hr)


1       71.306     15.11                  3.560
2       17.444     12.88                  3.906
Largest stream flow has longer time of concentration
Qp =     71.306 + sum of
          Qb          Ia/Ib
          17.444 *    0.911 =     15.896
Qp =     87.203

Total of 2 main streams to confluence:
Flow rates before confluence point:
      71.306      17.444
Area of streams before confluence:
       21.450        4.560


Results of confluence:
Total flow rate =     87.203(CFS)
Time of concentration =    15.114 min.
Effective stream area after confluence  =     26.010(Ac.)


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Process from Point/Station      206.000 to Point/Station      210.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****
________________________________________________________________________
Top of street segment elevation =   919.000(Ft.)
End of street segment elevation =   903.000(Ft.)
Length of street segment  =   810.000(Ft.)
Height of curb above gutter flowline  =   12.0(In.)
Width of half street (curb to crown)  =  49.000(Ft.)
Distance from crown to crossfall grade break  =   0.500(Ft.)
Slope from gutter to grade break (v/hz) =   0.015
Slope from grade break to crown (v/hz)  =   0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line  =  15.000(Ft.)
Slope from curb to property line (v/hz) =   0.020
Gutter width =   1.500(Ft.)
Gutter hike from flowline =  2.000(In.)
 Manning's N in gutter =  0.0150
 Manning's N from gutter to grade break =  0.0150
 Manning's N from grade break to crown =  0.0150
Estimated mean flow rate at midpoint of street =    104.184(CFS)
Depth of flow =   0.823(Ft.), Average velocity =   6.727(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width =  45.284(Ft.)
Flow velocity =   6.73(Ft/s)
Travel time =    2.01 min.     TC =   17.12  min.
 Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.859
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Rainfall intensity =      3.311(In/Hr) for a   100.0 year storm
Subarea runoff =     28.797(CFS) for     10.130(Ac.)
Total runoff =    116.000(CFS)  Total area =      36.140(Ac.)
Street flow at end of street =    116.000(CFS)
Half street flow at end of street =    116.000(CFS)
Depth of flow =   0.852(Ft.), Average velocity =   6.909(Ft/s)
Flow width (from curb towards crown)=  47.160(Ft.)


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Process from Point/Station      206.000 to Point/Station      210.000
**** CONFLUENCE OF MAIN STREAMS ****
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The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =     36.140(Ac.)
Runoff from this stream =    116.000(CFS)
Time of concentration =   17.12 min.
Rainfall intensity =     3.311(In/Hr)
Program is now starting with Main Stream No. 2


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Process from Point/Station      207.000 to Point/Station      208.000
**** INITIAL AREA EVALUATION ****
------------------------------------------------------------------------------
Initial area flow distance =   480.000(Ft.)
Top (of initial area) elevation =   919.000(Ft.)
Bottom (of initial area) elevation =   908.200(Ft.)
Difference in elevation =    10.800(Ft.)
Slope =    0.02250  s(percent)=       2.25
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    7.571 min.
Rainfall intensity =      5.315(In/Hr) for a   100.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.869
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Initial subarea runoff =      3.694(CFS)
Total initial stream area =        0.800(Ac.)
Pervious area fraction = 0.100


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Process from Point/Station      208.000 to Point/Station      209.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****
------------------------------------------------------------------------------
Top of street segment elevation =   908.200(Ft.)
End of street segment elevation =   904.800(Ft.)
Length of street segment  =   505.000(Ft.)
Height of curb above gutter flowline  =   12.0(In.)
Width of half street (curb to crown)  =  49.000(Ft.)
Distance from crown to crossfall grade break  =   0.500(Ft.)
Slope from gutter to grade break (v/hz) =   0.015
Slope from grade break to crown (v/hz)  =   0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line  =  15.000(Ft.)
Slope from curb to property line (v/hz) =   0.020
Gutter width =   1.500(Ft.)
Gutter hike from flowline =  2.000(In.)
 Manning's N in gutter =  0.0150
 Manning's N from gutter to grade break =  0.0150
 Manning's N from grade break to crown =  0.0150
Estimated mean flow rate at midpoint of street =     15.791(CFS)
Depth of flow =   0.551(Ft.), Average velocity =   2.809(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width =  27.114(Ft.)
Flow velocity =   2.81(Ft/s)
Travel time =    3.00 min.     TC =   10.57  min.
 Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.865
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Rainfall intensity =      4.381(In/Hr) for a   100.0 year storm
Subarea runoff =     19.847(CFS) for      5.240(Ac.)
Total runoff =     23.541(CFS)  Total area =       6.040(Ac.)
Street flow at end of street =     23.541(CFS)
Half street flow at end of street =     23.541(CFS)
Depth of flow =   0.618(Ft.), Average velocity =   3.101(Ft/s)
Flow width (from curb towards crown)=  31.588(Ft.)


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Process from Point/Station 209.000 to Point/Station 210.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 904.800(Ft.)
End of street segment elevation = 903.000(Ft.)
Length of street segment = 240.000(Ft.)
Height of curb above gutter flowline = 12.0(In.)
Width of half street (curb to crown) = 49.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 15.000(Ft.)
Slope from curb to property line (v/hz) = 0.020
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 2.000(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0150
Manning's N from grade break to crown = 0.0150
Estimated mean flow rate at midpoint of street = 27.907(CFS)
Depth of flow = 0.639(Ft.), Average velocity = 3.369(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 33.017(Ft.)
Flow velocity = 3.37(Ft/s)
Travel time = 1.19 min. TC = 11.76 min.
Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.863
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Rainfall intensity = 4.118(In/Hr) for a 100.0 year storm
Subarea runoff = 7.964(CFS) for 2.240(Ac.)
Total runoff = 31.505(CFS) Total area = 8.280(Ac.)
Street flow at end of street = 31.505(CFS)
Half street flow at end of street = 31.505(CFS)
Depth of flow = 0.663(Ft.), Average velocity = 3.472(Ft/s)
Flow width (from curb towards crown)= 34.577(Ft.)

++
Process from Point/Station 209.000 to Point/Station 210.000
**** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area = 8.280(Ac.)
Runoff from this stream = 31.505(CFS)
Time of concentration = 11.76 min.
Rainfall intensity = 4.118(In/Hr)
Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	116.000	17.12	3.311
2	31.505	11.76	4.118

Largest stream flow has longer time of concentration
Qp = 116.000 + sum of
Qb Ia/Ib
31.505 * 0.804 = 25.332
Qp = 141.333

Total of 2 main streams to confluence:
Flow rates before confluence point:
116.000 31.505
Area of streams before confluence:
36.140 8.280

Results of confluence:
Total flow rate = 141.333(CFS)
Time of concentration = 17.121 min.
Effective stream area after confluence = 44.420(Ac.)

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Process from Point/Station      210.000 to Point/Station      211.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****
______________________________________________________________________________
Top of street segment elevation =   903.000(Ft.)
End of street segment elevation =   896.400(Ft.)
Length of street segment  =   360.000(Ft.)
Height of curb above gutter flowline  =   12.0(In.)
Width of half street (curb to crown)  =  49.000(Ft.)
Distance from crown to crossfall grade break  =   0.500(Ft.)
Slope from gutter to grade break (v/hz) =   0.015
Slope from grade break to crown (v/hz)  =   0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line  =  15.000(Ft.)
Slope from curb to property line (v/hz) =   0.020
Gutter width =   1.500(Ft.)
Gutter hike from flowline =  2.000(In.)
 Manning's N in gutter =  0.0150
 Manning's N from gutter to grade break =  0.0150
 Manning's N from grade break to crown =  0.0150
Estimated mean flow rate at midpoint of street =    142.351(CFS)
Depth of flow =   0.912(Ft.), Average velocity =   7.220(Ft/s)
Note:  depth of flow exceeds top of street crown.
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width =  49.000(Ft.)
Flow velocity =   7.22(Ft/s)
Travel time =    0.83 min.     TC =   17.95  min.
 Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.858
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Rainfall intensity =      3.222(In/Hr) for a   100.0 year storm
Subarea runoff =      1.769(CFS) for      0.640(Ac.)
Total runoff =    143.101(CFS)  Total area =      45.060(Ac.)
Street flow at end of street =    143.101(CFS)
Half street flow at end of street =    143.101(CFS)
Depth of flow =   0.913(Ft.), Average velocity =   7.235(Ft/s)
Note:  depth of flow exceeds top of street crown.
Flow width (from curb towards crown)=  49.000(Ft.)


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Process from Point/Station      211.000 to Point/Station      214.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****
______________________________________________________________________________
Top of street segment elevation =   896.400(Ft.)
End of street segment elevation =   891.200(Ft.)
Length of street segment  =   265.000(Ft.)
Height of curb above gutter flowline  =   12.0(In.)
Width of half street (curb to crown)  =  49.000(Ft.)
Distance from crown to crossfall grade break  =   0.500(Ft.)
Slope from gutter to grade break (v/hz) =   0.015
Slope from grade break to crown (v/hz)  =   0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line  =  15.000(Ft.)
Slope from curb to property line (v/hz) =   0.020
Gutter width =   1.500(Ft.)
Gutter hike from flowline =  2.000(In.)
 Manning's N in gutter =  0.0150
 Manning's N from gutter to grade break =  0.0150
 Manning's N from grade break to crown =  0.0150
Estimated mean flow rate at midpoint of street =    143.736(CFS)
Depth of flow =   0.906(Ft.), Average velocity =   7.398(Ft/s)
Note:  depth of flow exceeds top of street crown.
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width =  49.000(Ft.)
Flow velocity =   7.40(Ft/s)
Travel time =    0.60 min.     TC =   18.55  min.
 Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.857
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
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Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Rainfall intensity =      3.161(In/Hr) for a   100.0 year storm
Subarea runoff =      1.084(CFS) for      0.400(Ac.)
Total runoff =    144.185(CFS)  Total area =      45.460(Ac.)
Street flow at end of street =    144.185(CFS)
Half street flow at end of street =    144.185(CFS)
Depth of flow =   0.907(Ft.), Average velocity =   7.407(Ft/s)
Note:  depth of flow exceeds top of street crown.
Flow width (from curb towards crown)=  49.000(Ft.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      211.000 to Point/Station      214.000
**** CONFLUENCE OF MAIN STREAMS ****
______________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =     45.460(Ac.)
Runoff from this stream =    144.185(CFS)
Time of concentration =   18.55 min.
Rainfall intensity =     3.161(In/Hr)
Program is now starting with Main Stream No. 2


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      212.000 to Point/Station      213.000
**** INITIAL AREA EVALUATION ****
______________________________________________________________________________
Initial area flow distance =  1000.000(Ft.)
Top (of initial area) elevation =   914.600(Ft.)
Bottom (of initial area) elevation =   897.600(Ft.)
Difference in elevation =    17.000(Ft.)
Slope =    0.01700  s(percent)=       1.70
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =   10.741 min.
Rainfall intensity =      4.340(In/Hr) for a   100.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.864
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Initial subarea runoff =      5.590(CFS)
Total initial stream area =        1.490(Ac.)
Pervious area fraction = 0.100


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      213.000 to Point/Station      214.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****
______________________________________________________________________________
Top of street segment elevation =   897.600(Ft.)
End of street segment elevation =   891.200(Ft.)
Length of street segment  =   940.000(Ft.)
Height of curb above gutter flowline  =    6.0(In.)
Width of half street (curb to crown)  =  30.000(Ft.)
Distance from crown to crossfall grade break  =   0.500(Ft.)
Slope from gutter to grade break (v/hz) =   0.020
Slope from grade break to crown (v/hz)  =   0.020
Street flow is on [1] side(s) of the street
Distance from curb to property line  =  15.000(Ft.)
Slope from curb to property line (v/hz) =   0.020
Gutter width =   1.500(Ft.)
Gutter hike from flowline =  2.000(In.)
 Manning's N in gutter =  0.0150
 Manning's N from gutter to grade break =  0.0150
 Manning's N from grade break to crown =  0.0150
Estimated mean flow rate at midpoint of street =      6.884(CFS)
Depth of flow =   0.465(Ft.), Average velocity =   2.464(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width =  16.405(Ft.)
Flow velocity =   2.46(Ft/s)
Travel time =    6.36 min.     TC =   17.10  min.
 Adding area flow to street
```

```
COMMERCIAL subarea type
Runoff Coefficient = 0.859
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Rainfall intensity =      3.314(In/Hr) for a   100.0 year storm
Subarea runoff =      1.963(CFS) for      0.690(Ac.)
Total runoff =      7.553(CFS)  Total area =       2.180(Ac.)
Street flow at end of street =      7.553(CFS)
Half street flow at end of street =      7.553(CFS)
Depth of flow =   0.477(Ft.), Average velocity =   2.520(Ft/s)
Flow width (from curb towards crown)=  17.012(Ft.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      213.000 to Point/Station      214.000
**** CONFLUENCE OF MAIN STREAMS ****
------------------------------------------------------------------------------
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =      2.180(Ac.)
Runoff from this stream =      7.553(CFS)
Time of concentration =   17.10 min.
Rainfall intensity =     3.314(In/Hr)
Summary of stream data:

Stream   Flow rate      TC            Rainfall Intensity
 No.       (CFS)       (min)                 (In/Hr)


1      144.185     18.55                  3.161
2        7.553     17.10                  3.314
Largest stream flow has longer time of concentration
Qp =    144.185 + sum of
          Qb         Ia/Ib
           7.553 *    0.954 =      7.204
Qp =    151.390

Total of 2 main streams to confluence:
Flow rates before confluence point:
     144.185       7.553
Area of streams before confluence:
       45.460        2.180


Results of confluence:
Total flow rate =    151.390(CFS)
Time of concentration =    18.549 min.
Effective stream area after confluence  =     47.640(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      214.000 to Point/Station      215.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****
------------------------------------------------------------------------------
Top of street segment elevation =   891.200(Ft.)
End of street segment elevation =   889.400(Ft.)
Length of street segment  =   315.000(Ft.)
Height of curb above gutter flowline  =    6.0(In.)
Width of half street (curb to crown)  =  30.000(Ft.)
Distance from crown to crossfall grade break  =   0.500(Ft.)
Slope from gutter to grade break (v/hz) =   0.020
Slope from grade break to crown (v/hz)  =   0.020
Street flow is on [1] side(s) of the street
Distance from curb to property line  =  15.000(Ft.)
Slope from curb to property line (v/hz) =   0.020
Gutter width =   1.500(Ft.)
Gutter hike from flowline =  2.000(In.)
 Manning's N in gutter =  0.0150
 Manning's N from gutter to grade break =  0.0150
 Manning's N from grade break to crown =  0.0150
Estimated mean flow rate at midpoint of street =    151.787(CFS)
Depth of flow =   1.128(Ft.), Average velocity =   5.418(Ft/s)
Warning: depth of flow exceeds top of curb
Note:  depth of flow exceeds top of street crown.
Distance that curb overflow reaches into property =   31.40(Ft.)
```

```
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width =  30.000(Ft.)
Flow velocity =   5.42(Ft/s)
Travel time =    0.97 min.     TC =   19.52  min.
 Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.857
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Rainfall intensity =      3.069(In/Hr) for a   100.0 year storm
Subarea runoff =      0.657(CFS) for      0.250(Ac.)
Total runoff =    152.047(CFS)  Total area =      47.890(Ac.)
Street flow at end of street =    152.047(CFS)
Half street flow at end of street =    152.047(CFS)
Depth of flow =   1.129(Ft.), Average velocity =   5.422(Ft/s)
Warning: depth of flow exceeds top of curb
Note:  depth of flow exceeds top of street crown.
Distance that curb overflow reaches into property =   31.43(Ft.)
Flow width (from curb towards crown)=  30.000(Ft.)
End of computations, total study area =           47.89 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number =  32.0
```

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 02/08/17 File:AREAC.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "C"
100YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 100.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity = 1.600(In/Hr)
Slope of intensity duration curve = 0.5800

++
Process from Point/Station 300.000 to Point/Station 301.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 860.000(Ft.)
Top (of initial area) elevation = 915.200(Ft.)
Bottom (of initial area) elevation = 903.500(Ft.)
Difference in elevation = 11.700(Ft.)
Slope = 0.01360 s(percent)= 1.36
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 10.573 min.
Rainfall intensity = 4.379(In/Hr) for a 100.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.865
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Initial subarea runoff = 17.760(CFS)
Total initial stream area = 4.690(Ac.)
Pervious area fraction = 0.100
End of computations, total study area = 4.69 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number = 32.0

Riverside County Rational Hydrology Program

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Rational Hydrology Study Date: 02/14/17 File:AREAD.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "D"
100YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 100.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity = 1.600(In/Hr)
Slope of intensity duration curve = 0.5800

++

Process from Point/Station 204.000 to Point/Station 401.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 655.000(Ft.)
Top (of initial area) elevation = 933.600(Ft.)
Bottom (of initial area) elevation = 922.600(Ft.)
Difference in elevation = 11.000(Ft.)
Slope = 0.01679 s(percent)= 1.68
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 9.090 min.
Rainfall intensity = 4.780(In/Hr) for a 100.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.867
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Initial subarea runoff = 9.859(CFS)
Total initial stream area = 2.380(Ac.)
Pervious area fraction = 0.100
End of computations, total study area = 2.38 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number = 32.0

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 02/14/17 File:AREAE.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "E"
100YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 100.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity = 1.600(In/Hr)
Slope of intensity duration curve = 0.5800

++
Process from Point/Station 500.000 to Point/Station 501.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 575.000(Ft.)
Top (of initial area) elevation = 923.300(Ft.)
Bottom (of initial area) elevation = 918.600(Ft.)
Difference in elevation = 4.700(Ft.)
Slope = 0.00817 s(percent)= 0.82
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 9.966 min.
Rainfall intensity = 4.532(In/Hr) for a 100.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.865
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Initial subarea runoff = 10.001(CFS)
Total initial stream area = 2.550(Ac.)
Pervious area fraction = 0.100

++
Process from Point/Station 501.000 to Point/Station 502.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 918.600(Ft.)
End of street segment elevation = 913.500(Ft.)
Length of street segment = 255.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 20.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.020
Slope from grade break to crown (v/hz) = 0.020
Street flow is on [1] side(s) of the street
Distance from curb to property line = 10.000(Ft.)

AREAE
Slope from curb to property line (v/hz) = 0.020
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 2.000(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0150
Manning's N from grade break to crown = 0.0150
Estimated mean flow rate at midpoint of street = 13.806(CFS)
Depth of flow = 0.486(Ft.), Average velocity = 4.389(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 17.445(Ft.)
Flow velocity = 4.39(Ft/s)
Travel time = 0.97 min. TC = 10.93 min.
Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.864
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Rainfall intensity = 4.295(In/Hr) for a 100.0 year storm
Subarea runoff = 7.201(CFS) for 1.940(Ac.)
Total runoff = 17.202(CFS) Total area = 4.490(Ac.)
Street flow at end of street = 17.202(CFS)
Half street flow at end of street = 17.202(CFS)
Depth of flow = 0.521(Ft.), Average velocity = 4.519(Ft/s)
Warning: depth of flow exceeds top of curb
Distance that curb overflow reaches into property = 1.05(Ft.)
Flow width (from curb towards crown)= 19.218(Ft.)
End of computations, total study area = 4.49 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number = 32.0

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 05/31/17 File:AREAF.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "F"
100YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 100.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity = 1.600(In/Hr)
Slope of intensity duration curve = 0.5800

++
Process from Point/Station 201.000 to Point/Station 601.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 925.000(Ft.)
Top (of initial area) elevation = 945.500(Ft.)
Bottom (of initial area) elevation = 937.300(Ft.)
Difference in elevation = 8.200(Ft.)
Slope = 0.00886 s(percent)= 0.89
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 11.859 min.
Rainfall intensity = 4.097(In/Hr) for a 100.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.863
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Initial subarea runoff = 18.710(CFS)
Total initial stream area = 5.290(Ac.)
Pervious area fraction = 0.100

++
Process from Point/Station 601.000 to Point/Station 602.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 937.300(Ft.)
End of street segment elevation = 930.000(Ft.)
Length of street segment = 390.000(Ft.)
Height of curb above gutter flowline = 8.0(In.)
Width of half street (curb to crown) = 20.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.020
Slope from grade break to crown (v/hz) = 0.020
Street flow is on [1] side(s) of the street
Distance from curb to property line = 10.000(Ft.)

AREAF
Slope from curb to property line (v/hz) = 0.020
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 2.000(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0150
 Manning's N from grade break to crown = 0.0150
Estimated mean flow rate at midpoint of street = 22.919(CFS)
Depth of flow = 0.561(Ft.), Average velocity = 4.989(Ft/s)
Note: depth of flow exceeds top of street crown.
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 20.000(Ft.)
Flow velocity = 4.99(Ft/s)
Travel time = 1.30 min. TC = 13.16 min.
 Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.862
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Rainfall intensity = 3.857(In/Hr) for a 100.0 year storm
Subarea runoff = 7.912(CFS) for 2.380(Ac.)
Total runoff = 26.622(CFS) Total area = 7.670(Ac.)
Street flow at end of street = 26.622(CFS)
Half street flow at end of street = 26.622(CFS)
Depth of flow = 0.583(Ft.), Average velocity = 5.294(Ft/s)
Note: depth of flow exceeds top of street crown.
Flow width (from curb towards crown)= 20.000(Ft.)
End of computations, total study area = 7.67 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number = 32.0

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 05/31/17 File:AREAG.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "G"
100YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 100.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity = 1.600(In/Hr)
Slope of intensity duration curve = 0.5800

++

Process from Point/Station 700.000 to Point/Station 701.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 815.000(Ft.)
Top (of initial area) elevation = 948.400(Ft.)
Bottom (of initial area) elevation = 930.000(Ft.)
Difference in elevation = 18.400(Ft.)
Slope = 0.02258 s(percent)= 2.26
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 9.351 min.
Rainfall intensity = 4.703(In/Hr) for a 100.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.866
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Initial subarea runoff = 2.648(CFS)
Total initial stream area = 0.650(Ac.)
Pervious area fraction = 0.100
End of computations, total study area = 0.65 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number = 32.0

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 05/31/17 File:AREAH.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "H"
100YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 100.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity = 1.600(In/Hr)
Slope of intensity duration curve = 0.5800

++
Process from Point/Station 800.000 to Point/Station 801.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 1000.000(Ft.)
Top (of initial area) elevation = 961.500(Ft.)
Bottom (of initial area) elevation = 933.600(Ft.)
Difference in elevation = 27.900(Ft.)
Slope = 0.02790 s(percent)= 2.79
TC = k(0.398)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 12.899 min.
Rainfall intensity = 3.902(In/Hr) for a 100.0 year storm
USER INPUT of soil data for subarea
Runoff Coefficient = 0.711
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.500; Impervious fraction = 0.500
Initial subarea runoff = 17.528(CFS)
Total initial stream area = 6.320(Ac.)
Pervious area fraction = 0.500
End of computations, total study area = 6.32 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.500
Area averaged RI index number = 32.0

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 02/14/17 File:AREAI.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "I"
100YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 100.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity = 1.600(In/Hr)
Slope of intensity duration curve = 0.5800

++
Process from Point/Station 900.000 to Point/Station 502.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 875.000(Ft.)
Top (of initial area) elevation = 930.400(Ft.)
Bottom (of initial area) elevation = 913.500(Ft.)
Difference in elevation = 16.900(Ft.)
Slope = 0.01931 s(percent)= 1.93
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 9.925 min.
Rainfall intensity = 4.543(In/Hr) for a 100.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.865
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Initial subarea runoff = 5.897(CFS)
Total initial stream area = 1.500(Ac.)
Pervious area fraction = 0.100
End of computations, total study area = 1.50 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number = 32.0

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 02/14/17 File:AREAJ.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "J"
100YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 100.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity = 1.600(In/Hr)
Slope of intensity duration curve = 0.5800

++
Process from Point/Station 1000.000 to Point/Station 1001.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 320.000(Ft.)
Top (of initial area) elevation = 927.000(Ft.)
Bottom (of initial area) elevation = 925.900(Ft.)
Difference in elevation = 1.100(Ft.)
Slope = 0.00344 s(percent)= 0.34
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 9.374 min.
Rainfall intensity = 4.696(In/Hr) for a 100.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.866
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Initial subarea runoff = 3.661(CFS)
Total initial stream area = 0.900(Ac.)
Pervious area fraction = 0.100
End of computations, total study area = 0.90 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number = 32.0

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 02/14/17 File:AREAK.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "K"
100YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 100.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity = 1.600(In/Hr)
Slope of intensity duration curve = 0.5800

++
Process from Point/Station 1100.000 to Point/Station 1101.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 645.000(Ft.)
Top (of initial area) elevation = 938.900(Ft.)
Bottom (of initial area) elevation = 929.500(Ft.)
Difference in elevation = 9.400(Ft.)
Slope = 0.01457 s(percent)= 1.46
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 9.295 min.
Rainfall intensity = 4.719(In/Hr) for a 100.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.866
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Initial subarea runoff = 12.387(CFS)
Total initial stream area = 3.030(Ac.)
Pervious area fraction = 0.100

++
Process from Point/Station 1101.000 to Point/Station 1102.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 929.500(Ft.)
End of street segment elevation = 926.900(Ft.)
Length of street segment = 525.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 49.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.010
Slope from grade break to crown (v/hz) = 0.010
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)

AREAK
Slope from curb to property line (v/hz) = 0.000
Gutter width = 0.000(Ft.)
Gutter hike from flowline = 0.000(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0150
Manning's N from grade break to crown = 0.0150
Estimated mean flow rate at midpoint of street = 20.849(CFS)
Depth of flow = 0.415(Ft.), Average velocity = 2.426(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 41.460(Ft.)
Flow velocity = 2.43(Ft/s)
Travel time = 3.61 min. TC = 12.90 min.
Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.862
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Rainfall intensity = 3.902(In/Hr) for a 100.0 year storm
Subarea runoff = 13.927(CFS) for 4.140(Ac.)
Total runoff = 26.313(CFS) Total area = 7.170(Ac.)
Street flow at end of street = 26.313(CFS)
Half street flow at end of street = 26.313(CFS)
Depth of flow = 0.452(Ft.), Average velocity = 2.571(Ft/s)
Flow width (from curb towards crown)= 45.242(Ft.)
End of computations, total study area = 7.17 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number = 32.0

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 02/14/17 File:AREAL.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "L"
100YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 100.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity = 1.600(In/Hr)
Slope of intensity duration curve = 0.5800

++
Process from Point/Station 1200.000 to Point/Station 1201.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 550.000(Ft.)
Top (of initial area) elevation = 909.200(Ft.)
Bottom (of initial area) elevation = 902.600(Ft.)
Difference in elevation = 6.600(Ft.)
Slope = 0.01200 s(percent)= 1.20
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 9.066 min.
Rainfall intensity = 4.788(In/Hr) for a 100.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.867
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Initial subarea runoff = 9.999(CFS)
Total initial stream area = 2.410(Ac.)
Pervious area fraction = 0.100

++
Process from Point/Station 1201.000 to Point/Station 1202.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 902.600(Ft.)
End of street segment elevation = 900.300(Ft.)
Length of street segment = 485.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 49.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.010
Slope from grade break to crown (v/hz) = 0.010
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)

AREAL
Slope from curb to property line (v/hz) = 0.000
Gutter width = 0.000(Ft.)
Gutter hike from flowline = 0.000(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0150
Manning's N from grade break to crown = 0.0150
Estimated mean flow rate at midpoint of street = 18.421(CFS)
Depth of flow = 0.399(Ft.), Average velocity = 2.314(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 39.902(Ft.)
Flow velocity = 2.31(Ft/s)
Travel time = 3.49 min. TC = 12.56 min.
Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.862
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Rainfall intensity = 3.963(In/Hr) for a 100.0 year storm
Subarea runoff = 13.878(CFS) for 4.060(Ac.)
Total runoff = 23.876(CFS) Total area = 6.470(Ac.)
Street flow at end of street = 23.876(CFS)
Half street flow at end of street = 23.876(CFS)
Depth of flow = 0.440(Ft.), Average velocity = 2.469(Ft/s)
Flow width (from curb towards crown)= 43.979(Ft.)
End of computations, total study area = 6.47 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number = 32.0

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 02/17/17 File:AREAM.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "M"
100YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 100.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity = 1.600(In/Hr)
Slope of intensity duration curve = 0.5800

++

Process from Point/Station 1100.000 to Point/Station 1301.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 565.000(Ft.)
Top (of initial area) elevation = 938.900(Ft.)
Bottom (of initial area) elevation = 933.100(Ft.)
Difference in elevation = 5.800(Ft.)
Slope = 0.01027 s(percent)= 1.03
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 9.455 min.
Rainfall intensity = 4.673(In/Hr) for a 100.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.866
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Initial subarea runoff = 9.671(CFS)
Total initial stream area = 2.390(Ac.)
Pervious area fraction = 0.100
End of computations, total study area = 2.39 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number = 32.0

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 06/01/17 File:AREAN.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "N"
100YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 100.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity = 1.600(In/Hr)
Slope of intensity duration curve = 0.5800

++
Process from Point/Station 100.000 to Point/Station 1400.000
**** USER DEFINED FLOW INFORMATION AT A POINT ****

Rainfall intensity = 1.758(In/Hr) for a 100.0 year storm
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.655
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 67.00
Pervious area fraction = 1.000; Impervious fraction = 0.000
User specified values are as follows:
TC = 51.00 min. Rain intensity = 1.76(In/Hr)
Total area = 181.95(Ac.) Total runoff = 334.20(CFS)

++
Process from Point/Station 1400.000 to Point/Station 1401.000
**** IMPROVED CHANNEL TRAVEL TIME ****

Upstream point elevation = 945.600(Ft.)
Downstream point elevation = 938.800(Ft.)
Channel length thru subarea = 410.000(Ft.)
Channel base width = 4.000(Ft.)
Slope or 'Z' of left channel bank = 1.000
Slope or 'Z' of right channel bank = 1.000
Estimated mean flow rate at midpoint of channel = 335.458(CFS)
Manning's 'N' = 0.015
Maximum depth of channel = 6.000(Ft.)
Flow(q) thru subarea = 335.458(CFS)
Depth of flow = 2.815(Ft.), Average velocity = 17.482(Ft/s)
Channel flow top width = 9.631(Ft.)
Flow Velocity = 17.48(Ft/s)
Travel time = 0.39 min.
Time of concentration = 51.39 min.

Sub-Channel No. 1 Critical depth = 4.250(Ft.)

```
                                        AREAN
  '     '       '     Critical flow top width =     12.500(Ft.)
  '     '       '     Critical flow velocity=    9.567(Ft/s)
  '     '       '     Critical flow area =     35.063(Sq.Ft)

 Adding area flow to channel
COMMERCIAL subarea type
Runoff Coefficient = 0.844
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Rainfall intensity =      1.750(In/Hr) for a   100.0 year storm
Subarea runoff =      2.025(CFS) for      1.370(Ac.)
Total runoff =    336.225(CFS)  Total area =     183.320(Ac.)
End of computations, total study area =          183.32 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.993
Area averaged RI index number =  66.7
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Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 06/02/17 File:AREAO.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "O"
100YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 100.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity = 1.600(In/Hr)
Slope of intensity duration curve = 0.5800

++

Process from Point/Station 200.000 to Point/Station 1400.000
**** USER DEFINED FLOW INFORMATION AT A POINT ****

Rainfall intensity = 3.000(In/Hr) for a 100.0 year storm
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.738
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 67.00
Pervious area fraction = 1.000; Impervious fraction = 0.000
User specified values are as follows:
TC = 20.30 min. Rain intensity = 3.00(In/Hr)
Total area = 16.61(Ac.) Total runoff = 50.70(CFS)

++

Process from Point/Station 1400.000 to Point/Station 1501.000
**** IMPROVED CHANNEL TRAVEL TIME ****

Upstream point elevation = 945.600(Ft.)
Downstream point elevation = 935.600(Ft.)
Channel length thru subarea = 975.000(Ft.)
Channel base width = 4.000(Ft.)
Slope or 'Z' of left channel bank = 2.000
Slope or 'Z' of right channel bank = 2.000
Estimated mean flow rate at midpoint of channel = 52.806(CFS)
Manning's 'N' = 0.035
Maximum depth of channel = 3.500(Ft.)
Flow(q) thru subarea = 52.806(CFS)
Depth of flow = 1.635(Ft.), Average velocity = 4.444(Ft/s)
Channel flow top width = 10.539(Ft.)
Flow Velocity = 4.44(Ft/s)
Travel time = 3.66 min.
Time of concentration = 23.96 min.

Sub-Channel No. 1 Critical depth = 1.391(Ft.)

```
                                        AREAO
  '     '       '     Critical flow top width =      9.563(Ft.)
  '     '       '     Critical flow velocity=    5.600(Ft/s)
  '     '       '     Critical flow area =      9.430(Sq.Ft)

 Adding area flow to channel
COMMERCIAL subarea type
Runoff Coefficient = 0.854
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Rainfall intensity =      2.725(In/Hr) for a   100.0 year storm
Subarea runoff =      3.212(CFS) for      1.380(Ac.)
Total runoff =     53.912(CFS)  Total area =      17.990(Ac.)
End of computations, total study area =           17.99 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.931
Area averaged RI index number =  64.3
```

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 05/31/17 File:AREAP.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "P"
100YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 100.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity = 1.600(In/Hr)
Slope of intensity duration curve = 0.5800

++
Process from Point/Station 1600.000 to Point/Station 1601.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 975.000(Ft.)
Top (of initial area) elevation = 901.400(Ft.)
Bottom (of initial area) elevation = 894.900(Ft.)
Difference in elevation = 6.500(Ft.)
Slope = 0.00667 s(percent)= 0.67
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 12.822 min.
Rainfall intensity = 3.916(In/Hr) for a 100.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.862
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Initial subarea runoff = 16.139(CFS)
Total initial stream area = 4.780(Ac.)
Pervious area fraction = 0.100
End of computations, total study area = 4.78 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number = 32.0

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 06/02/17 File:AREAQ.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "Q"
100YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 100.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity = 1.600(In/Hr)
Slope of intensity duration curve = 0.5800

++
Process from Point/Station 300.000 to Point/Station 1700.000
**** USER DEFINED FLOW INFORMATION AT A POINT ****

Rainfall intensity = 2.373(In/Hr) for a 100.0 year storm
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.705
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 67.00
Pervious area fraction = 1.000; Impervious fraction = 0.000
User specified values are as follows:
TC = 30.40 min. Rain intensity = 2.37(In/Hr)
Total area = 37.12(Ac.) Total runoff = 96.40(CFS)

++
Process from Point/Station 1700.000 to Point/Station 1701.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 940.600(Ft.)
End of street segment elevation = 937.600(Ft.)
Length of street segment = 200.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 20.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.020
Slope from grade break to crown (v/hz) = 0.020
Street flow is on [1] side(s) of the street
Distance from curb to property line = 10.000(Ft.)
Slope from curb to property line (v/hz) = 0.020
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 2.000(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0150
Manning's N from grade break to crown = 0.0150
Estimated mean flow rate at midpoint of street = 96.764(CFS)

Depth of flow = 0.876(Ft.), Average velocity = 7.094(Ft/s)
Warning: depth of flow exceeds top of curb
Note: depth of flow exceeds top of street crown.
Distance that curb overflow reaches into property = 18.79(Ft.)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 20.000(Ft.)
Flow velocity = 7.09(Ft/s)
Travel time = 0.47 min. TC = 30.87 min.
Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.851
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Rainfall intensity = 2.352(In/Hr) for a 100.0 year storm
Subarea runoff = 0.560(CFS) for 0.280(Ac.)
Total runoff = 96.960(CFS) Total area = 37.400(Ac.)
Street flow at end of street = 96.960(CFS)
Half street flow at end of street = 96.960(CFS)
Depth of flow = 0.876(Ft.), Average velocity = 7.099(Ft/s)
Warning: depth of flow exceeds top of curb
Note: depth of flow exceeds top of street crown.
Distance that curb overflow reaches into property = 18.81(Ft.)
Flow width (from curb towards crown)= 20.000(Ft.)
End of computations, total study area = 37.40 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.993
Area averaged RI index number = 66.7

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 06/02/17 File:AREAA.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "A"
10YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 10.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 10.0
Calculated rainfall intensity data:
1 hour intensity = 1.040(In/Hr)
Slope of intensity duration curve = 0.5800

++
Process from Point/Station 100.000 to Point/Station 101.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 780.000(Ft.)
Top (of initial area) elevation = 939.000(Ft.)
Bottom (of initial area) elevation = 922.900(Ft.)
Difference in elevation = 16.100(Ft.)
Slope = 0.02064 s(percent)= 2.06
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 9.354 min.
Rainfall intensity = 3.056(In/Hr) for a 10.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.857
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Initial subarea runoff = 1.676(CFS)
Total initial stream area = 0.640(Ac.)
Pervious area fraction = 0.100

++
Process from Point/Station 101.000 to Point/Station 102.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 922.900(Ft.)
End of street segment elevation = 890.300(Ft.)
Length of street segment = 1835.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 20.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.020
Slope from grade break to crown (v/hz) = 0.020
Street flow is on [1] side(s) of the street
Distance from curb to property line = 10.000(Ft.)

AREAA
Slope from curb to property line (v/hz) = 0.020
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 2.000(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0150
Manning's N from grade break to crown = 0.0150
Estimated mean flow rate at midpoint of street = 3.364(CFS)
Depth of flow = 0.339(Ft.), Average velocity = 2.987(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 10.118(Ft.)
Flow velocity = 2.99(Ft/s)
Travel time = 10.24 min. TC = 19.59 min.
Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.847
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Rainfall intensity = 1.990(In/Hr) for a 10.0 year storm
Subarea runoff = 2.175(CFS) for 1.290(Ac.)
Total runoff = 3.851(CFS) Total area = 1.930(Ac.)
Street flow at end of street = 3.851(CFS)
Half street flow at end of street = 3.851(CFS)
Depth of flow = 0.351(Ft.), Average velocity = 3.083(Ft/s)
Flow width (from curb towards crown)= 10.707(Ft.)
End of computations, total study area = 1.93 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number = 32.0

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 05/31/17 File:AREAB.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "B"
10YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 10.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 10.0
Calculated rainfall intensity data:
1 hour intensity = 1.040(In/Hr)
Slope of intensity duration curve = 0.5800

++

Process from Point/Station 200.000 to Point/Station 203.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 980.000(Ft.)
Top (of initial area) elevation = 943.900(Ft.)
Bottom (of initial area) elevation = 930.700(Ft.)
Difference in elevation = 13.200(Ft.)
Slope = 0.01347 s(percent)= 1.35
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 11.162 min.
Rainfall intensity = 2.758(In/Hr) for a 10.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.854
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Initial subarea runoff = 8.626(CFS)
Total initial stream area = 3.660(Ac.)
Pervious area fraction = 0.100

++

Process from Point/Station 200.000 to Point/Station 203.000
**** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area = 3.660(Ac.)
Runoff from this stream = 8.626(CFS)
Time of concentration = 11.16 min.
Rainfall intensity = 2.758(In/Hr)
Program is now starting with Main Stream No. 2

++

```
Process from Point/Station      201.000 to Point/Station      202.000
**** INITIAL AREA EVALUATION ****
----------------------------------------------------------------------
Initial area flow distance =   660.000(Ft.)
Top (of initial area) elevation =   945.500(Ft.)
Bottom (of initial area) elevation =   936.000(Ft.)
Difference in elevation =     9.500(Ft.)
Slope =    0.01439  s(percent)=       1.44
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    9.404 min.
Rainfall intensity =      3.047(In/Hr) for a    10.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.857
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Initial subarea runoff =      7.386(CFS)
Total initial stream area =        2.830(Ac.)
Pervious area fraction = 0.100


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      202.000 to Point/Station      203.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****
----------------------------------------------------------------------
Top of street segment elevation =   936.000(Ft.)
End of street segment elevation =   930.700(Ft.)
Length of street segment  =   635.000(Ft.)
Height of curb above gutter flowline  =   12.0(In.)
Width of half street (curb to crown)  =  49.000(Ft.)
Distance from crown to crossfall grade break  =   0.500(Ft.)
Slope from gutter to grade break (v/hz) =   0.015
Slope from grade break to crown (v/hz)  =   0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line  =  15.000(Ft.)
Slope from curb to property line (v/hz) =   0.020
Gutter width =   1.500(Ft.)
Gutter hike from flowline =  2.000(In.)
 Manning's N in gutter =  0.0150
 Manning's N from gutter to grade break =  0.0150
 Manning's N from grade break to crown =  0.0150
Estimated mean flow rate at midpoint of street =     13.272(CFS)
Depth of flow =   0.509(Ft.), Average velocity =   2.918(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width =  24.333(Ft.)
Flow velocity =   2.92(Ft/s)
Travel time =    3.63 min.     TC =   13.03  min.
 Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.852
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Rainfall intensity =      2.522(In/Hr) for a    10.0 year storm
Subarea runoff =      9.693(CFS) for      4.510(Ac.)
Total runoff =     17.080(CFS)  Total area =       7.340(Ac.)
Street flow at end of street =     17.080(CFS)
Half street flow at end of street =     17.080(CFS)
Depth of flow =   0.546(Ft.), Average velocity =   3.105(Ft/s)
Flow width (from curb towards crown)=  26.814(Ft.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      202.000 to Point/Station      203.000
**** CONFLUENCE OF MAIN STREAMS ****
----------------------------------------------------------------------
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =      7.340(Ac.)
Runoff from this stream =     17.080(CFS)
Time of concentration =   13.03 min.
Rainfall intensity =     2.522(In/Hr)
Summary of stream data:
```

```
Stream   Flow rate      TC            Rainfall Intensity
 No.       (CFS)       (min)                 (In/Hr)


1        8.626     11.16                 2.758
2       17.080     13.03                 2.522
Largest stream flow has longer time of concentration
Qp =     17.080 + sum of
          Qb         Ia/Ib
           8.626 *    0.914 =      7.885
Qp =     24.965

Total of 2 main streams to confluence:
Flow rates before confluence point:
       8.626      17.080
Area of streams before confluence:
        3.660        7.340


Results of confluence:
Total flow rate =     24.965(CFS)
Time of concentration =    13.031 min.
Effective stream area after confluence  =     11.000(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      203.000 to Point/Station      206.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****
________________________________________________________________________
Top of street segment elevation =   930.700(Ft.)
End of street segment elevation =   919.000(Ft.)
Length of street segment  =   775.000(Ft.)
Height of curb above gutter flowline  =   12.0(In.)
Width of half street (curb to crown)  =  49.000(Ft.)
Distance from crown to crossfall grade break  =   0.500(Ft.)
Slope from gutter to grade break (v/hz) =   0.015
Slope from grade break to crown (v/hz)  =   0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line  =  15.000(Ft.)
Slope from curb to property line (v/hz) =   0.020
Gutter width =   1.500(Ft.)
Gutter hike from flowline =  2.000(In.)
 Manning's N in gutter =  0.0150
 Manning's N from gutter to grade break =  0.0150
 Manning's N from grade break to crown =  0.0150
Estimated mean flow rate at midpoint of street =     36.823(CFS)
Depth of flow =   0.626(Ft.), Average velocity =   4.694(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width =  32.117(Ft.)
Flow velocity =   4.69(Ft/s)
Travel time =    2.75 min.     TC =   15.78  min.
 Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.850
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Rainfall intensity =      2.256(In/Hr) for a    10.0 year storm
Subarea runoff =     20.040(CFS) for     10.450(Ac.)
Total runoff =     45.005(CFS)  Total area =      21.450(Ac.)
Street flow at end of street =     45.005(CFS)
Half street flow at end of street =     45.005(CFS)
Depth of flow =   0.664(Ft.), Average velocity =   4.934(Ft/s)
Flow width (from curb towards crown)=  34.666(Ft.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      203.000 to Point/Station      206.000
**** CONFLUENCE OF MAIN STREAMS ****
________________________________________________________________________
The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =     21.450(Ac.)
Runoff from this stream =     45.005(CFS)
Time of concentration =   15.78 min.
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Rainfall intensity =     2.256(In/Hr)
Program is now starting with Main Stream No. 2


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      204.000 to Point/Station      205.000
**** INITIAL AREA EVALUATION ****
------------------------------------------------------------------------------
Initial area flow distance =   740.000(Ft.)
Top (of initial area) elevation =   933.600(Ft.)
Bottom (of initial area) elevation =   922.800(Ft.)
Difference in elevation =    10.800(Ft.)
Slope =    0.01459  s(percent)=       1.46
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    9.817 min.
Rainfall intensity =      2.972(In/Hr) for a    10.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.856
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Initial subarea runoff =      9.006(CFS)
Total initial stream area =        3.540(Ac.)
Pervious area fraction = 0.100


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      205.000 to Point/Station      206.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****
------------------------------------------------------------------------------
Top of street segment elevation =   922.800(Ft.)
End of street segment elevation =   919.000(Ft.)
Length of street segment  =   530.000(Ft.)
Height of curb above gutter flowline  =   12.0(In.)
Width of half street (curb to crown)  =  49.000(Ft.)
Distance from crown to crossfall grade break  =   0.500(Ft.)
Slope from gutter to grade break (v/hz) =   0.015
Slope from grade break to crown (v/hz)  =   0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line  =  15.000(Ft.)
Slope from curb to property line (v/hz) =   0.020
Gutter width =   1.500(Ft.)
Gutter hike from flowline =  2.000(In.)
 Manning's N in gutter =  0.0150
 Manning's N from gutter to grade break =  0.0150
 Manning's N from grade break to crown =  0.0150
Estimated mean flow rate at midpoint of street =     10.303(CFS)
Depth of flow =   0.485(Ft.), Average velocity =   2.589(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width =  22.722(Ft.)
Flow velocity =   2.59(Ft/s)
Travel time =    3.41 min.     TC =   13.23  min.
 Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.852
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Rainfall intensity =      2.500(In/Hr) for a    10.0 year storm
Subarea runoff =      2.173(CFS) for      1.020(Ac.)
Total runoff =     11.179(CFS)  Total area =       4.560(Ac.)
Street flow at end of street =     11.179(CFS)
Half street flow at end of street =     11.179(CFS)
Depth of flow =   0.496(Ft.), Average velocity =   2.641(Ft/s)
Flow width (from curb towards crown)=  23.451(Ft.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      205.000 to Point/Station      206.000
**** CONFLUENCE OF MAIN STREAMS ****
------------------------------------------------------------------------------
The following data inside Main Stream is listed:
In Main Stream number: 2
```

```
Stream flow area =      4.560(Ac.)
Runoff from this stream =     11.179(CFS)
Time of concentration =   13.23 min.
Rainfall intensity =     2.500(In/Hr)
Summary of stream data:

Stream   Flow rate      TC            Rainfall Intensity
 No.       (CFS)       (min)                 (In/Hr)


1       45.005     15.78                 2.256
2       11.179     13.23                 2.500
Largest stream flow has longer time of concentration
Qp =     45.005 + sum of
          Qb         Ia/Ib
          11.179 *    0.903 =     10.091
Qp =     55.096

Total of 2 main streams to confluence:
Flow rates before confluence point:
      45.005      11.179
Area of streams before confluence:
       21.450        4.560


Results of confluence:
Total flow rate =     55.096(CFS)
Time of concentration =    15.783 min.
Effective stream area after confluence  =     26.010(Ac.)


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Process from Point/Station      206.000 to Point/Station      210.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****
________________________________________________________________________
Top of street segment elevation =   919.000(Ft.)
End of street segment elevation =   903.000(Ft.)
Length of street segment  =   810.000(Ft.)
Height of curb above gutter flowline  =   12.0(In.)
Width of half street (curb to crown)  =  49.000(Ft.)
Distance from crown to crossfall grade break  =   0.500(Ft.)
Slope from gutter to grade break (v/hz) =   0.015
Slope from grade break to crown (v/hz)  =   0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line  =  15.000(Ft.)
Slope from curb to property line (v/hz) =   0.020
Gutter width =   1.500(Ft.)
Gutter hike from flowline =  2.000(In.)
 Manning's N in gutter =  0.0150
 Manning's N from gutter to grade break =  0.0150
 Manning's N from grade break to crown =  0.0150
Estimated mean flow rate at midpoint of street =     65.825(CFS)
Depth of flow =   0.715(Ft.), Average velocity =   6.000(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width =  38.058(Ft.)
Flow velocity =   6.00(Ft/s)
Travel time =    2.25 min.     TC =   18.03  min.
 Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.848
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Rainfall intensity =      2.089(In/Hr) for a    10.0 year storm
Subarea runoff =     17.945(CFS) for     10.130(Ac.)
Total runoff =     73.041(CFS)  Total area =      36.140(Ac.)
Street flow at end of street =     73.041(CFS)
Half street flow at end of street =     73.041(CFS)
Depth of flow =   0.738(Ft.), Average velocity =   6.157(Ft/s)
Flow width (from curb towards crown)=  39.589(Ft.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      206.000 to Point/Station      210.000
**** CONFLUENCE OF MAIN STREAMS ****
________________________________________________________________________
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The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =     36.140(Ac.)
Runoff from this stream =     73.041(CFS)
Time of concentration =   18.03 min.
Rainfall intensity =     2.089(In/Hr)
Program is now starting with Main Stream No. 2


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      207.000 to Point/Station      208.000
**** INITIAL AREA EVALUATION ****
------------------------------------------------------------------------------
Initial area flow distance =   480.000(Ft.)
Top (of initial area) elevation =   919.000(Ft.)
Bottom (of initial area) elevation =   908.200(Ft.)
Difference in elevation =    10.800(Ft.)
Slope =    0.02250  s(percent)=       2.25
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    7.571 min.
Rainfall intensity =      3.455(In/Hr) for a    10.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.859
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Initial subarea runoff =      2.375(CFS)
Total initial stream area =        0.800(Ac.)
Pervious area fraction = 0.100


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      208.000 to Point/Station      209.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****
------------------------------------------------------------------------------
Top of street segment elevation =   908.200(Ft.)
End of street segment elevation =   904.800(Ft.)
Length of street segment  =   505.000(Ft.)
Height of curb above gutter flowline  =   12.0(In.)
Width of half street (curb to crown)  =  49.000(Ft.)
Distance from crown to crossfall grade break  =   0.500(Ft.)
Slope from gutter to grade break (v/hz) =   0.015
Slope from grade break to crown (v/hz)  =   0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line  =  15.000(Ft.)
Slope from curb to property line (v/hz) =   0.020
Gutter width =   1.500(Ft.)
Gutter hike from flowline =  2.000(In.)
 Manning's N in gutter =  0.0150
 Manning's N from gutter to grade break =  0.0150
 Manning's N from grade break to crown =  0.0150
Estimated mean flow rate at midpoint of street =     10.155(CFS)
Depth of flow =   0.487(Ft.), Average velocity =   2.519(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width =  22.872(Ft.)
Flow velocity =   2.52(Ft/s)
Travel time =    3.34 min.     TC =   10.91  min.
 Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.855
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Rainfall intensity =      2.795(In/Hr) for a    10.0 year storm
Subarea runoff =     12.517(CFS) for      5.240(Ac.)
Total runoff =     14.892(CFS)  Total area =       6.040(Ac.)
Street flow at end of street =     14.892(CFS)
Half street flow at end of street =     14.892(CFS)
Depth of flow =   0.542(Ft.), Average velocity =   2.768(Ft/s)
Flow width (from curb towards crown)=  26.511(Ft.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
```

Process from Point/Station 209.000 to Point/Station 210.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 904.800(Ft.)
End of street segment elevation = 903.000(Ft.)
Length of street segment = 240.000(Ft.)
Height of curb above gutter flowline = 12.0(In.)
Width of half street (curb to crown) = 49.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 15.000(Ft.)
Slope from curb to property line (v/hz) = 0.020
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 2.000(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0150
Manning's N from grade break to crown = 0.0150
Estimated mean flow rate at midpoint of street = 17.654(CFS)
Depth of flow = 0.560(Ft.), Average velocity = 3.007(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 27.719(Ft.)
Flow velocity = 3.01(Ft/s)
Travel time = 1.33 min. TC = 12.24 min.
Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.853
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Rainfall intensity = 2.614(In/Hr) for a 10.0 year storm
Subarea runoff = 4.997(CFS) for 2.240(Ac.)
Total runoff = 19.889(CFS) Total area = 8.280(Ac.)
Street flow at end of street = 19.889(CFS)
Half street flow at end of street = 19.889(CFS)
Depth of flow = 0.579(Ft.), Average velocity = 3.097(Ft/s)
Flow width (from curb towards crown)= 29.014(Ft.)

++
Process from Point/Station 209.000 to Point/Station 210.000
**** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area = 8.280(Ac.)
Runoff from this stream = 19.889(CFS)
Time of concentration = 12.24 min.
Rainfall intensity = 2.614(In/Hr)
Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	73.041	18.03	2.089
2	19.889	12.24	2.614

Largest stream flow has longer time of concentration
Qp = 73.041 + sum of

Qb	Ia/Ib	
19.889 *	0.799 =	15.888

Qp = 88.929

Total of 2 main streams to confluence:
Flow rates before confluence point:
73.041 19.889
Area of streams before confluence:
36.140 8.280

Results of confluence:
Total flow rate = 88.929(CFS)
Time of concentration = 18.033 min.
Effective stream area after confluence = 44.420(Ac.)

```
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      210.000 to Point/Station      211.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****
----------------------------------------------------------------------------
Top of street segment elevation =   903.000(Ft.)
End of street segment elevation =   896.400(Ft.)
Length of street segment  =   360.000(Ft.)
Height of curb above gutter flowline  =   12.0(In.)
Width of half street (curb to crown)  =  49.000(Ft.)
Distance from crown to crossfall grade break  =   0.500(Ft.)
Slope from gutter to grade break (v/hz) =   0.015
Slope from grade break to crown (v/hz)  =   0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line  =  15.000(Ft.)
Slope from curb to property line (v/hz) =   0.020
Gutter width =   1.500(Ft.)
Gutter hike from flowline =  2.000(In.)
 Manning's N in gutter =  0.0150
 Manning's N from gutter to grade break =  0.0150
 Manning's N from grade break to crown =  0.0150
Estimated mean flow rate at midpoint of street =     89.569(CFS)
Depth of flow =   0.795(Ft.), Average velocity =   6.299(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width =  43.376(Ft.)
Flow velocity =   6.30(Ft/s)
Travel time =    0.95 min.     TC =   18.99  min.
 Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.848
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Rainfall intensity =      2.027(In/Hr) for a    10.0 year storm
Subarea runoff =      1.100(CFS) for      0.640(Ac.)
Total runoff =     90.028(CFS)  Total area =      45.060(Ac.)
Street flow at end of street =     90.028(CFS)
Half street flow at end of street =     90.028(CFS)
Depth of flow =   0.796(Ft.), Average velocity =   6.307(Ft/s)
Flow width (from curb towards crown)=  43.460(Ft.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      211.000 to Point/Station      214.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****
----------------------------------------------------------------------------
Top of street segment elevation =   896.400(Ft.)
End of street segment elevation =   891.200(Ft.)
Length of street segment  =   265.000(Ft.)
Height of curb above gutter flowline  =   12.0(In.)
Width of half street (curb to crown)  =  49.000(Ft.)
Distance from crown to crossfall grade break  =   0.500(Ft.)
Slope from gutter to grade break (v/hz) =   0.015
Slope from grade break to crown (v/hz)  =   0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line  =  15.000(Ft.)
Slope from curb to property line (v/hz) =   0.020
Gutter width =   1.500(Ft.)
Gutter hike from flowline =  2.000(In.)
 Manning's N in gutter =  0.0150
 Manning's N from gutter to grade break =  0.0150
 Manning's N from grade break to crown =  0.0150
Estimated mean flow rate at midpoint of street =     90.428(CFS)
Depth of flow =   0.789(Ft.), Average velocity =   6.477(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width =  42.977(Ft.)
Flow velocity =   6.48(Ft/s)
Travel time =    0.68 min.     TC =   19.67  min.
 Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.847
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
```

Pervious area fraction = 0.100; Impervious fraction = 0.900
Rainfall intensity = 1.986(In/Hr) for a 10.0 year storm
Subarea runoff = 0.673(CFS) for 0.400(Ac.)
Total runoff = 90.701(CFS) Total area = 45.460(Ac.)
Street flow at end of street = 90.701(CFS)
Half street flow at end of street = 90.701(CFS)
Depth of flow = 0.790(Ft.), Average velocity = 6.482(Ft/s)
Flow width (from curb towards crown)= 43.026(Ft.)

++
Process from Point/Station 211.000 to Point/Station 214.000
**** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area = 45.460(Ac.)
Runoff from this stream = 90.701(CFS)
Time of concentration = 19.67 min.
Rainfall intensity = 1.986(In/Hr)
Program is now starting with Main Stream No. 2

++
Process from Point/Station 212.000 to Point/Station 213.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 1000.000(Ft.)
Top (of initial area) elevation = 914.600(Ft.)
Bottom (of initial area) elevation = 897.600(Ft.)
Difference in elevation = 17.000(Ft.)
Slope = 0.01700 s(percent)= 1.70
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 10.741 min.
Rainfall intensity = 2.821(In/Hr) for a 10.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.855
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Initial subarea runoff = 3.593(CFS)
Total initial stream area = 1.490(Ac.)
Pervious area fraction = 0.100

++
Process from Point/Station 213.000 to Point/Station 214.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 897.600(Ft.)
End of street segment elevation = 891.200(Ft.)
Length of street segment = 940.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 30.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.020
Slope from grade break to crown (v/hz) = 0.020
Street flow is on [1] side(s) of the street
Distance from curb to property line = 15.000(Ft.)
Slope from curb to property line (v/hz) = 0.020
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 2.000(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0150
Manning's N from grade break to crown = 0.0150
Estimated mean flow rate at midpoint of street = 4.425(CFS)
Depth of flow = 0.412(Ft.), Average velocity = 2.213(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 13.774(Ft.)
Flow velocity = 2.21(Ft/s)
Travel time = 7.08 min. TC = 17.82 min.
Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.848
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000

```
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Rainfall intensity =      2.103(In/Hr) for a    10.0 year storm
Subarea runoff =      1.231(CFS) for      0.690(Ac.)
Total runoff =      4.824(CFS)  Total area =       2.180(Ac.)
Street flow at end of street =      4.824(CFS)
Half street flow at end of street =      4.824(CFS)
Depth of flow =   0.422(Ft.), Average velocity =   2.260(Ft/s)
Flow width (from curb towards crown)=  14.256(Ft.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      213.000 to Point/Station      214.000
**** CONFLUENCE OF MAIN STREAMS ****
------------------------------------------------------------------------------
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =      2.180(Ac.)
Runoff from this stream =      4.824(CFS)
Time of concentration =   17.82 min.
Rainfall intensity =     2.103(In/Hr)
Summary of stream data:

Stream   Flow rate      TC            Rainfall Intensity
 No.       (CFS)       (min)                 (In/Hr)


1       90.701     19.67                  1.986
2        4.824     17.82                  2.103
Largest stream flow has longer time of concentration
Qp =     90.701 + sum of
          Qb         Ia/Ib
           4.824 *    0.944 =      4.556
Qp =     95.257

Total of 2 main streams to confluence:
Flow rates before confluence point:
      90.701       4.824
Area of streams before confluence:
       45.460        2.180


Results of confluence:
Total flow rate =     95.257(CFS)
Time of concentration =    19.667 min.
Effective stream area after confluence  =     47.640(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      214.000 to Point/Station      215.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****
------------------------------------------------------------------------------
Top of street segment elevation =   891.200(Ft.)
End of street segment elevation =   889.400(Ft.)
Length of street segment  =   315.000(Ft.)
Height of curb above gutter flowline  =    6.0(In.)
Width of half street (curb to crown)  =  30.000(Ft.)
Distance from crown to crossfall grade break  =   0.500(Ft.)
Slope from gutter to grade break (v/hz) =   0.020
Slope from grade break to crown (v/hz)  =   0.020
Street flow is on [1] side(s) of the street
Distance from curb to property line  =  15.000(Ft.)
Slope from curb to property line (v/hz) =   0.020
Gutter width =   1.500(Ft.)
Gutter hike from flowline =  2.000(In.)
 Manning's N in gutter =  0.0150
 Manning's N from gutter to grade break =  0.0150
 Manning's N from grade break to crown =  0.0150
Estimated mean flow rate at midpoint of street =     95.507(CFS)
Depth of flow =   0.977(Ft.), Average velocity =   4.502(Ft/s)
Warning: depth of flow exceeds top of curb
Note:  depth of flow exceeds top of street crown.
Distance that curb overflow reaches into property =   23.85(Ft.)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width =  30.000(Ft.)
Flow velocity =   4.50(Ft/s)
Travel time =    1.17 min.     TC =   20.83  min.
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```
 Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.846
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Rainfall intensity =      1.921(In/Hr) for a    10.0 year storm
Subarea runoff =      0.406(CFS) for      0.250(Ac.)
Total runoff =     95.664(CFS)  Total area =      47.890(Ac.)
Street flow at end of street =     95.664(CFS)
Half street flow at end of street =     95.664(CFS)
Depth of flow =   0.977(Ft.), Average velocity =   4.505(Ft/s)
Warning: depth of flow exceeds top of curb
Note:  depth of flow exceeds top of street crown.
Distance that curb overflow reaches into property =   23.87(Ft.)
Flow width (from curb towards crown)=  30.000(Ft.)
End of computations, total study area =           47.89 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number =  32.0
```

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 02/08/17 File:AREAC.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "C"
10YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 10.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 10.0
Calculated rainfall intensity data:
1 hour intensity = 1.040(In/Hr)
Slope of intensity duration curve = 0.5800

++
Process from Point/Station 300.000 to Point/Station 301.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 860.000(Ft.)
Top (of initial area) elevation = 915.200(Ft.)
Bottom (of initial area) elevation = 903.500(Ft.)
Difference in elevation = 11.700(Ft.)
Slope = 0.01360 s(percent)= 1.36
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 10.573 min.
Rainfall intensity = 2.847(In/Hr) for a 10.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.855
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Initial subarea runoff = 11.416(CFS)
Total initial stream area = 4.690(Ac.)
Pervious area fraction = 0.100
End of computations, total study area = 4.69 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number = 32.0

Riverside County Rational Hydrology Program

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Rational Hydrology Study Date: 02/14/17 File:AREAD.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "D"
10YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 10.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 10.0
Calculated rainfall intensity data:
1 hour intensity = 1.040(In/Hr)
Slope of intensity duration curve = 0.5800

++

Process from Point/Station 204.000 to Point/Station 401.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 655.000(Ft.)
Top (of initial area) elevation = 933.600(Ft.)
Bottom (of initial area) elevation = 922.600(Ft.)
Difference in elevation = 11.000(Ft.)
Slope = 0.01679 s(percent)= 1.68
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 9.090 min.
Rainfall intensity = 3.107(In/Hr) for a 10.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.857
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Initial subarea runoff = 6.338(CFS)
Total initial stream area = 2.380(Ac.)
Pervious area fraction = 0.100
End of computations, total study area = 2.38 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number = 32.0

Riverside County Rational Hydrology Program

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Rational Hydrology Study Date: 02/14/17 File:AREAE.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "E"
10YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 10.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 10.0
Calculated rainfall intensity data:
1 hour intensity = 1.040(In/Hr)
Slope of intensity duration curve = 0.5800

++
Process from Point/Station 500.000 to Point/Station 501.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 575.000(Ft.)
Top (of initial area) elevation = 923.300(Ft.)
Bottom (of initial area) elevation = 918.600(Ft.)
Difference in elevation = 4.700(Ft.)
Slope = 0.00817 s(percent)= 0.82
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 9.966 min.
Rainfall intensity = 2.946(In/Hr) for a 10.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.856
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Initial subarea runoff = 6.430(CFS)
Total initial stream area = 2.550(Ac.)
Pervious area fraction = 0.100

++
Process from Point/Station 501.000 to Point/Station 502.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 918.600(Ft.)
End of street segment elevation = 913.500(Ft.)
Length of street segment = 255.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 20.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.020
Slope from grade break to crown (v/hz) = 0.020
Street flow is on [1] side(s) of the street
Distance from curb to property line = 10.000(Ft.)

AREAE
Slope from curb to property line (v/hz) = 0.020
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 2.000(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0150
Manning's N from grade break to crown = 0.0150
Estimated mean flow rate at midpoint of street = 8.875(CFS)
Depth of flow = 0.430(Ft.), Average velocity = 3.940(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 14.663(Ft.)
Flow velocity = 3.94(Ft/s)
Travel time = 1.08 min. TC = 11.04 min.
Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.855
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Rainfall intensity = 2.776(In/Hr) for a 10.0 year storm
Subarea runoff = 4.601(CFS) for 1.940(Ac.)
Total runoff = 11.031(CFS) Total area = 4.490(Ac.)
Street flow at end of street = 11.031(CFS)
Half street flow at end of street = 11.031(CFS)
Depth of flow = 0.456(Ft.), Average velocity = 4.154(Ft/s)
Flow width (from curb towards crown)= 15.978(Ft.)
End of computations, total study area = 4.49 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number = 32.0

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 05/31/17 File:AREAF.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "F"
10YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 10.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 10.0
Calculated rainfall intensity data:
1 hour intensity = 1.040(In/Hr)
Slope of intensity duration curve = 0.5800

++
Process from Point/Station 201.000 to Point/Station 601.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 925.000(Ft.)
Top (of initial area) elevation = 945.500(Ft.)
Bottom (of initial area) elevation = 937.300(Ft.)
Difference in elevation = 8.200(Ft.)
Slope = 0.00886 s(percent)= 0.89
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 11.859 min.
Rainfall intensity = 2.663(In/Hr) for a 10.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.854
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Initial subarea runoff = 12.026(CFS)
Total initial stream area = 5.290(Ac.)
Pervious area fraction = 0.100

++
Process from Point/Station 601.000 to Point/Station 602.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 937.300(Ft.)
End of street segment elevation = 930.000(Ft.)
Length of street segment = 390.000(Ft.)
Height of curb above gutter flowline = 8.0(In.)
Width of half street (curb to crown) = 20.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.020
Slope from grade break to crown (v/hz) = 0.020
Street flow is on [1] side(s) of the street
Distance from curb to property line = 10.000(Ft.)

AREAF
Slope from curb to property line (v/hz) = 0.020
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 2.000(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0150
Manning's N from grade break to crown = 0.0150
Estimated mean flow rate at midpoint of street = 14.732(CFS)
Depth of flow = 0.499(Ft.), Average velocity = 4.349(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 18.124(Ft.)
Flow velocity = 4.35(Ft/s)
Travel time = 1.49 min. TC = 13.35 min.
Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.852
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Rainfall intensity = 2.486(In/Hr) for a 10.0 year storm
Subarea runoff = 5.042(CFS) for 2.380(Ac.)
Total runoff = 17.068(CFS) Total area = 7.670(Ac.)
Street flow at end of street = 17.068(CFS)
Half street flow at end of street = 17.068(CFS)
Depth of flow = 0.520(Ft.), Average velocity = 4.509(Ft/s)
Flow width (from curb towards crown)= 19.190(Ft.)
End of computations, total study area = 7.67 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number = 32.0

Riverside County Rational Hydrology Program

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Rational Hydrology Study Date: 05/31/17 File:AREAG.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "G"
10YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 10.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 10.0
Calculated rainfall intensity data:
1 hour intensity = 1.040(In/Hr)
Slope of intensity duration curve = 0.5800

++

Process from Point/Station 700.000 to Point/Station 701.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 815.000(Ft.)
Top (of initial area) elevation = 948.400(Ft.)
Bottom (of initial area) elevation = 930.000(Ft.)
Difference in elevation = 18.400(Ft.)
Slope = 0.02258 s(percent)= 2.26
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 9.351 min.
Rainfall intensity = 3.057(In/Hr) for a 10.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.857
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Initial subarea runoff = 1.702(CFS)
Total initial stream area = 0.650(Ac.)
Pervious area fraction = 0.100
End of computations, total study area = 0.65 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number = 32.0

Riverside County Rational Hydrology Program

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Rational Hydrology Study Date: 05/31/17 File:AREAH.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "H"
10YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 10.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 10.0
Calculated rainfall intensity data:
1 hour intensity = 1.040(In/Hr)
Slope of intensity duration curve = 0.5800

++
Process from Point/Station 800.000 to Point/Station 801.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 1000.000(Ft.)
Top (of initial area) elevation = 961.500(Ft.)
Bottom (of initial area) elevation = 933.600(Ft.)
Difference in elevation = 27.900(Ft.)
Slope = 0.02790 s(percent)= 2.79
TC = k(0.398)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 12.899 min.
Rainfall intensity = 2.537(In/Hr) for a 10.0 year storm
USER INPUT of soil data for subarea
Runoff Coefficient = 0.663
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.500; Impervious fraction = 0.500
Initial subarea runoff = 10.622(CFS)
Total initial stream area = 6.320(Ac.)
Pervious area fraction = 0.500
End of computations, total study area = 6.32 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.500
Area averaged RI index number = 32.0

Riverside County Rational Hydrology Program

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TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "I"
10YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 10.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 10.0
Calculated rainfall intensity data:
1 hour intensity = 1.040(In/Hr)
Slope of intensity duration curve = 0.5800

++

Process from Point/Station 900.000 to Point/Station 502.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 875.000(Ft.)
Top (of initial area) elevation = 930.400(Ft.)
Bottom (of initial area) elevation = 913.500(Ft.)
Difference in elevation = 16.900(Ft.)
Slope = 0.01931 s(percent)= 1.93
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 9.925 min.
Rainfall intensity = 2.953(In/Hr) for a 10.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.856
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Initial subarea runoff = 3.791(CFS)
Total initial stream area = 1.500(Ac.)
Pervious area fraction = 0.100
End of computations, total study area = 1.50 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number = 32.0

Riverside County Rational Hydrology Program

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        Rational Hydrology Study        Date: 02/14/17  File:AREAJ.out
------------------------------------------------------------------------
TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "J"
10YR
------------------------------------------------------------------------
 *********   Hydrology Study Control Information **********

 English (in-lb) Units used in input data file

------------------------------------------------------------------------
TRI-8 Builders - S/N   615
------------------------------------------------------------------------
Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) =   10.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [ Desert Hot Springs ] area used.
10 year storm 10 minute intensity =  2.940(In/Hr)
10 year storm 60 minute intensity =  1.040(In/Hr)
100 year storm 10 minute intensity =  4.520(In/Hr)
100 year storm 60 minute intensity =  1.600(In/Hr)

Storm event year =  10.0
Calculated rainfall intensity data:
1 hour intensity =  1.040(In/Hr)
Slope of intensity duration curve = 0.5800




++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station     1000.000 to Point/Station     1001.000
**** INITIAL AREA EVALUATION ****
________________________________________________________________________
Initial area flow distance =   320.000(Ft.)
Top (of initial area) elevation =   927.000(Ft.)
Bottom (of initial area) elevation =   925.900(Ft.)
Difference in elevation =     1.100(Ft.)
Slope =    0.00344  s(percent)=       0.34
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    9.374 min.
Rainfall intensity =      3.052(In/Hr) for a    10.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.857
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Initial subarea runoff =      2.353(CFS)
Total initial stream area =        0.900(Ac.)
Pervious area fraction = 0.100
End of computations, total study area =            0.90 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number =  32.0
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Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 02/14/17 File:AREAK.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "K"
10YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 10.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 10.0
Calculated rainfall intensity data:
1 hour intensity = 1.040(In/Hr)
Slope of intensity duration curve = 0.5800

++
Process from Point/Station 1100.000 to Point/Station 1101.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 645.000(Ft.)
Top (of initial area) elevation = 938.900(Ft.)
Bottom (of initial area) elevation = 929.500(Ft.)
Difference in elevation = 9.400(Ft.)
Slope = 0.01457 s(percent)= 1.46
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 9.295 min.
Rainfall intensity = 3.068(In/Hr) for a 10.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.857
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Initial subarea runoff = 7.963(CFS)
Total initial stream area = 3.030(Ac.)
Pervious area fraction = 0.100

++
Process from Point/Station 1101.000 to Point/Station 1102.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 929.500(Ft.)
End of street segment elevation = 926.900(Ft.)
Length of street segment = 525.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 49.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.010
Slope from grade break to crown (v/hz) = 0.010
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)

AREAK
Slope from curb to property line (v/hz) = 0.000
Gutter width = 0.000(Ft.)
Gutter hike from flowline = 0.000(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0150
Manning's N from grade break to crown = 0.0150
Estimated mean flow rate at midpoint of street = 13.404(CFS)
Depth of flow = 0.351(Ft.), Average velocity = 2.172(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 35.131(Ft.)
Flow velocity = 2.17(Ft/s)
Travel time = 4.03 min. TC = 13.32 min.
Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.852
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Rainfall intensity = 2.489(In/Hr) for a 10.0 year storm
Subarea runoff = 8.782(CFS) for 4.140(Ac.)
Total runoff = 16.745(CFS) Total area = 7.170(Ac.)
Street flow at end of street = 16.745(CFS)
Half street flow at end of street = 16.745(CFS)
Depth of flow = 0.382(Ft.), Average velocity = 2.296(Ft/s)
Flow width (from curb towards crown)= 38.189(Ft.)
End of computations, total study area = 7.17 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number = 32.0

Riverside County Rational Hydrology Program

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Rational Hydrology Study Date: 02/14/17 File:AREAL.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "L"
10YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 10.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 10.0
Calculated rainfall intensity data:
1 hour intensity = 1.040(In/Hr)
Slope of intensity duration curve = 0.5800

++
Process from Point/Station 1200.000 to Point/Station 1201.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 550.000(Ft.)
Top (of initial area) elevation = 909.200(Ft.)
Bottom (of initial area) elevation = 902.600(Ft.)
Difference in elevation = 6.600(Ft.)
Slope = 0.01200 s(percent)= 1.20
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 9.066 min.
Rainfall intensity = 3.112(In/Hr) for a 10.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.857
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Initial subarea runoff = 6.428(CFS)
Total initial stream area = 2.410(Ac.)
Pervious area fraction = 0.100

++
Process from Point/Station 1201.000 to Point/Station 1202.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 902.600(Ft.)
End of street segment elevation = 900.300(Ft.)
Length of street segment = 485.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 49.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.010
Slope from grade break to crown (v/hz) = 0.010
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)

AREAL
Slope from curb to property line (v/hz) = 0.000
Gutter width = 0.000(Ft.)
Gutter hike from flowline = 0.000(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0150
Manning's N from grade break to crown = 0.0150
Estimated mean flow rate at midpoint of street = 11.843(CFS)
Depth of flow = 0.338(Ft.), Average velocity = 2.072(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 33.811(Ft.)
Flow velocity = 2.07(Ft/s)
Travel time = 3.90 min. TC = 12.97 min.
Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.852
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Rainfall intensity = 2.529(In/Hr) for a 10.0 year storm
Subarea runoff = 8.752(CFS) for 4.060(Ac.)
Total runoff = 15.180(CFS) Total area = 6.470(Ac.)
Street flow at end of street = 15.180(CFS)
Half street flow at end of street = 15.180(CFS)
Depth of flow = 0.371(Ft.), Average velocity = 2.205(Ft/s)
Flow width (from curb towards crown)= 37.110(Ft.)
End of computations, total study area = 6.47 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number = 32.0

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 02/17/17 File:AREAM.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "M"
10YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 10.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 10.0
Calculated rainfall intensity data:
1 hour intensity = 1.040(In/Hr)
Slope of intensity duration curve = 0.5800

++

Process from Point/Station 1100.000 to Point/Station 1301.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 565.000(Ft.)
Top (of initial area) elevation = 938.900(Ft.)
Bottom (of initial area) elevation = 933.100(Ft.)
Difference in elevation = 5.800(Ft.)
Slope = 0.01027 s(percent)= 1.03
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 9.455 min.
Rainfall intensity = 3.037(In/Hr) for a 10.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.857
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Initial subarea runoff = 6.218(CFS)
Total initial stream area = 2.390(Ac.)
Pervious area fraction = 0.100
End of computations, total study area = 2.39 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number = 32.0

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 06/01/17 File:AREAN.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "N"
10YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 10.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 10.0
Calculated rainfall intensity data:
1 hour intensity = 1.040(In/Hr)
Slope of intensity duration curve = 0.5800

++

Process from Point/Station 100.000 to Point/Station 1400.000
**** USER DEFINED FLOW INFORMATION AT A POINT ****

Rainfall intensity = 1.076(In/Hr) for a 10.0 year storm
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.559
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 67.00
Pervious area fraction = 1.000; Impervious fraction = 0.000
User specified values are as follows:
TC = 56.60 min. Rain intensity = 1.08(In/Hr)
Total area = 181.95(Ac.) Total runoff = 177.40(CFS)

++

Process from Point/Station 1400.000 to Point/Station 1401.000
**** IMPROVED CHANNEL TRAVEL TIME ****

Upstream point elevation = 945.600(Ft.)
Downstream point elevation = 938.800(Ft.)
Channel length thru subarea = 410.000(Ft.)
Channel base width = 4.000(Ft.)
Slope or 'Z' of left channel bank = 1.000
Slope or 'Z' of right channel bank = 1.000
Estimated mean flow rate at midpoint of channel = 178.068(CFS)
Manning's 'N' = 0.015
Maximum depth of channel = 6.000(Ft.)
Flow(q) thru subarea = 178.068(CFS)
Depth of flow = 2.007(Ft.), Average velocity = 14.772(Ft/s)
Channel flow top width = 8.014(Ft.)
Flow Velocity = 14.77(Ft/s)
Travel time = 0.46 min.
Time of concentration = 57.06 min.

Sub-Channel No. 1 Critical depth = 3.063(Ft.)

```
                                        AREAN
  '     '       '     Critical flow top width =     10.125(Ft.)
  '     '       '     Critical flow velocity=    8.233(Ft/s)
  '     '       '     Critical flow area =     21.629(Sq.Ft)

 Adding area flow to channel
COMMERCIAL subarea type
Runoff Coefficient = 0.835
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Rainfall intensity =      1.071(In/Hr) for a    10.0 year storm
Subarea runoff =      1.224(CFS) for      1.370(Ac.)
Total runoff =    178.624(CFS)  Total area =     183.320(Ac.)
End of computations, total study area =          183.32 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.993
Area averaged RI index number =  66.7
```

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 06/02/17 File:AREAO.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "O"
10YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 10.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 10.0
Calculated rainfall intensity data:
1 hour intensity = 1.040(In/Hr)
Slope of intensity duration curve = 0.5800

++

Process from Point/Station 200.000 to Point/Station 1400.000
**** USER DEFINED FLOW INFORMATION AT A POINT ****

Rainfall intensity = 1.923(In/Hr) for a 10.0 year storm
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.671
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 67.00
Pervious area fraction = 1.000; Impervious fraction = 0.000
User specified values are as follows:
TC = 20.80 min. Rain intensity = 1.92(In/Hr)
Total area = 16.61(Ac.) Total runoff = 29.20(CFS)

++

Process from Point/Station 1400.000 to Point/Station 1501.000
**** IMPROVED CHANNEL TRAVEL TIME ****

Upstream point elevation = 945.600(Ft.)
Downstream point elevation = 935.600(Ft.)
Channel length thru subarea = 975.000(Ft.)
Channel base width = 4.000(Ft.)
Slope or 'Z' of left channel bank = 2.000
Slope or 'Z' of right channel bank = 2.000
Estimated mean flow rate at midpoint of channel = 30.413(CFS)
Manning's 'N' = 0.035
Maximum depth of channel = 3.500(Ft.)
Flow(q) thru subarea = 30.413(CFS)
Depth of flow = 1.232(Ft.), Average velocity = 3.820(Ft/s)
Channel flow top width = 8.927(Ft.)
Flow Velocity = 3.82(Ft/s)
Travel time = 4.25 min.
Time of concentration = 25.05 min.

Sub-Channel No. 1 Critical depth = 1.016(Ft.)

```
                                        AREAO
  '     '       '     Critical flow top width =      8.063(Ft.)
  '     '       '     Critical flow velocity=    4.965(Ft/s)
  '     '       '     Critical flow area =      6.125(Sq.Ft)

 Adding area flow to channel
COMMERCIAL subarea type
Runoff Coefficient = 0.844
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  32.00
Pervious area fraction =  0.100; Impervious fraction =  0.900
Rainfall intensity =      1.726(In/Hr) for a    10.0 year storm
Subarea runoff =      2.010(CFS) for      1.380(Ac.)
Total runoff =     31.210(CFS)  Total area =      17.990(Ac.)
End of computations, total study area =           17.99 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.931
Area averaged RI index number =  64.3
```

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 05/31/17 File:AREAP.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "P"
10YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 10.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 10.0
Calculated rainfall intensity data:
1 hour intensity = 1.040(In/Hr)
Slope of intensity duration curve = 0.5800

++
Process from Point/Station 1600.000 to Point/Station 1601.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 975.000(Ft.)
Top (of initial area) elevation = 901.400(Ft.)
Bottom (of initial area) elevation = 894.900(Ft.)
Difference in elevation = 6.500(Ft.)
Slope = 0.00667 s(percent)= 0.67
TC = k(0.300)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 12.822 min.
Rainfall intensity = 2.545(In/Hr) for a 10.0 year storm
COMMERCIAL subarea type
Runoff Coefficient = 0.853
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Initial subarea runoff = 10.373(CFS)
Total initial stream area = 4.780(Ac.)
Pervious area fraction = 0.100
End of computations, total study area = 4.78 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged RI index number = 32.0

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 06/02/17 File:AREAQ.out

TPM NO. 37235
ON-SITE PROPOSED CONDITION
AREA "Q"
10YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 10.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 10.0
Calculated rainfall intensity data:
1 hour intensity = 1.040(In/Hr)
Slope of intensity duration curve = 0.5800

++

Process from Point/Station 300.000 to Point/Station 1700.000
**** USER DEFINED FLOW INFORMATION AT A POINT ****

Rainfall intensity = 1.495(In/Hr) for a 10.0 year storm
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.625
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 67.00
Pervious area fraction = 1.000; Impervious fraction = 0.000
User specified values are as follows:
TC = 32.10 min. Rain intensity = 1.49(In/Hr)
Total area = 37.12(Ac.) Total runoff = 54.60(CFS)

++

Process from Point/Station 1700.000 to Point/Station 1701.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 940.600(Ft.)
End of street segment elevation = 937.600(Ft.)
Length of street segment = 200.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 20.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.020
Slope from grade break to crown (v/hz) = 0.020
Street flow is on [1] side(s) of the street
Distance from curb to property line = 10.000(Ft.)
Slope from curb to property line (v/hz) = 0.020
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 2.000(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0150
Manning's N from grade break to crown = 0.0150
Estimated mean flow rate at midpoint of street = 54.806(CFS)

Depth of flow = 0.744(Ft.), Average velocity = 5.651(Ft/s)
Warning: depth of flow exceeds top of curb
Note: depth of flow exceeds top of street crown.
Distance that curb overflow reaches into property = 12.22(Ft.)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 20.000(Ft.)
Flow velocity = 5.65(Ft/s)
Travel time = 0.59 min. TC = 32.69 min.
Adding area flow to street
COMMERCIAL subarea type
Runoff Coefficient = 0.841
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 32.00
Pervious area fraction = 0.100; Impervious fraction = 0.900
Rainfall intensity = 1.479(In/Hr) for a 10.0 year storm
Subarea runoff = 0.348(CFS) for 0.280(Ac.)
Total runoff = 54.948(CFS) Total area = 37.400(Ac.)
Street flow at end of street = 54.948(CFS)
Half street flow at end of street = 54.948(CFS)
Depth of flow = 0.745(Ft.), Average velocity = 5.657(Ft/s)
Warning: depth of flow exceeds top of curb
Note: depth of flow exceeds top of street crown.
Distance that curb overflow reaches into property = 12.24(Ft.)
Flow width (from curb towards crown)= 20.000(Ft.)
End of computations, total study area = 37.40 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 0.993
Area averaged RI index number = 66.7

APPENDIX C: ON-SITE PROPOSED CONDITION HYDROLOGY CALCULATIONS (UNIT HYDROGRAPH METHOD)

U n i t H y d r o g r a p h A n a l y s i s

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Study date 02/14/17 File: AREAA1100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

TRI-8 Builders - S/N 615

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TPM NO. 37235
PROPOSED CONDITION - ON-SITE
AREA "A"
100YR

Drainage Area = 77.96(Ac.) = 0.122 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 77.96(Ac.) = 0.122 Sq. Mi.
Length along longest watercourse = 5010.00(Ft.)
Length along longest watercourse measured to centroid = 1530.00(Ft.)
Length along longest watercourse = 0.949 Mi.
Length along longest watercourse measured to centroid = 0.290 Mi.
Difference in elevation = 80.80(Ft.)
Slope along watercourse = 85.1545 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.095 Hr.
Lag time = 5.68 Min.
25% of lag time = 1.42 Min.
40% of lag time = 2.27 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
77.96	0.55	42.88

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
77.96	1.60	124.74

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.550(In)
Area Averaged 100-Year Rainfall = 1.600(In)

Point rain (area averaged) = 1.600(In)
Areal adjustment factor = 99.93 %
Adjusted average point rain = 1.599(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
77.960	32.00	0.900

Total Area Entered = 77.96(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
32.0	32.0	0.742	0.900	0.141	1.000	0.141
					Sum (F) =	0.141

Area averaged mean soil loss (F) (In/Hr) = 0.141
Minimum soil loss rate ((In/Hr)) = 0.070
(for 24 hour storm duration)

Soil low loss rate (decimal) = 0.180

Slope of intensity-duration curve for a 1 hour storm =0.5800

U n i t H y d r o g r a p h
DESERT S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	87.970	13.284	10.437
2	0.167	175.941	48.525	38.126
3	0.250	263.911	18.777	14.753
4	0.333	351.881	8.412	6.609
5	0.417	439.852	4.618	3.628
6	0.500	527.822	2.824	2.219
7	0.583	615.793	1.559	1.225
8	0.667	703.763	1.018	0.800
9	0.750	791.733	0.983	0.772
		Sum = 100.000	Sum=	78.569

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	3.60	0.691	0.141	---	0.55
2	0.17	4.20	0.806	0.141	---	0.66
3	0.25	4.40	0.844	0.141	---	0.70
4	0.33	4.60	0.883	0.141	---	0.74
5	0.42	5.00	0.959	0.141	---	0.82
6	0.50	5.60	1.074	0.141	---	0.93
7	0.58	6.40	1.228	0.141	---	1.09
8	0.67	8.10	1.554	0.141	---	1.41
9	0.75	13.10	2.513	0.141	---	2.37
10	0.83	34.50	6.619	0.141	---	6.48
11	0.92	6.70	1.285	0.141	---	1.14
12	1.00	3.80	0.729	0.141	---	0.59
Sum =		100.0			Sum =	17.5

Flood volume = Effective rainfall 1.46(In)
times area 78.0(Ac.)/[(In)/(Ft.)] = 9.5(Ac.Ft)
Total soil loss = 0.14(In)
Total soil loss = 0.916(Ac.Ft)
Total rainfall = 1.60(In)
Flood volume = 412575.2 Cubic Feet
Total soil loss = 39896.6 Cubic Feet

Peak flow rate of this hydrograph = 311.592(CFS)

++

1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	100.0	200.0	300.0	400.0
0+ 5	0.0395	5.74	Q				
0+10	0.2318	27.91	V Q				
0+15	0.5129	40.82	| V Q				
0+20	0.8436	48.02	| VQ				
0+25	1.2128	53.61	| Q				
0+30	1.6273	60.19	| Q				
0+35	2.1001	68.64	| Q V				
0+40	2.6574	80.92	| Q |V				
0+45	3.3965	107.33	| Q V				
0+50	4.7284	193.38	| Q				
0+55	6.8743	311.59	| V|Q				
1+ 0	8.0522	171.03	| Q			V	
1+ 5	8.7177	96.63	| Q|			V	
1+10	9.0507	48.36	| Q				V |
1+15	9.2387	27.30	| Q				V|
1+20	9.3462	15.60	|Q				V|
1+25	9.4132	9.73	Q				V|
1+30	9.4590	6.64	Q				V|
1+35	9.4683	1.36	Q				V|

```
                                                    AREAA1100
    1+40       9.4714      0.45  Q         |         |         |         V
-------------------------------------------------------------------------
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U n i t H y d r o g r a p h A n a l y s i s

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

TRI-8 Builders - S/N 615

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TPM NO. 37235
PROPOSED CONDITION - ON-SITE
AREA "A"
100YR

Drainage Area = 77.96(Ac.) = 0.122 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 77.96(Ac.) = 0.122 Sq. Mi.
Length along longest watercourse = 5010.00(Ft.)
Length along longest watercourse measured to centroid = 1530.00(Ft.)
Length along longest watercourse = 0.949 Mi.
Length along longest watercourse measured to centroid = 0.290 Mi.
Difference in elevation = 80.80(Ft.)
Slope along watercourse = 85.1545 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.095 Hr.
Lag time = 5.68 Min.
25% of lag time = 1.42 Min.
40% of lag time = 2.27 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
77.96	0.74	57.69

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
77.96	2.23	173.85

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.740(In)
Area Averaged 100-Year Rainfall = 2.230(In)

Point rain (area averaged) = 2.230(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 2.229(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
77.960	32.00	0.900

Total Area Entered = 77.96(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
32.0	32.0	0.742	0.900	0.141	1.000	0.141
					Sum (F) =	0.141

Area averaged mean soil loss (F) (In/Hr) = 0.141
Minimum soil loss rate ((In/Hr)) = 0.070
(for 24 hour storm duration)

Soil low loss rate (decimal) = 0.180

U n i t H y d r o g r a p h
DESERT S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	87.970	13.284	10.437
2	0.167	175.941	48.525	38.126
3	0.250	263.911	18.777	14.753
4	0.333	351.881	8.412	6.609
5	0.417	439.852	4.618	3.628
6	0.500	527.822	2.824	2.219
7	0.583	615.793	1.559	1.225
8	0.667	703.763	1.018	0.800
9	0.750	791.733	0.983	0.772
			Sum = 100.000	Sum= 78.569

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.348	0.141	---	0.21
2	0.17	1.30	0.348	0.141	---	0.21
3	0.25	1.10	0.294	0.141	---	0.15
4	0.33	1.50	0.401	0.141	---	0.26
5	0.42	1.50	0.401	0.141	---	0.26
6	0.50	1.80	0.482	0.141	---	0.34
7	0.58	1.50	0.401	0.141	---	0.26
8	0.67	1.80	0.482	0.141	---	0.34
9	0.75	1.80	0.482	0.141	---	0.34
10	0.83	1.50	0.401	0.141	---	0.26
11	0.92	1.60	0.428	0.141	---	0.29
12	1.00	1.80	0.482	0.141	---	0.34
13	1.08	2.20	0.589	0.141	---	0.45
14	1.17	2.20	0.589	0.141	---	0.45
15	1.25	2.20	0.589	0.141	---	0.45
16	1.33	2.00	0.535	0.141	---	0.39
17	1.42	2.60	0.696	0.141	---	0.55
18	1.50	2.70	0.722	0.141	---	0.58
19	1.58	2.40	0.642	0.141	---	0.50
20	1.67	2.70	0.722	0.141	---	0.58
21	1.75	3.30	0.883	0.141	---	0.74
22	1.83	3.10	0.829	0.141	---	0.69
23	1.92	2.90	0.776	0.141	---	0.63
24	2.00	3.00	0.803	0.141	---	0.66
25	2.08	3.10	0.829	0.141	---	0.69
26	2.17	4.20	1.124	0.141	---	0.98
27	2.25	5.00	1.338	0.141	---	1.20
28	2.33	3.50	0.936	0.141	---	0.80
29	2.42	6.80	1.819	0.141	---	1.68
30	2.50	7.30	1.953	0.141	---	1.81
31	2.58	8.20	2.194	0.141	---	2.05
32	2.67	5.90	1.578	0.141	---	1.44
33	2.75	2.00	0.535	0.141	---	0.39
34	2.83	1.80	0.482	0.141	---	0.34
35	2.92	1.80	0.482	0.141	---	0.34
36	3.00	0.60	0.161	0.141	---	0.02
Sum =		100.0			Sum =	21.7

Flood volume = Effective rainfall 1.81(In)
times area 78.0(Ac.)/[(In)/(Ft.)] = 11.7(Ac.Ft)
Total soil loss = 0.42(In)
Total soil loss = 2.748(Ac.Ft)
Total rainfall = 2.23(In)
Flood volume = 511173.3 Cubic Feet
Total soil loss = 119689.8 Cubic Feet

Peak flow rate of this hydrograph = 138.956(CFS)

++

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

AREAA3100

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 50.0 100.0 150.0 200.0
0+ 5	0.0149	2.16	Q
0+10	0.0841	10.05	V Q
0+15	0.1704	12.54	V Q
0+20	0.2599	12.98	V Q
0+25	0.3771	17.03	|V Q
0+30	0.5118	19.55	|V Q
0+35	0.6670	22.54	| V Q
0+40	0.8181	21.94	| V Q
0+45	0.9880	24.68	| VQ
0+50	1.1593	24.87	| VQ
0+55	1.3146	22.55	| Q
1+ 0	1.4747	23.24	| QV
1+ 5	1.6565	26.41	| Q
1+10	1.8718	31.26	| Q
1+15	2.0999	33.11	| QV
1+20	2.3304	33.48	| QV
1+25	2.5618	33.59	| Q V
1+30	2.8336	39.47	| Q V|
1+35	3.1219	41.86	| Q V
1+40	3.4044	41.02	| Q |V
1+45	3.7164	45.30	| Q| V
1+50	4.0738	51.91	| Q V
1+55	4.4328	52.13	| Q V
2+ 0	4.7832	50.87	| Q V
2+ 5	5.1402	51.83	| Q V
2+10	5.5271	56.19	| |Q V
2+15	6.0099	70.10	| Q V
2+20	6.5520	78.70	| Q | V
2+25	7.0884	77.89	| Q | V
2+30	7.8427	109.53	| |Q V
2+35	8.7309	128.96	| | Q V|
2+40	9.6879	138.96	| | Q | V
2+45	10.4583	111.86	| | Q | V
2+50	10.9154	66.37	| | Q | V
2+55	11.2388	46.96	| Q| | V
3+ 0	11.4783	34.78	| Q | | V|
3+ 5	11.6016	17.91	| Q | | V|
3+10	11.6667	9.46	|Q | | V|
3+15	11.7035	5.34	|Q | | V|
3+20	11.7219	2.67	Q | | V|
3+25	11.7290	1.04	Q | | V|
3+30	11.7329	0.56	Q | | V|
3+35	11.7348	0.28	Q | | V|
3+40	11.7349	0.02	Q | | V|

U n i t H y d r o g r a p h A n a l y s i s

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Study date 02/14/17 File: AREAA6100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

TRI-8 Builders - S/N 615

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TPM NO. 37235
PROPOSED CONDITION - ON-SITE
AREA "A"
100YR

Drainage Area = 77.96(Ac.) = 0.122 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 77.96(Ac.) = 0.122 Sq. Mi.
Length along longest watercourse = 5010.00(Ft.)
Length along longest watercourse measured to centroid = 1530.00(Ft.)
Length along longest watercourse = 0.949 Mi.
Length along longest watercourse measured to centroid = 0.290 Mi.
Difference in elevation = 80.80(Ft.)
Slope along watercourse = 85.1545 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.095 Hr.
Lag time = 5.68 Min.
25% of lag time = 1.42 Min.
40% of lag time = 2.27 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
77.96	0.90	70.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
77.96	2.60	202.70

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.900(In)
Area Averaged 100-Year Rainfall = 2.600(In)

Point rain (area averaged) = 2.600(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 2.599(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
77.960	32.00	0.900

Total Area Entered = 77.96(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
32.0	32.0	0.742	0.900	0.141	1.000	0.141
					Sum (F) =	0.141

Area averaged mean soil loss (F) (In/Hr) = 0.141
Minimum soil loss rate ((In/Hr)) = 0.070
(for 24 hour storm duration)

Soil low loss rate (decimal) = 0.180

U n i t H y d r o g r a p h
DESERT S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	87.970	13.284	10.437
2	0.167	175.941	48.525	38.126
3	0.250	263.911	18.777	14.753
4	0.333	351.881	8.412	6.609
5	0.417	439.852	4.618	3.628
6	0.500	527.822	2.824	2.219
7	0.583	615.793	1.559	1.225
8	0.667	703.763	1.018	0.800
9	0.750	791.733	0.983	0.772
			Sum = 100.000	Sum= 78.569

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.156	0.141	---	0.01
2	0.17	0.60	0.187	0.141	---	0.05
3	0.25	0.60	0.187	0.141	---	0.05
4	0.33	0.60	0.187	0.141	---	0.05
5	0.42	0.60	0.187	0.141	---	0.05
6	0.50	0.70	0.218	0.141	---	0.08
7	0.58	0.70	0.218	0.141	---	0.08
8	0.67	0.70	0.218	0.141	---	0.08
9	0.75	0.70	0.218	0.141	---	0.08
10	0.83	0.70	0.218	0.141	---	0.08
11	0.92	0.70	0.218	0.141	---	0.08
12	1.00	0.80	0.250	0.141	---	0.11
13	1.08	0.80	0.250	0.141	---	0.11
14	1.17	0.80	0.250	0.141	---	0.11
15	1.25	0.80	0.250	0.141	---	0.11
16	1.33	0.80	0.250	0.141	---	0.11
17	1.42	0.80	0.250	0.141	---	0.11
18	1.50	0.80	0.250	0.141	---	0.11
19	1.58	0.80	0.250	0.141	---	0.11
20	1.67	0.80	0.250	0.141	---	0.11
21	1.75	0.80	0.250	0.141	---	0.11
22	1.83	0.80	0.250	0.141	---	0.11
23	1.92	0.80	0.250	0.141	---	0.11
24	2.00	0.90	0.281	0.141	---	0.14
25	2.08	0.80	0.250	0.141	---	0.11
26	2.17	0.90	0.281	0.141	---	0.14
27	2.25	0.90	0.281	0.141	---	0.14
28	2.33	0.90	0.281	0.141	---	0.14
29	2.42	0.90	0.281	0.141	---	0.14
30	2.50	0.90	0.281	0.141	---	0.14
31	2.58	0.90	0.281	0.141	---	0.14
32	2.67	0.90	0.281	0.141	---	0.14
33	2.75	1.00	0.312	0.141	---	0.17
34	2.83	1.00	0.312	0.141	---	0.17
35	2.92	1.00	0.312	0.141	---	0.17
36	3.00	1.00	0.312	0.141	---	0.17
37	3.08	1.00	0.312	0.141	---	0.17
38	3.17	1.10	0.343	0.141	---	0.20
39	3.25	1.10	0.343	0.141	---	0.20
40	3.33	1.10	0.343	0.141	---	0.20
41	3.42	1.20	0.374	0.141	---	0.23
42	3.50	1.30	0.405	0.141	---	0.26
43	3.58	1.40	0.437	0.141	---	0.30
44	3.67	1.40	0.437	0.141	---	0.30
45	3.75	1.50	0.468	0.141	---	0.33
46	3.83	1.50	0.468	0.141	---	0.33
47	3.92	1.60	0.499	0.141	---	0.36
48	4.00	1.60	0.499	0.141	---	0.36
49	4.08	1.70	0.530	0.141	---	0.39
50	4.17	1.80	0.561	0.141	---	0.42
51	4.25	1.90	0.593	0.141	---	0.45
52	4.33	2.00	0.624	0.141	---	0.48
53	4.42	2.10	0.655	0.141	---	0.51

54	4.50	2.10	0.655	0.141	---	0.51
55	4.58	2.20	0.686	0.141	---	0.55
56	4.67	2.30	0.717	0.141	---	0.58
57	4.75	2.40	0.749	0.141	---	0.61
58	4.83	2.40	0.749	0.141	---	0.61
59	4.92	2.50	0.780	0.141	---	0.64
60	5.00	2.60	0.811	0.141	---	0.67
61	5.08	3.10	0.967	0.141	---	0.83
62	5.17	3.60	1.123	0.141	---	0.98
63	5.25	3.90	1.216	0.141	---	1.08
64	5.33	4.20	1.310	0.141	---	1.17
65	5.42	4.70	1.466	0.141	---	1.33
66	5.50	5.60	1.747	0.141	---	1.61
67	5.58	1.90	0.593	0.141	---	0.45
68	5.67	0.90	0.281	0.141	---	0.14
69	5.75	0.60	0.187	0.141	---	0.05
70	5.83	0.50	0.156	0.141	---	0.01
71	5.92	0.30	0.094	0.141	0.017	0.08
72	6.00	0.20	0.062	0.141	0.011	0.05
Sum =		100.0			Sum =	21.3

Flood volume = Effective rainfall 1.77(In)
times area 78.0(Ac.)/[(In)/(Ft.)] = 11.5(Ac.Ft)
Total soil loss = 0.82(In)
Total soil loss = 5.358(Ac.Ft)
Total rainfall = 2.60(In)
Flood volume = 502197.1 Cubic Feet
Total soil loss = 233392.2 Cubic Feet

Peak flow rate of this hydrograph = 101.383(CFS)

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6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	50.0	100.0	150.0	200.0
0+ 5	0.0011	0.16	Q				
0+10	0.0083	1.05	Q				
0+15	0.0253	2.46	Q				
0+20	0.0461	3.02	Q				
0+25	0.0688	3.28	Q				
0+30	0.0946	3.76	Q				
0+35	0.1293	5.03	VQ				
0+40	0.1675	5.54	VQ				
0+45	0.2073	5.79	VQ				
0+50	0.2481	5.92	VQ				
0+55	0.2894	5.99	|Q				
1+ 0	0.3332	6.36	|Q				
1+ 5	0.3854	7.57	|Q				
1+10	0.4409	8.06	|Q				
1+15	0.4978	8.26	|Q				
1+20	0.5555	8.38	|Q				
1+25	0.6136	8.45	|QV				
1+30	0.6721	8.48	|QV				
1+35	0.7307	8.51	|QV				
1+40	0.7894	8.53	|QV				
1+45	0.8482	8.53	|QV				
1+50	0.9070	8.53	|Q V				
1+55	0.9657	8.53	|Q V				
2+ 0	1.0268	8.86	|Q V				
2+ 5	1.0937	9.72	|Q V				
2+10	1.1579	9.32	|Q V				
2+15	1.2285	10.26	| Q V				
2+20	1.3017	10.62	| Q V				
2+25	1.3760	10.78	| Q V				
2+30	1.4508	10.87	| Q V				
2+35	1.5260	10.92	| Q V				
2+40	1.6015	10.96	| Q V				
2+45	1.6792	11.29	| Q V				
2+50	1.7653	12.50	| Q V				
2+55	1.8546	12.96	| Q V				
3+ 0	1.9453	13.17	| Q V				
3+ 5	2.0368	13.28	| Q V				
3+10	2.1309	13.68	| Q V				
3+15	2.2336	14.90	| Q V				
3+20	2.3396	15.39	| Q V				

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3+25	2.4494	15.95	Q V
3+30	2.5704	17.57	Q V
3+35	2.7055	19.62	Q V
3+40	2.8537	21.51	Q V
3+45	3.0097	22.64	Q V
3+50	3.1766	24.25	Q V
3+55	3.3506	25.25	Q V
4+ 0	3.5350	26.78	Q V
4+ 5	3.7263	27.77	Q V
4+10	3.9302	29.61	Q V
4+15	4.1489	31.76	Q V
4+20	4.3833	34.04	Q V
4+25	4.6340	36.39	Q V
4+30	4.8989	38.46	Q V
4+35	5.1722	39.70	Q V
4+40	5.4592	41.66	Q V
4+45	5.7616	43.91	Q V
4+50	6.0779	45.92	Q V
4+55	6.4023	47.11	Q V
5+ 0	6.7403	49.07	Q V
5+ 5	7.1025	52.59	Q V
5+10	7.5224	60.97	Q V
5+15	8.0086	70.60	Q V
5+20	8.5507	78.72	Q V
5+25	9.1501	87.02	Q V
5+30	9.8311	98.88	Q V
5+35	10.5293	101.38	Q V
5+40	10.9437	60.17	Q V
5+45	11.1726	33.25	Q V
5+50	11.3020	18.79	Q V
5+55	11.3817	11.57	Q V
6+ 0	11.4467	9.43	Q V
6+ 5	11.4916	6.52	Q V
6+10	11.5136	3.19	Q V
6+15	11.5216	1.17	Q V
6+20	11.5252	0.52	Q V
6+25	11.5270	0.26	Q V
6+30	11.5279	0.14	Q V
6+35	11.5286	0.10	Q V
6+40	11.5289	0.04	Q V

U n i t H y d r o g r a p h A n a l y s i s

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Study date 02/14/17 File: AREAA24100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

TRI-8 Builders - S/N 615

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TPM NO. 37235
PROPOSED CONDITION - ON-SITE
AREA "A"
100YR

Drainage Area = 77.96(Ac.) = 0.122 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 77.96(Ac.) = 0.122 Sq. Mi.
Length along longest watercourse = 5010.00(Ft.)
Length along longest watercourse measured to centroid = 1530.00(Ft.)
Length along longest watercourse = 0.949 Mi.
Length along longest watercourse measured to centroid = 0.290 Mi.
Difference in elevation = 80.80(Ft.)
Slope along watercourse = 85.1545 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.095 Hr.
Lag time = 5.68 Min.
25% of lag time = 1.42 Min.
40% of lag time = 2.27 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
77.96	1.35	105.25

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
77.96	4.30	335.23

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 1.350(In)
Area Averaged 100-Year Rainfall = 4.300(In)

Point rain (area averaged) = 4.300(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 4.299(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
77.960	32.00	0.900

Total Area Entered = 77.96(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
32.0	32.0	0.742	0.900	0.141	1.000	0.141
					Sum (F) =	0.141

Area averaged mean soil loss (F) (In/Hr) = 0.141
Minimum soil loss rate ((In/Hr)) = 0.070
(for 24 hour storm duration)

AREAA24100

Soil low loss rate (decimal) = 0.180

U n i t H y d r o g r a p h
DESERT S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	87.970	13.284	10.437
2	0.167	175.941	48.525	38.126
3	0.250	263.911	18.777	14.753
4	0.333	351.881	8.412	6.609
5	0.417	439.852	4.618	3.628
6	0.500	527.822	2.824	2.219
7	0.583	615.793	1.559	1.225
8	0.667	703.763	1.018	0.800
9	0.750	791.733	0.983	0.772
			Sum = 100.000	Sum= 78.569

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.034	0.250	0.006	0.03
2	0.17	0.07	0.034	0.249	0.006	0.03
3	0.25	0.07	0.034	0.248	0.006	0.03
4	0.33	0.10	0.052	0.247	0.009	0.04
5	0.42	0.10	0.052	0.246	0.009	0.04
6	0.50	0.10	0.052	0.245	0.009	0.04
7	0.58	0.10	0.052	0.244	0.009	0.04
8	0.67	0.10	0.052	0.243	0.009	0.04
9	0.75	0.10	0.052	0.242	0.009	0.04
10	0.83	0.13	0.069	0.241	0.012	0.06
11	0.92	0.13	0.069	0.240	0.012	0.06
12	1.00	0.13	0.069	0.239	0.012	0.06
13	1.08	0.10	0.052	0.238	0.009	0.04
14	1.17	0.10	0.052	0.238	0.009	0.04
15	1.25	0.10	0.052	0.237	0.009	0.04
16	1.33	0.10	0.052	0.236	0.009	0.04
17	1.42	0.10	0.052	0.235	0.009	0.04
18	1.50	0.10	0.052	0.234	0.009	0.04
19	1.58	0.10	0.052	0.233	0.009	0.04
20	1.67	0.10	0.052	0.232	0.009	0.04
21	1.75	0.10	0.052	0.231	0.009	0.04
22	1.83	0.13	0.069	0.230	0.012	0.06
23	1.92	0.13	0.069	0.229	0.012	0.06
24	2.00	0.13	0.069	0.228	0.012	0.06
25	2.08	0.13	0.069	0.227	0.012	0.06
26	2.17	0.13	0.069	0.226	0.012	0.06
27	2.25	0.13	0.069	0.225	0.012	0.06
28	2.33	0.13	0.069	0.224	0.012	0.06
29	2.42	0.13	0.069	0.224	0.012	0.06
30	2.50	0.13	0.069	0.223	0.012	0.06
31	2.58	0.17	0.086	0.222	0.015	0.07
32	2.67	0.17	0.086	0.221	0.015	0.07
33	2.75	0.17	0.086	0.220	0.015	0.07
34	2.83	0.17	0.086	0.219	0.015	0.07
35	2.92	0.17	0.086	0.218	0.015	0.07
36	3.00	0.17	0.086	0.217	0.015	0.07
37	3.08	0.17	0.086	0.216	0.015	0.07
38	3.17	0.17	0.086	0.215	0.015	0.07
39	3.25	0.17	0.086	0.215	0.015	0.07
40	3.33	0.17	0.086	0.214	0.015	0.07
41	3.42	0.17	0.086	0.213	0.015	0.07
42	3.50	0.17	0.086	0.212	0.015	0.07
43	3.58	0.17	0.086	0.211	0.015	0.07
44	3.67	0.17	0.086	0.210	0.015	0.07
45	3.75	0.17	0.086	0.209	0.015	0.07
46	3.83	0.20	0.103	0.208	0.019	0.08
47	3.92	0.20	0.103	0.207	0.019	0.08
48	4.00	0.20	0.103	0.207	0.019	0.08
49	4.08	0.20	0.103	0.206	0.019	0.08
50	4.17	0.20	0.103	0.205	0.019	0.08
51	4.25	0.20	0.103	0.204	0.019	0.08
52	4.33	0.23	0.120	0.203	0.022	0.10
53	4.42	0.23	0.120	0.202	0.022	0.10

54	4.50	0.23	0.120	0.201	0.022	0.10
55	4.58	0.23	0.120	0.200	0.022	0.10
56	4.67	0.23	0.120	0.200	0.022	0.10
57	4.75	0.23	0.120	0.199	0.022	0.10
58	4.83	0.27	0.138	0.198	0.025	0.11
59	4.92	0.27	0.138	0.197	0.025	0.11
60	5.00	0.27	0.138	0.196	0.025	0.11
61	5.08	0.20	0.103	0.195	0.019	0.08
62	5.17	0.20	0.103	0.194	0.019	0.08
63	5.25	0.20	0.103	0.194	0.019	0.08
64	5.33	0.23	0.120	0.193	0.022	0.10
65	5.42	0.23	0.120	0.192	0.022	0.10
66	5.50	0.23	0.120	0.191	0.022	0.10
67	5.58	0.27	0.138	0.190	0.025	0.11
68	5.67	0.27	0.138	0.189	0.025	0.11
69	5.75	0.27	0.138	0.189	0.025	0.11
70	5.83	0.27	0.138	0.188	0.025	0.11
71	5.92	0.27	0.138	0.187	0.025	0.11
72	6.00	0.27	0.138	0.186	0.025	0.11
73	6.08	0.30	0.155	0.185	0.028	0.13
74	6.17	0.30	0.155	0.184	0.028	0.13
75	6.25	0.30	0.155	0.184	0.028	0.13
76	6.33	0.30	0.155	0.183	0.028	0.13
77	6.42	0.30	0.155	0.182	0.028	0.13
78	6.50	0.30	0.155	0.181	0.028	0.13
79	6.58	0.33	0.172	0.180	0.031	0.14
80	6.67	0.33	0.172	0.180	0.031	0.14
81	6.75	0.33	0.172	0.179	0.031	0.14
82	6.83	0.33	0.172	0.178	0.031	0.14
83	6.92	0.33	0.172	0.177	0.031	0.14
84	7.00	0.33	0.172	0.176	0.031	0.14
85	7.08	0.33	0.172	0.176	0.031	0.14
86	7.17	0.33	0.172	0.175	0.031	0.14
87	7.25	0.33	0.172	0.174	0.031	0.14
88	7.33	0.37	0.189	0.173	---	0.02
89	7.42	0.37	0.189	0.172	---	0.02
90	7.50	0.37	0.189	0.172	---	0.02
91	7.58	0.40	0.206	0.171	---	0.04
92	7.67	0.40	0.206	0.170	---	0.04
93	7.75	0.40	0.206	0.169	---	0.04
94	7.83	0.43	0.224	0.168	---	0.06
95	7.92	0.43	0.224	0.168	---	0.06
96	8.00	0.43	0.224	0.167	---	0.06
97	8.08	0.50	0.258	0.166	---	0.09
98	8.17	0.50	0.258	0.165	---	0.09
99	8.25	0.50	0.258	0.165	---	0.09
100	8.33	0.50	0.258	0.164	---	0.09
101	8.42	0.50	0.258	0.163	---	0.09
102	8.50	0.50	0.258	0.162	---	0.10
103	8.58	0.53	0.275	0.161	---	0.11
104	8.67	0.53	0.275	0.161	---	0.11
105	8.75	0.53	0.275	0.160	---	0.12
106	8.83	0.57	0.292	0.159	---	0.13
107	8.92	0.57	0.292	0.158	---	0.13
108	9.00	0.57	0.292	0.158	---	0.13
109	9.08	0.63	0.327	0.157	---	0.17
110	9.17	0.63	0.327	0.156	---	0.17
111	9.25	0.63	0.327	0.155	---	0.17
112	9.33	0.67	0.344	0.155	---	0.19
113	9.42	0.67	0.344	0.154	---	0.19
114	9.50	0.67	0.344	0.153	---	0.19
115	9.58	0.70	0.361	0.153	---	0.21
116	9.67	0.70	0.361	0.152	---	0.21
117	9.75	0.70	0.361	0.151	---	0.21
118	9.83	0.73	0.378	0.150	---	0.23
119	9.92	0.73	0.378	0.150	---	0.23
120	10.00	0.73	0.378	0.149	---	0.23
121	10.08	0.50	0.258	0.148	---	0.11
122	10.17	0.50	0.258	0.147	---	0.11
123	10.25	0.50	0.258	0.147	---	0.11
124	10.33	0.50	0.258	0.146	---	0.11
125	10.42	0.50	0.258	0.145	---	0.11
126	10.50	0.50	0.258	0.145	---	0.11
127	10.58	0.67	0.344	0.144	---	0.20
128	10.67	0.67	0.344	0.143	---	0.20
129	10.75	0.67	0.344	0.142	---	0.20
130	10.83	0.67	0.344	0.142	---	0.20
131	10.92	0.67	0.344	0.141	---	0.20
132	11.00	0.67	0.344	0.140	---	0.20

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133	11.08	0.63	0.327	0.140	---	0.19
134	11.17	0.63	0.327	0.139	---	0.19
135	11.25	0.63	0.327	0.138	---	0.19
136	11.33	0.63	0.327	0.138	---	0.19
137	11.42	0.63	0.327	0.137	---	0.19
138	11.50	0.63	0.327	0.136	---	0.19
139	11.58	0.57	0.292	0.136	---	0.16
140	11.67	0.57	0.292	0.135	---	0.16
141	11.75	0.57	0.292	0.134	---	0.16
142	11.83	0.60	0.310	0.134	---	0.18
143	11.92	0.60	0.310	0.133	---	0.18
144	12.00	0.60	0.310	0.132	---	0.18
145	12.08	0.83	0.430	0.132	---	0.30
146	12.17	0.83	0.430	0.131	---	0.30
147	12.25	0.83	0.430	0.130	---	0.30
148	12.33	0.87	0.447	0.130	---	0.32
149	12.42	0.87	0.447	0.129	---	0.32
150	12.50	0.87	0.447	0.128	---	0.32
151	12.58	0.93	0.482	0.128	---	0.35
152	12.67	0.93	0.482	0.127	---	0.35
153	12.75	0.93	0.482	0.126	---	0.36
154	12.83	0.97	0.499	0.126	---	0.37
155	12.92	0.97	0.499	0.125	---	0.37
156	13.00	0.97	0.499	0.124	---	0.37
157	13.08	1.13	0.585	0.124	---	0.46
158	13.17	1.13	0.585	0.123	---	0.46
159	13.25	1.13	0.585	0.123	---	0.46
160	13.33	1.13	0.585	0.122	---	0.46
161	13.42	1.13	0.585	0.121	---	0.46
162	13.50	1.13	0.585	0.121	---	0.46
163	13.58	0.77	0.396	0.120	---	0.28
164	13.67	0.77	0.396	0.120	---	0.28
165	13.75	0.77	0.396	0.119	---	0.28
166	13.83	0.77	0.396	0.118	---	0.28
167	13.92	0.77	0.396	0.118	---	0.28
168	14.00	0.77	0.396	0.117	---	0.28
169	14.08	0.90	0.464	0.117	---	0.35
170	14.17	0.90	0.464	0.116	---	0.35
171	14.25	0.90	0.464	0.115	---	0.35
172	14.33	0.87	0.447	0.115	---	0.33
173	14.42	0.87	0.447	0.114	---	0.33
174	14.50	0.87	0.447	0.114	---	0.33
175	14.58	0.87	0.447	0.113	---	0.33
176	14.67	0.87	0.447	0.112	---	0.33
177	14.75	0.87	0.447	0.112	---	0.34
178	14.83	0.83	0.430	0.111	---	0.32
179	14.92	0.83	0.430	0.111	---	0.32
180	15.00	0.83	0.430	0.110	---	0.32
181	15.08	0.80	0.413	0.110	---	0.30
182	15.17	0.80	0.413	0.109	---	0.30
183	15.25	0.80	0.413	0.108	---	0.30
184	15.33	0.77	0.396	0.108	---	0.29
185	15.42	0.77	0.396	0.107	---	0.29
186	15.50	0.77	0.396	0.107	---	0.29
187	15.58	0.63	0.327	0.106	---	0.22
188	15.67	0.63	0.327	0.106	---	0.22
189	15.75	0.63	0.327	0.105	---	0.22
190	15.83	0.63	0.327	0.105	---	0.22
191	15.92	0.63	0.327	0.104	---	0.22
192	16.00	0.63	0.327	0.104	---	0.22
193	16.08	0.13	0.069	0.103	0.012	0.06
194	16.17	0.13	0.069	0.102	0.012	0.06
195	16.25	0.13	0.069	0.102	0.012	0.06
196	16.33	0.13	0.069	0.101	0.012	0.06
197	16.42	0.13	0.069	0.101	0.012	0.06
198	16.50	0.13	0.069	0.100	0.012	0.06
199	16.58	0.10	0.052	0.100	0.009	0.04
200	16.67	0.10	0.052	0.099	0.009	0.04
201	16.75	0.10	0.052	0.099	0.009	0.04
202	16.83	0.10	0.052	0.098	0.009	0.04
203	16.92	0.10	0.052	0.098	0.009	0.04
204	17.00	0.10	0.052	0.097	0.009	0.04
205	17.08	0.17	0.086	0.097	0.015	0.07
206	17.17	0.17	0.086	0.096	0.015	0.07
207	17.25	0.17	0.086	0.096	0.015	0.07
208	17.33	0.17	0.086	0.095	0.015	0.07
209	17.42	0.17	0.086	0.095	0.015	0.07
210	17.50	0.17	0.086	0.094	0.015	0.07
211	17.58	0.17	0.086	0.094	0.015	0.07

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212	17.67	0.17	0.086	0.094	0.015	0.07
213	17.75	0.17	0.086	0.093	0.015	0.07
214	17.83	0.13	0.069	0.093	0.012	0.06
215	17.92	0.13	0.069	0.092	0.012	0.06
216	18.00	0.13	0.069	0.092	0.012	0.06
217	18.08	0.13	0.069	0.091	0.012	0.06
218	18.17	0.13	0.069	0.091	0.012	0.06
219	18.25	0.13	0.069	0.090	0.012	0.06
220	18.33	0.13	0.069	0.090	0.012	0.06
221	18.42	0.13	0.069	0.089	0.012	0.06
222	18.50	0.13	0.069	0.089	0.012	0.06
223	18.58	0.10	0.052	0.089	0.009	0.04
224	18.67	0.10	0.052	0.088	0.009	0.04
225	18.75	0.10	0.052	0.088	0.009	0.04
226	18.83	0.07	0.034	0.087	0.006	0.03
227	18.92	0.07	0.034	0.087	0.006	0.03
228	19.00	0.07	0.034	0.087	0.006	0.03
229	19.08	0.10	0.052	0.086	0.009	0.04
230	19.17	0.10	0.052	0.086	0.009	0.04
231	19.25	0.10	0.052	0.085	0.009	0.04
232	19.33	0.13	0.069	0.085	0.012	0.06
233	19.42	0.13	0.069	0.085	0.012	0.06
234	19.50	0.13	0.069	0.084	0.012	0.06
235	19.58	0.10	0.052	0.084	0.009	0.04
236	19.67	0.10	0.052	0.083	0.009	0.04
237	19.75	0.10	0.052	0.083	0.009	0.04
238	19.83	0.07	0.034	0.083	0.006	0.03
239	19.92	0.07	0.034	0.082	0.006	0.03
240	20.00	0.07	0.034	0.082	0.006	0.03
241	20.08	0.10	0.052	0.082	0.009	0.04
242	20.17	0.10	0.052	0.081	0.009	0.04
243	20.25	0.10	0.052	0.081	0.009	0.04
244	20.33	0.10	0.052	0.080	0.009	0.04
245	20.42	0.10	0.052	0.080	0.009	0.04
246	20.50	0.10	0.052	0.080	0.009	0.04
247	20.58	0.10	0.052	0.079	0.009	0.04
248	20.67	0.10	0.052	0.079	0.009	0.04
249	20.75	0.10	0.052	0.079	0.009	0.04
250	20.83	0.07	0.034	0.078	0.006	0.03
251	20.92	0.07	0.034	0.078	0.006	0.03
252	21.00	0.07	0.034	0.078	0.006	0.03
253	21.08	0.10	0.052	0.078	0.009	0.04
254	21.17	0.10	0.052	0.077	0.009	0.04
255	21.25	0.10	0.052	0.077	0.009	0.04
256	21.33	0.07	0.034	0.077	0.006	0.03
257	21.42	0.07	0.034	0.076	0.006	0.03
258	21.50	0.07	0.034	0.076	0.006	0.03
259	21.58	0.10	0.052	0.076	0.009	0.04
260	21.67	0.10	0.052	0.075	0.009	0.04
261	21.75	0.10	0.052	0.075	0.009	0.04
262	21.83	0.07	0.034	0.075	0.006	0.03
263	21.92	0.07	0.034	0.075	0.006	0.03
264	22.00	0.07	0.034	0.074	0.006	0.03
265	22.08	0.10	0.052	0.074	0.009	0.04
266	22.17	0.10	0.052	0.074	0.009	0.04
267	22.25	0.10	0.052	0.074	0.009	0.04
268	22.33	0.07	0.034	0.073	0.006	0.03
269	22.42	0.07	0.034	0.073	0.006	0.03
270	22.50	0.07	0.034	0.073	0.006	0.03
271	22.58	0.07	0.034	0.073	0.006	0.03
272	22.67	0.07	0.034	0.073	0.006	0.03
273	22.75	0.07	0.034	0.072	0.006	0.03
274	22.83	0.07	0.034	0.072	0.006	0.03
275	22.92	0.07	0.034	0.072	0.006	0.03
276	23.00	0.07	0.034	0.072	0.006	0.03
277	23.08	0.07	0.034	0.072	0.006	0.03
278	23.17	0.07	0.034	0.072	0.006	0.03
279	23.25	0.07	0.034	0.071	0.006	0.03
280	23.33	0.07	0.034	0.071	0.006	0.03
281	23.42	0.07	0.034	0.071	0.006	0.03
282	23.50	0.07	0.034	0.071	0.006	0.03
283	23.58	0.07	0.034	0.071	0.006	0.03
284	23.67	0.07	0.034	0.071	0.006	0.03
285	23.75	0.07	0.034	0.071	0.006	0.03
286	23.83	0.07	0.034	0.071	0.006	0.03
287	23.92	0.07	0.034	0.071	0.006	0.03
288	24.00	0.07	0.034	0.070	0.006	0.03
	Sum =	100.0			Sum =	34.8

Flood volume = Effective rainfall 2.90(In)

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times area 78.0(Ac.)/[(In)/(Ft.)] = 18.9(Ac.Ft)
Total soil loss = 1.40(In)
Total soil loss = 9.068(Ac.Ft)
Total rainfall = 4.30(In)
Flood volume = 821687.9 Cubic Feet
Total soil loss = 395004.5 Cubic Feet

Peak flow rate of this hydrograph = 36.149(CFS)

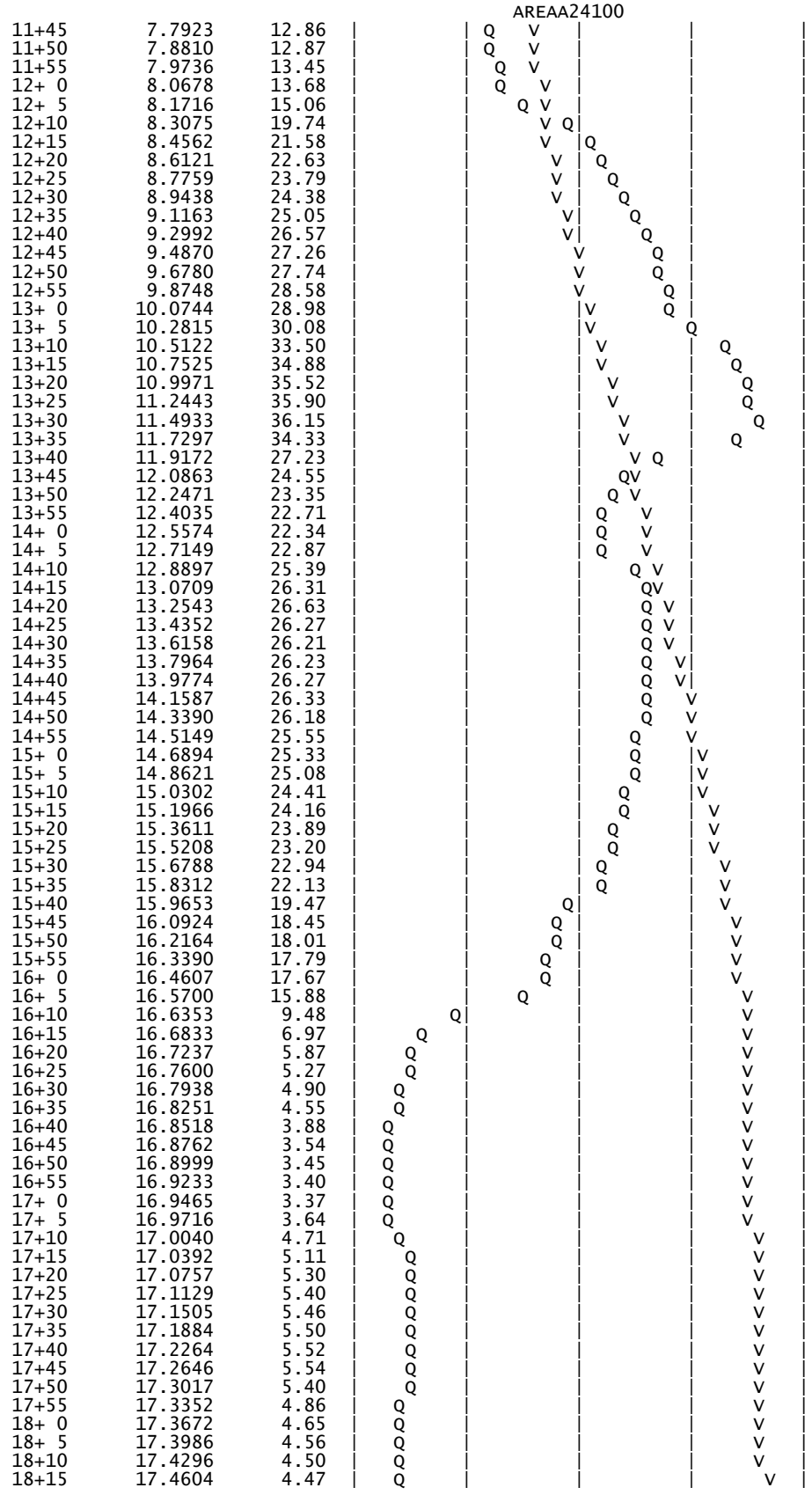
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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 10.0 20.0 30.0 40.0
0+ 5	0.0020	0.29	Q
0+10	0.0115	1.37	VQ
0+15	0.0238	1.79	VQ
0+20	0.0384	2.12	V Q
0+25	0.0574	2.76	V Q
0+30	0.0783	3.03	V Q
0+35	0.1000	3.16	V Q
0+40	0.1223	3.23	V Q
0+45	0.1449	3.29	V Q
0+50	0.1687	3.45	V Q
0+55	0.1962	4.00	V Q
1+ 0	0.2253	4.22	V Q
1+ 5	0.2540	4.16	V Q
1+10	0.2793	3.68	V Q
1+15	0.3034	3.50	V Q
1+20	0.3270	3.43	V Q
1+25	0.3503	3.39	V Q
1+30	0.3735	3.37	V Q
1+35	0.3966	3.35	V Q
1+40	0.4195	3.34	V Q
1+45	0.4424	3.33	V Q
1+50	0.4664	3.47	V Q
1+55	0.4940	4.01	|V Q
2+ 0	0.5230	4.22	|V Q
2+ 5	0.5527	4.31	|V Q
2+10	0.5828	4.36	|V Q
2+15	0.6131	4.39	|V Q
2+20	0.6434	4.41	|V Q
2+25	0.6739	4.42	|V Q
2+30	0.7044	4.43	|V Q
2+35	0.7360	4.58	|V Q
2+40	0.7713	5.12	|V Q
2+45	0.8079	5.33	|V Q
2+50	0.8453	5.42	|V Q
2+55	0.8830	5.47	|V Q
3+ 0	0.9209	5.50	|V Q
3+ 5	0.9589	5.52	| V Q
3+10	0.9970	5.53	| V Q
3+15	1.0352	5.54	| V Q
3+20	1.0733	5.54	| V Q
3+25	1.1115	5.54	| V Q
3+30	1.1497	5.54	| V Q
3+35	1.1878	5.54	| V Q
3+40	1.2260	5.54	| V Q
3+45	1.2642	5.54	| V Q
3+50	1.3034	5.69	| V Q
3+55	1.3463	6.23	| V Q
4+ 0	1.3906	6.44	| V Q
4+ 5	1.4356	6.53	| V Q
4+10	1.4809	6.58	| V Q
4+15	1.5264	6.61	| V Q
4+20	1.5731	6.78	| V Q
4+25	1.6235	7.33	| V Q
4+30	1.6755	7.54	| V Q
4+35	1.7281	7.64	| V Q
4+40	1.7811	7.69	| V Q
4+45	1.8342	7.72	| V Q
4+50	1.8885	7.88	| V Q
4+55	1.9466	8.43	| V Q
5+ 0	2.0062	8.65	| V Q
5+ 5	2.0644	8.45	| V Q

5+10	2.1156	7.43	V Q				
5+15	2.1641	7.04	V Q				
5+20	2.2124	7.02	V Q				
5+25	2.2638	7.47	V Q				
5+30	2.3163	7.62	V Q				
5+35	2.3703	7.83	V Q				
5+40	2.4281	8.40	V Q				
5+45	2.4874	8.61	V Q				
5+50	2.5475	8.72	V Q				
5+55	2.6080	8.79	V Q				
6+ 0	2.6688	8.83	V Q				
6+ 5	2.7308	8.99	V Q				
6+10	2.7965	9.54	V Q				
6+15	2.8637	9.76	V Q				
6+20	2.9316	9.85	V Q				
6+25	2.9998	9.91	V Q				
6+30	3.0682	9.94	V Q				
6+35	3.1378	10.10	V Q				
6+40	3.2112	10.65	V Q				
6+45	3.2860	10.87	V Q				
6+50	3.3615	10.96	V Q				
6+55	3.4374	11.01	V Q				
7+ 0	3.5135	11.05	V Q				
7+ 5	3.5897	11.06	V Q				
7+10	3.6659	11.07	V Q				
7+15	3.7423	11.09	V Q				
7+20	3.8096	9.78	VQ				
7+25	3.8442	5.02	Q V				
7+30	3.8664	3.22	Q V				
7+35	3.8844	2.62	Q V				
7+40	3.9042	2.88	Q V				
7+45	3.9243	2.91	Q V				
7+50	3.9457	3.11	Q V				
7+55	3.9718	3.79	Q V				
8+ 0	3.9996	4.05	Q V				
8+ 5	4.0313	4.60	Q V				
8+10	4.0730	6.05	Q V				
8+15	4.1189	6.67	Q V				
8+20	4.1670	6.98	Q V				
8+25	4.2164	7.18	QV				
8+30	4.2669	7.33	Q V				
8+35	4.3193	7.61	Q V				
8+40	4.3768	8.35	QV				
8+45	4.4367	8.69	QV				
8+50	4.4990	9.05	Q				
8+55	4.5667	9.82	Q				
9+ 0	4.6367	10.18	VQ				
9+ 5	4.7106	10.73	VQ				
9+10	4.7945	12.18	V Q				
9+15	4.8826	12.79	V Q				
9+20	4.9741	13.28	V Q				
9+25	5.0714	14.13	V Q				
9+30	5.1715	14.53	V Q				
9+35	5.2743	14.93	V Q				
9+40	5.3826	15.73	V Q				
9+45	5.4936	16.11	V Q				
9+50	5.6071	16.48	V Q				
9+55	5.7260	17.27	V Q				
10+ 0	5.8475	17.63	V Q				
10+ 5	5.9615	16.57	V Q				
10+10	6.0449	12.11	Q				
10+15	6.1168	10.44	Q V				
10+20	6.1838	9.72	Q V				
10+25	6.2482	9.35	Q V				
10+30	6.3112	9.15	Q V				
10+35	6.3798	9.96	Q V				
10+40	6.4707	13.20	Q				
10+45	6.5701	14.43	VQ				
10+50	6.6738	15.06	VQ				
10+55	6.7800	15.42	VQ				
11+ 0	6.8880	15.67	VQ				
11+ 5	6.9957	15.65	VQ				
11+10	7.0998	15.12	Q				
11+15	7.2030	14.98	QV				
11+20	7.3058	14.92	QV				
11+25	7.4085	14.92	QV				
11+30	7.5114	14.93	QV				
11+35	7.6119	14.60	Q V				
11+40	7.7037	13.33	Q V				



11+45	7.7923	12.86	
11+50	7.8810	12.87	
11+55	7.9736	13.45	
12+ 0	8.0678	13.68	
12+ 5	8.1716	15.06	
12+10	8.3075	19.74	
12+15	8.4562	21.58	
12+20	8.6121	22.63	
12+25	8.7759	23.79	
12+30	8.9438	24.38	
12+35	9.1163	25.05	
12+40	9.2992	26.57	
12+45	9.4870	27.26	
12+50	9.6780	27.74	
12+55	9.8748	28.58	
13+ 0	10.0744	28.98	
13+ 5	10.2815	30.08	
13+10	10.5122	33.50	
13+15	10.7525	34.88	
13+20	10.9971	35.52	
13+25	11.2443	35.90	
13+30	11.4933	36.15	
13+35	11.7297	34.33	
13+40	11.9172	27.23	
13+45	12.0863	24.55	
13+50	12.2471	23.35	
13+55	12.4035	22.71	
14+ 0	12.5574	22.34	
14+ 5	12.7149	22.87	
14+10	12.8897	25.39	
14+15	13.0709	26.31	
14+20	13.2543	26.63	
14+25	13.4352	26.27	
14+30	13.6158	26.21	
14+35	13.7964	26.23	
14+40	13.9774	26.27	
14+45	14.1587	26.33	
14+50	14.3390	26.18	
14+55	14.5149	25.55	
15+ 0	14.6894	25.33	
15+ 5	14.8621	25.08	
15+10	15.0302	24.41	
15+15	15.1966	24.16	
15+20	15.3611	23.89	
15+25	15.5208	23.20	
15+30	15.6788	22.94	
15+35	15.8312	22.13	
15+40	15.9653	19.47	
15+45	16.0924	18.45	
15+50	16.2164	18.01	
15+55	16.3390	17.79	
16+ 0	16.4607	17.67	
16+ 5	16.5700	15.88	
16+10	16.6353	9.48	
16+15	16.6833	6.97	
16+20	16.7237	5.87	
16+25	16.7600	5.27	
16+30	16.7938	4.90	
16+35	16.8251	4.55	
16+40	16.8518	3.88	
16+45	16.8762	3.54	
16+50	16.8999	3.45	
16+55	16.9233	3.40	
17+ 0	16.9465	3.37	
17+ 5	16.9716	3.64	
17+10	17.0040	4.71	
17+15	17.0392	5.11	
17+20	17.0757	5.30	
17+25	17.1129	5.40	
17+30	17.1505	5.46	
17+35	17.1884	5.50	
17+40	17.2264	5.52	
17+45	17.2646	5.54	
17+50	17.3017	5.40	
17+55	17.3352	4.86	
18+ 0	17.3672	4.65	
18+ 5	17.3986	4.56	
18+10	17.4296	4.50	
18+15	17.4604	4.47	

18+20	17.4911	4.46	Q			V
18+25	17.5217	4.45	Q			V
18+30	17.5523	4.43	Q			V
18+35	17.5818	4.29	Q			V
18+40	17.6076	3.75	Q			V
18+45	17.6320	3.54	Q			V
18+50	17.6547	3.30	Q			V
18+55	17.6734	2.71	Q			V
19+ 0	17.6904	2.47	Q			V
19+ 5	17.7077	2.51	Q			V
19+10	17.7283	2.98	Q			V
19+15	17.7499	3.15	Q			V
19+20	17.7732	3.37	Q			V
19+25	17.8004	3.95	Q			V
19+30	17.8292	4.18	Q			V
19+35	17.8577	4.14	Q			V
19+40	17.8830	3.67	Q			V
19+45	17.9071	3.50	Q			V
19+50	17.9296	3.28	Q			V
19+55	17.9482	2.70	Q			V
20+ 0	17.9653	2.47	Q			V
20+ 5	17.9825	2.51	Q			V
20+10	18.0031	2.98	Q			V
20+15	18.0248	3.15	Q			V
20+20	18.0470	3.23	Q			V
20+25	18.0695	3.27	Q			V
20+30	18.0921	3.29	Q			V
20+35	18.1149	3.30	Q			V
20+40	18.1377	3.31	Q			V
20+45	18.1606	3.33	Q			V
20+50	18.1825	3.18	Q			V
20+55	18.2007	2.64	Q			V
21+ 0	18.2174	2.43	Q			V
21+ 5	18.2346	2.49	Q			V
21+10	18.2550	2.97	Q			V
21+15	18.2767	3.15	Q			V
21+20	18.2979	3.08	Q			V
21+25	18.3157	2.58	Q			V
21+30	18.3322	2.39	Q			V
21+35	18.3492	2.46	Q			V
21+40	18.3696	2.96	Q			V
21+45	18.3912	3.15	Q			V
21+50	18.4125	3.08	Q			V
21+55	18.4302	2.58	Q			V
22+ 0	18.4467	2.39	Q			V
22+ 5	18.4637	2.46	Q			V
22+10	18.4841	2.96	Q			V
22+15	18.5058	3.15	Q			V
22+20	18.5270	3.08	Q			V
22+25	18.5447	2.58	Q			V
22+30	18.5612	2.39	Q			V
22+35	18.5772	2.32	Q			V
22+40	18.5929	2.28	Q			V
22+45	18.6084	2.26	Q			V
22+50	18.6238	2.24	Q			V
22+55	18.6392	2.23	Q			V
23+ 0	18.6544	2.22	Q			V
23+ 5	18.6697	2.22	Q			V
23+10	18.6850	2.22	Q			V
23+15	18.7002	2.22	Q			V
23+20	18.7155	2.22	Q			V
23+25	18.7308	2.22	Q			V
23+30	18.7461	2.22	Q			V
23+35	18.7613	2.22	Q			V
23+40	18.7766	2.22	Q			V
23+45	18.7919	2.22	Q			V
23+50	18.8071	2.22	Q			V
23+55	18.8224	2.22	Q			V
24+ 0	18.8377	2.22	Q			V
24+ 5	18.8509	1.92	Q			V
24+10	18.8567	0.85	Q			V
24+15	18.8597	0.43	Q			V
24+20	18.8614	0.24	Q			V
24+25	18.8624	0.14	Q			V
24+30	18.8629	0.08	Q			V
24+35	18.8632	0.04	Q			V
24+40	18.8634	0.02	Q			V

U n i t H y d r o g r a p h A n a l y s i s

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

TRI-8 Builders - S/N 615

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TPM NO. 37235
PROPOSED CONDITION - ON-SITE
AREA "B"
100YR

Drainage Area = 10.33(Ac.) = 0.016 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 10.33(Ac.) = 0.016 Sq. Mi.
Length along longest watercourse = 885.00(Ft.)
Length along longest watercourse measured to centroid = 230.00(Ft.)
Length along longest watercourse = 0.168 Mi.
Length along longest watercourse measured to centroid = 0.044 Mi.
Difference in elevation = 19.00(Ft.)
Slope along watercourse = 113.3559 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.023 Hr.
Lag time = 1.36 Min.
25% of lag time = 0.34 Min.
40% of lag time = 0.54 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
10.33	0.55	5.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
10.33	1.60	16.53

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.550(In)
Area Averaged 100-Year Rainfall = 1.600(In)

Point rain (area averaged) = 1.600(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 1.600(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
10.330	32.00	0.900

Total Area Entered = 10.33(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
32.0	32.0	0.742	0.900	0.141	1.000	0.141
					Sum (F) =	0.141

Area averaged mean soil loss (F) (In/Hr) = 0.141
Minimum soil loss rate ((In/Hr)) = 0.070
(for 24 hour storm duration)

Soil low loss rate (decimal) = 0.180

Slope of intensity-duration curve for a 1 hour storm =0.5800

U n i t H y d r o g r a p h
DESERT S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	368.780	62.586	6.516
2	0.167	737.560	34.658	3.608
3	0.250	1106.340	2.756	0.287
		Sum = 100.000	Sum=	10.411

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	3.60	0.691	0.141	---	0.55
2	0.17	4.20	0.806	0.141	---	0.67
3	0.25	4.40	0.845	0.141	---	0.70
4	0.33	4.60	0.883	0.141	---	0.74
5	0.42	5.00	0.960	0.141	---	0.82
6	0.50	5.60	1.075	0.141	---	0.93
7	0.58	6.40	1.229	0.141	---	1.09
8	0.67	8.10	1.555	0.141	---	1.41
9	0.75	13.10	2.515	0.141	---	2.37
10	0.83	34.50	6.623	0.141	---	6.48
11	0.92	6.70	1.286	0.141	---	1.15
12	1.00	3.80	0.730	0.141	---	0.59
Sum =		100.0			Sum =	17.5

Flood volume = Effective rainfall 1.46(In)
times area 10.3(Ac.)/[(In)/(Ft.)] = 1.3(Ac.Ft)
Total soil loss = 0.14(In)
Total soil loss = 0.121(Ac.Ft)
Total rainfall = 1.60(In)
Flood volume = 54704.6 Cubic Feet
Total soil loss = 5286.5 Cubic Feet

Peak flow rate of this hydrograph = 51.235(CFS)

1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	15.0	30.0	45.0	60.0
0+ 5	0.0247	3.59	V Q				
0+10	0.0683	6.32	| V Q				
0+15	0.1175	7.15	| VQ				
0+20	0.1696	7.57	| Q				
0+25	0.2262	8.22	| Q V				
0+30	0.2900	9.26	| Q V|				
0+35	0.3637	10.70	| Q |V				
0+40	0.4560	13.41	| Q | V				
0+45	0.5999	20.89	| | Q V|				
0+50	0.9528	51.24	| | | V Q				
0+55	1.1701	31.55	| | |Q | V |				
1+ 0	1.2378	9.83	| Q | | V|				
1+ 5	1.2547	2.45	|Q | | V|				
1+10	1.2558	0.17	Q | | V				

U n i t H y d r o g r a p h A n a l y s i s

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

TRI-8 Builders - S/N 615

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TPM NO. 37235
PROPOSED CONDITION - ON-SITE
AREA "B"
100YR

Drainage Area = 10.33(Ac.) = 0.016 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 10.33(Ac.) = 0.016 Sq. Mi.
Length along longest watercourse = 885.00(Ft.)
Length along longest watercourse measured to centroid = 230.00(Ft.)
Length along longest watercourse = 0.168 Mi.
Length along longest watercourse measured to centroid = 0.044 Mi.
Difference in elevation = 19.00(Ft.)
Slope along watercourse = 113.3559 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.023 Hr.
Lag time = 1.36 Min.
25% of lag time = 0.34 Min.
40% of lag time = 0.54 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
10.33	0.74	7.64

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
10.33	2.23	23.04

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.740(In)
Area Averaged 100-Year Rainfall = 2.230(In)

Point rain (area averaged) = 2.230(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 2.230(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
10.330	32.00	0.900

Total Area Entered = 10.33(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
32.0	32.0	0.742	0.900	0.141	1.000	0.141
					Sum (F) =	0.141

Area averaged mean soil loss (F) (In/Hr) = 0.141
Minimum soil loss rate ((In/Hr)) = 0.070
(for 24 hour storm duration)

Soil low loss rate (decimal) = 0.180

U n i t H y d r o g r a p h
DESERT S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	368.780	62.586	6.516
2	0.167	737.560	34.658	3.608
3	0.250	1106.340	2.756	0.287
		Sum = 100.000	Sum=	10.411

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.348	0.141	---	0.21
2	0.17	1.30	0.348	0.141	---	0.21
3	0.25	1.10	0.294	0.141	---	0.15
4	0.33	1.50	0.401	0.141	---	0.26
5	0.42	1.50	0.401	0.141	---	0.26
6	0.50	1.80	0.482	0.141	---	0.34
7	0.58	1.50	0.401	0.141	---	0.26
8	0.67	1.80	0.482	0.141	---	0.34
9	0.75	1.80	0.482	0.141	---	0.34
10	0.83	1.50	0.401	0.141	---	0.26
11	0.92	1.60	0.428	0.141	---	0.29
12	1.00	1.80	0.482	0.141	---	0.34
13	1.08	2.20	0.589	0.141	---	0.45
14	1.17	2.20	0.589	0.141	---	0.45
15	1.25	2.20	0.589	0.141	---	0.45
16	1.33	2.00	0.535	0.141	---	0.39
17	1.42	2.60	0.696	0.141	---	0.55
18	1.50	2.70	0.722	0.141	---	0.58
19	1.58	2.40	0.642	0.141	---	0.50
20	1.67	2.70	0.722	0.141	---	0.58
21	1.75	3.30	0.883	0.141	---	0.74
22	1.83	3.10	0.830	0.141	---	0.69
23	1.92	2.90	0.776	0.141	---	0.64
24	2.00	3.00	0.803	0.141	---	0.66
25	2.08	3.10	0.830	0.141	---	0.69
26	2.17	4.20	1.124	0.141	---	0.98
27	2.25	5.00	1.338	0.141	---	1.20
28	2.33	3.50	0.937	0.141	---	0.80
29	2.42	6.80	1.820	0.141	---	1.68
30	2.50	7.30	1.953	0.141	---	1.81
31	2.58	8.20	2.194	0.141	---	2.05
32	2.67	5.90	1.579	0.141	---	1.44
33	2.75	2.00	0.535	0.141	---	0.39
34	2.83	1.80	0.482	0.141	---	0.34
35	2.92	1.80	0.482	0.141	---	0.34
36	3.00	0.60	0.161	0.141	---	0.02
Sum =		100.0			Sum =	21.7

Flood volume = Effective rainfall 1.81(In)
times area 10.3(Ac.)/[(In)/(Ft.)] = 1.6(Ac.Ft)
Total soil loss = 0.42(In)
Total soil loss = 0.364(Ac.Ft)
Total rainfall = 2.23(In)
Flood volume = 67757.2 Cubic Feet
Total soil loss = 15859.4 Cubic Feet

Peak flow rate of this hydrograph = 20.410(CFS)

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3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	7.5	15.0	22.5	30.0
0+ 5	0.0093	1.35	VQ				
0+10	0.0237	2.10	V Q				
0+15	0.0362	1.81	V Q				

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0+20	0.0521	2.31	V Q
0+25	0.0705	2.68	V Q
0+30	0.0928	3.24	V Q
0+35	0.1135	3.00	V Q
0+40	0.1359	3.26	VQ
0+45	0.1602	3.53	Q
0+50	0.1811	3.03	Q
0+55	0.2011	2.91	Q V
1+ 0	0.2240	3.33	QV
1+ 5	0.2532	4.23	QV
1+10	0.2851	4.63	QV
1+15	0.3172	4.66	Q V
1+20	0.3469	4.31	Q V
1+25	0.3825	5.17	Q V
1+30	0.4232	5.91	Q V
1+35	0.4613	5.53	Q V
1+40	0.5010	5.77	Q V
1+45	0.5497	7.08	Q V
1+50	0.6003	7.33	Q V
1+55	0.6473	6.84	Q V
2+ 0	0.6942	6.80	Q V
2+ 5	0.7428	7.06	Q V
2+10	0.8054	9.08	Q V
2+15	0.8849	11.55	Q V
2+20	0.9523	9.79	Q V
2+25	1.0499	14.16	Q V
2+30	1.1745	18.10	Q V
2+35	1.3151	20.41	Q V
2+40	1.4343	17.31	Q V
2+45	1.4918	8.35	Q V
2+50	1.5197	4.06	Q V
2+55	1.5443	3.56	Q V
3+ 0	1.5543	1.46	Q V
3+ 5	1.5555	0.17	Q V
3+10	1.5555	0.01	Q V

U n i t H y d r o g r a p h A n a l y s i s

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

TRI-8 Builders - S/N 615

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TPM NO. 37235
PROPOSED CONDITION - ON-SITE
AREA "B"
100YR

Drainage Area = 10.33(Ac.) = 0.016 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 10.33(Ac.) = 0.016 Sq. Mi.
Length along longest watercourse = 885.00(Ft.)
Length along longest watercourse measured to centroid = 230.00(Ft.)
Length along longest watercourse = 0.168 Mi.
Length along longest watercourse measured to centroid = 0.044 Mi.
Difference in elevation = 19.00(Ft.)
Slope along watercourse = 113.3559 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.023 Hr.
Lag time = 1.36 Min.
25% of lag time = 0.34 Min.
40% of lag time = 0.54 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
10.33	0.90	9.30

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
10.33	2.60	26.86

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.900(In)
Area Averaged 100-Year Rainfall = 2.600(In)

Point rain (area averaged) = 2.600(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 2.600(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
10.330	32.00	0.900

Total Area Entered = 10.33(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
32.0	32.0	0.742	0.900	0.141	1.000	0.141
					Sum (F) =	0.141

Area averaged mean soil loss (F) (In/Hr) = 0.141
Minimum soil loss rate ((In/Hr)) = 0.070
(for 24 hour storm duration)

Soil low loss rate (decimal) = 0.180

U n i t H y d r o g r a p h
DESERT S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	368.780	62.586	6.516
2	0.167	737.560	34.658	3.608
3	0.250	1106.340	2.756	0.287
			Sum = 100.000	Sum= 10.411

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.156	0.141	---	0.02
2	0.17	0.60	0.187	0.141	---	0.05
3	0.25	0.60	0.187	0.141	---	0.05
4	0.33	0.60	0.187	0.141	---	0.05
5	0.42	0.60	0.187	0.141	---	0.05
6	0.50	0.70	0.218	0.141	---	0.08
7	0.58	0.70	0.218	0.141	---	0.08
8	0.67	0.70	0.218	0.141	---	0.08
9	0.75	0.70	0.218	0.141	---	0.08
10	0.83	0.70	0.218	0.141	---	0.08
11	0.92	0.70	0.218	0.141	---	0.08
12	1.00	0.80	0.250	0.141	---	0.11
13	1.08	0.80	0.250	0.141	---	0.11
14	1.17	0.80	0.250	0.141	---	0.11
15	1.25	0.80	0.250	0.141	---	0.11
16	1.33	0.80	0.250	0.141	---	0.11
17	1.42	0.80	0.250	0.141	---	0.11
18	1.50	0.80	0.250	0.141	---	0.11
19	1.58	0.80	0.250	0.141	---	0.11
20	1.67	0.80	0.250	0.141	---	0.11
21	1.75	0.80	0.250	0.141	---	0.11
22	1.83	0.80	0.250	0.141	---	0.11
23	1.92	0.80	0.250	0.141	---	0.11
24	2.00	0.90	0.281	0.141	---	0.14
25	2.08	0.80	0.250	0.141	---	0.11
26	2.17	0.90	0.281	0.141	---	0.14
27	2.25	0.90	0.281	0.141	---	0.14
28	2.33	0.90	0.281	0.141	---	0.14
29	2.42	0.90	0.281	0.141	---	0.14
30	2.50	0.90	0.281	0.141	---	0.14
31	2.58	0.90	0.281	0.141	---	0.14
32	2.67	0.90	0.281	0.141	---	0.14
33	2.75	1.00	0.312	0.141	---	0.17
34	2.83	1.00	0.312	0.141	---	0.17
35	2.92	1.00	0.312	0.141	---	0.17
36	3.00	1.00	0.312	0.141	---	0.17
37	3.08	1.00	0.312	0.141	---	0.17
38	3.17	1.10	0.343	0.141	---	0.20
39	3.25	1.10	0.343	0.141	---	0.20
40	3.33	1.10	0.343	0.141	---	0.20
41	3.42	1.20	0.374	0.141	---	0.23
42	3.50	1.30	0.406	0.141	---	0.26
43	3.58	1.40	0.437	0.141	---	0.30
44	3.67	1.40	0.437	0.141	---	0.30
45	3.75	1.50	0.468	0.141	---	0.33
46	3.83	1.50	0.468	0.141	---	0.33
47	3.92	1.60	0.499	0.141	---	0.36
48	4.00	1.60	0.499	0.141	---	0.36
49	4.08	1.70	0.530	0.141	---	0.39
50	4.17	1.80	0.562	0.141	---	0.42
51	4.25	1.90	0.593	0.141	---	0.45
52	4.33	2.00	0.624	0.141	---	0.48
53	4.42	2.10	0.655	0.141	---	0.51
54	4.50	2.10	0.655	0.141	---	0.51
55	4.58	2.20	0.686	0.141	---	0.55
56	4.67	2.30	0.718	0.141	---	0.58
57	4.75	2.40	0.749	0.141	---	0.61
58	4.83	2.40	0.749	0.141	---	0.61
59	4.92	2.50	0.780	0.141	---	0.64

60	5.00	2.60	0.811	0.141	---	0.67
61	5.08	3.10	0.967	0.141	---	0.83
62	5.17	3.60	1.123	0.141	---	0.98
63	5.25	3.90	1.217	0.141	---	1.08
64	5.33	4.20	1.310	0.141	---	1.17
65	5.42	4.70	1.466	0.141	---	1.33
66	5.50	5.60	1.747	0.141	---	1.61
67	5.58	1.90	0.593	0.141	---	0.45
68	5.67	0.90	0.281	0.141	---	0.14
69	5.75	0.60	0.187	0.141	---	0.05
70	5.83	0.50	0.156	0.141	---	0.02
71	5.92	0.30	0.094	0.141	0.017	0.08
72	6.00	0.20	0.062	0.141	0.011	0.05
Sum =		100.0			Sum =	21.3

Flood volume = Effective rainfall 1.78(In)
times area 10.3(Ac.)/[(In)/(Ft.)] = 1.5(Ac.Ft)
Total soil loss = 0.82(In)
Total soil loss = 0.710(Ac.Ft)
Total rainfall = 2.60(In)
Flood volume = 66565.7 Cubic Feet
Total soil loss = 30925.4 Cubic Feet

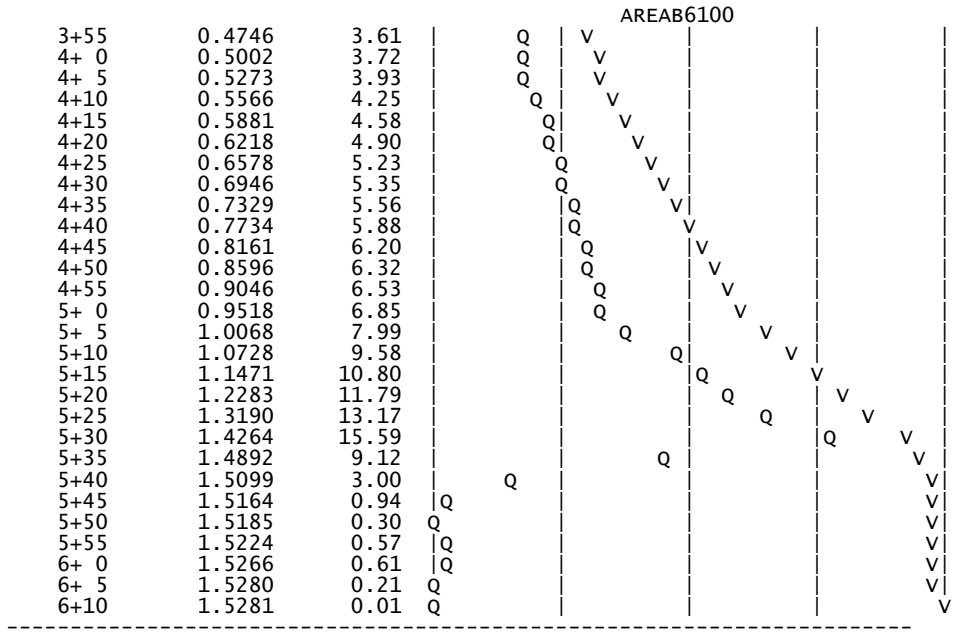
Peak flow rate of this hydrograph = 15.591(CFS)

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6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0007	0.10	Q	|	|	|	|
0+10	0.0031	0.36	Q	|	|	|	|
0+15	0.0064	0.47	Q	|	|	|	|
0+20	0.0097	0.48	Q	|	|	|	|
0+25	0.0130	0.48	Q	|	|	|	|
0+30	0.0177	0.68	VQ	|	|	|	|
0+35	0.0232	0.80	VQ	|	|	|	|
0+40	0.0288	0.81	VQ	|	|	|	|
0+45	0.0343	0.81	VQ	|	|	|	|
0+50	0.0399	0.81	|Q	|	|	|	|
0+55	0.0454	0.81	|Q	|	|	|	|
1+ 0	0.0524	1.01	|VQ	|	|	|	|
1+ 5	0.0601	1.12	|VQ	|	|	|	|
1+10	0.0679	1.13	|VQ	|	|	|	|
1+15	0.0757	1.13	|VQ	|	|	|	|
1+20	0.0835	1.13	| Q	|	|	|	|
1+25	0.0913	1.13	| Q	|	|	|	|
1+30	0.0991	1.13	| Q	|	|	|	|
1+35	0.1069	1.13	| Q	|	|	|	|
1+40	0.1146	1.13	| QV	|	|	|	|
1+45	0.1224	1.13	| QV	|	|	|	|
1+50	0.1302	1.13	| QV	|	|	|	|
1+55	0.1380	1.13	| QV	|	|	|	|
2+ 0	0.1472	1.33	| QV	|	|	|	|
2+ 5	0.1558	1.24	| Q V	|	|	|	|
2+10	0.1650	1.34	| Q V	|	|	|	|
2+15	0.1750	1.45	| Q V	|	|	|	|
2+20	0.1850	1.46	| Q V	|	|	|	|
2+25	0.1951	1.46	| Q V	|	|	|	|
2+30	0.2051	1.46	| Q V	|	|	|	|
2+35	0.2151	1.46	| Q V	|	|	|	|
2+40	0.2252	1.46	| Q V	|	|	|	|
2+45	0.2366	1.66	| Q V	|	|	|	|
2+50	0.2488	1.77	| Q V	|	|	|	|
2+55	0.2611	1.78	| Q V	|	|	|	|
3+ 0	0.2733	1.78	| Q V	|	|	|	|
3+ 5	0.2856	1.78	| Q V	|	|	|	|
3+10	0.2993	1.98	| Q V	|	|	|	|
3+15	0.3137	2.10	| Q V	|	|	|	|
3+20	0.3282	2.11	| Q V	|	|	|	|
3+25	0.3441	2.31	| Q V|	|	|	|	|
3+30	0.3622	2.63	| Q V|	|	|	|	|
3+35	0.3825	2.95	| Q V	|	|	|	|
3+40	0.4037	3.07	| Q V	|	|	|	|
3+45	0.4263	3.28	| Q |V	|	|	|	|
3+50	0.4497	3.40	| Q |V	|	|	|	|



3+55	0.4746	3.61	
4+ 0	0.5002	3.72	
4+ 5	0.5273	3.93	
4+10	0.5566	4.25	
4+15	0.5881	4.58	
4+20	0.6218	4.90	
4+25	0.6578	5.23	
4+30	0.6946	5.35	
4+35	0.7329	5.56	
4+40	0.7734	5.88	
4+45	0.8161	6.20	
4+50	0.8596	6.32	
4+55	0.9046	6.53	
5+ 0	0.9518	6.85	
5+ 5	1.0068	7.99	
5+10	1.0728	9.58	
5+15	1.1471	10.80	
5+20	1.2283	11.79	
5+25	1.3190	13.17	
5+30	1.4264	15.59	
5+35	1.4892	9.12	
5+40	1.5099	3.00	
5+45	1.5164	0.94	
5+50	1.5185	0.30	
5+55	1.5224	0.57	
6+ 0	1.5266	0.61	
6+ 5	1.5280	0.21	
6+10	1.5281	0.01	

U n i t H y d r o g r a p h A n a l y s i s

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Study date 02/14/17 File: AREAB24100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

TRI-8 Builders - S/N 615

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TPM NO. 37235
PROPOSED CONDITION - ON-SITE
AREA "B"
100YR

Drainage Area = 10.33(Ac.) = 0.016 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 10.33(Ac.) = 0.016 Sq. Mi.
Length along longest watercourse = 885.00(Ft.)
Length along longest watercourse measured to centroid = 230.00(Ft.)
Length along longest watercourse = 0.168 Mi.
Length along longest watercourse measured to centroid = 0.044 Mi.
Difference in elevation = 19.00(Ft.)
Slope along watercourse = 113.3559 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.023 Hr.
Lag time = 1.36 Min.
25% of lag time = 0.34 Min.
40% of lag time = 0.54 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
10.33	1.35	13.95

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
10.33	4.30	44.42

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 1.350(In)
Area Averaged 100-Year Rainfall = 4.300(In)

Point rain (area averaged) = 4.300(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 4.300(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
10.330	32.00	0.900

Total Area Entered = 10.33(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
32.0	32.0	0.742	0.900	0.141	1.000	0.141
					Sum (F) =	0.141

Area averaged mean soil loss (F) (In/Hr) = 0.141
Minimum soil loss rate ((In/Hr)) = 0.070
(for 24 hour storm duration)

Soil low loss rate (decimal) = 0.180

U n i t H y d r o g r a p h
DESERT S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	368.780	62.586	6.516
2	0.167	737.560	34.658	3.608
3	0.250	1106.340	2.756	0.287
			Sum = 100.000 Sum=	10.411

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.034	0.250	0.006	0.03
2	0.17	0.07	0.034	0.249	0.006	0.03
3	0.25	0.07	0.034	0.248	0.006	0.03
4	0.33	0.10	0.052	0.247	0.009	0.04
5	0.42	0.10	0.052	0.246	0.009	0.04
6	0.50	0.10	0.052	0.245	0.009	0.04
7	0.58	0.10	0.052	0.244	0.009	0.04
8	0.67	0.10	0.052	0.243	0.009	0.04
9	0.75	0.10	0.052	0.242	0.009	0.04
10	0.83	0.13	0.069	0.241	0.012	0.06
11	0.92	0.13	0.069	0.240	0.012	0.06
12	1.00	0.13	0.069	0.239	0.012	0.06
13	1.08	0.10	0.052	0.238	0.009	0.04
14	1.17	0.10	0.052	0.238	0.009	0.04
15	1.25	0.10	0.052	0.237	0.009	0.04
16	1.33	0.10	0.052	0.236	0.009	0.04
17	1.42	0.10	0.052	0.235	0.009	0.04
18	1.50	0.10	0.052	0.234	0.009	0.04
19	1.58	0.10	0.052	0.233	0.009	0.04
20	1.67	0.10	0.052	0.232	0.009	0.04
21	1.75	0.10	0.052	0.231	0.009	0.04
22	1.83	0.13	0.069	0.230	0.012	0.06
23	1.92	0.13	0.069	0.229	0.012	0.06
24	2.00	0.13	0.069	0.228	0.012	0.06
25	2.08	0.13	0.069	0.227	0.012	0.06
26	2.17	0.13	0.069	0.226	0.012	0.06
27	2.25	0.13	0.069	0.225	0.012	0.06
28	2.33	0.13	0.069	0.224	0.012	0.06
29	2.42	0.13	0.069	0.224	0.012	0.06
30	2.50	0.13	0.069	0.223	0.012	0.06
31	2.58	0.17	0.086	0.222	0.015	0.07
32	2.67	0.17	0.086	0.221	0.015	0.07
33	2.75	0.17	0.086	0.220	0.015	0.07
34	2.83	0.17	0.086	0.219	0.015	0.07
35	2.92	0.17	0.086	0.218	0.015	0.07
36	3.00	0.17	0.086	0.217	0.015	0.07
37	3.08	0.17	0.086	0.216	0.015	0.07
38	3.17	0.17	0.086	0.215	0.015	0.07
39	3.25	0.17	0.086	0.215	0.015	0.07
40	3.33	0.17	0.086	0.214	0.015	0.07
41	3.42	0.17	0.086	0.213	0.015	0.07
42	3.50	0.17	0.086	0.212	0.015	0.07
43	3.58	0.17	0.086	0.211	0.015	0.07
44	3.67	0.17	0.086	0.210	0.015	0.07
45	3.75	0.17	0.086	0.209	0.015	0.07
46	3.83	0.20	0.103	0.208	0.019	0.08
47	3.92	0.20	0.103	0.207	0.019	0.08
48	4.00	0.20	0.103	0.207	0.019	0.08
49	4.08	0.20	0.103	0.206	0.019	0.08
50	4.17	0.20	0.103	0.205	0.019	0.08
51	4.25	0.20	0.103	0.204	0.019	0.08
52	4.33	0.23	0.120	0.203	0.022	0.10
53	4.42	0.23	0.120	0.202	0.022	0.10
54	4.50	0.23	0.120	0.201	0.022	0.10
55	4.58	0.23	0.120	0.200	0.022	0.10
56	4.67	0.23	0.120	0.200	0.022	0.10
57	4.75	0.23	0.120	0.199	0.022	0.10
58	4.83	0.27	0.138	0.198	0.025	0.11
59	4.92	0.27	0.138	0.197	0.025	0.11

60	5.00	0.27	0.138	0.196	0.025	0.11
61	5.08	0.20	0.103	0.195	0.019	0.08
62	5.17	0.20	0.103	0.194	0.019	0.08
63	5.25	0.20	0.103	0.194	0.019	0.08
64	5.33	0.23	0.120	0.193	0.022	0.10
65	5.42	0.23	0.120	0.192	0.022	0.10
66	5.50	0.23	0.120	0.191	0.022	0.10
67	5.58	0.27	0.138	0.190	0.025	0.11
68	5.67	0.27	0.138	0.189	0.025	0.11
69	5.75	0.27	0.138	0.189	0.025	0.11
70	5.83	0.27	0.138	0.188	0.025	0.11
71	5.92	0.27	0.138	0.187	0.025	0.11
72	6.00	0.27	0.138	0.186	0.025	0.11
73	6.08	0.30	0.155	0.185	0.028	0.13
74	6.17	0.30	0.155	0.184	0.028	0.13
75	6.25	0.30	0.155	0.184	0.028	0.13
76	6.33	0.30	0.155	0.183	0.028	0.13
77	6.42	0.30	0.155	0.182	0.028	0.13
78	6.50	0.30	0.155	0.181	0.028	0.13
79	6.58	0.33	0.172	0.180	0.031	0.14
80	6.67	0.33	0.172	0.180	0.031	0.14
81	6.75	0.33	0.172	0.179	0.031	0.14
82	6.83	0.33	0.172	0.178	0.031	0.14
83	6.92	0.33	0.172	0.177	0.031	0.14
84	7.00	0.33	0.172	0.176	0.031	0.14
85	7.08	0.33	0.172	0.176	0.031	0.14
86	7.17	0.33	0.172	0.175	0.031	0.14
87	7.25	0.33	0.172	0.174	0.031	0.14
88	7.33	0.37	0.189	0.173	---	0.02
89	7.42	0.37	0.189	0.172	---	0.02
90	7.50	0.37	0.189	0.172	---	0.02
91	7.58	0.40	0.206	0.171	---	0.04
92	7.67	0.40	0.206	0.170	---	0.04
93	7.75	0.40	0.206	0.169	---	0.04
94	7.83	0.43	0.224	0.168	---	0.06
95	7.92	0.43	0.224	0.168	---	0.06
96	8.00	0.43	0.224	0.167	---	0.06
97	8.08	0.50	0.258	0.166	---	0.09
98	8.17	0.50	0.258	0.165	---	0.09
99	8.25	0.50	0.258	0.165	---	0.09
100	8.33	0.50	0.258	0.164	---	0.09
101	8.42	0.50	0.258	0.163	---	0.10
102	8.50	0.50	0.258	0.162	---	0.10
103	8.58	0.53	0.275	0.161	---	0.11
104	8.67	0.53	0.275	0.161	---	0.11
105	8.75	0.53	0.275	0.160	---	0.12
106	8.83	0.57	0.292	0.159	---	0.13
107	8.92	0.57	0.292	0.158	---	0.13
108	9.00	0.57	0.292	0.158	---	0.13
109	9.08	0.63	0.327	0.157	---	0.17
110	9.17	0.63	0.327	0.156	---	0.17
111	9.25	0.63	0.327	0.155	---	0.17
112	9.33	0.67	0.344	0.155	---	0.19
113	9.42	0.67	0.344	0.154	---	0.19
114	9.50	0.67	0.344	0.153	---	0.19
115	9.58	0.70	0.361	0.153	---	0.21
116	9.67	0.70	0.361	0.152	---	0.21
117	9.75	0.70	0.361	0.151	---	0.21
118	9.83	0.73	0.378	0.150	---	0.23
119	9.92	0.73	0.378	0.150	---	0.23
120	10.00	0.73	0.378	0.149	---	0.23
121	10.08	0.50	0.258	0.148	---	0.11
122	10.17	0.50	0.258	0.147	---	0.11
123	10.25	0.50	0.258	0.147	---	0.11
124	10.33	0.50	0.258	0.146	---	0.11
125	10.42	0.50	0.258	0.145	---	0.11
126	10.50	0.50	0.258	0.145	---	0.11
127	10.58	0.67	0.344	0.144	---	0.20
128	10.67	0.67	0.344	0.143	---	0.20
129	10.75	0.67	0.344	0.142	---	0.20
130	10.83	0.67	0.344	0.142	---	0.20
131	10.92	0.67	0.344	0.141	---	0.20
132	11.00	0.67	0.344	0.140	---	0.20
133	11.08	0.63	0.327	0.140	---	0.19
134	11.17	0.63	0.327	0.139	---	0.19
135	11.25	0.63	0.327	0.138	---	0.19
136	11.33	0.63	0.327	0.138	---	0.19
137	11.42	0.63	0.327	0.137	---	0.19
138	11.50	0.63	0.327	0.136	---	0.19

139	11.58	0.57	0.292	0.136	---	0.16
140	11.67	0.57	0.292	0.135	---	0.16
141	11.75	0.57	0.292	0.134	---	0.16
142	11.83	0.60	0.310	0.134	---	0.18
143	11.92	0.60	0.310	0.133	---	0.18
144	12.00	0.60	0.310	0.132	---	0.18
145	12.08	0.83	0.430	0.132	---	0.30
146	12.17	0.83	0.430	0.131	---	0.30
147	12.25	0.83	0.430	0.130	---	0.30
148	12.33	0.87	0.447	0.130	---	0.32
149	12.42	0.87	0.447	0.129	---	0.32
150	12.50	0.87	0.447	0.128	---	0.32
151	12.58	0.93	0.482	0.128	---	0.35
152	12.67	0.93	0.482	0.127	---	0.35
153	12.75	0.93	0.482	0.126	---	0.36
154	12.83	0.97	0.499	0.126	---	0.37
155	12.92	0.97	0.499	0.125	---	0.37
156	13.00	0.97	0.499	0.124	---	0.37
157	13.08	1.13	0.585	0.124	---	0.46
158	13.17	1.13	0.585	0.123	---	0.46
159	13.25	1.13	0.585	0.123	---	0.46
160	13.33	1.13	0.585	0.122	---	0.46
161	13.42	1.13	0.585	0.121	---	0.46
162	13.50	1.13	0.585	0.121	---	0.46
163	13.58	0.77	0.396	0.120	---	0.28
164	13.67	0.77	0.396	0.120	---	0.28
165	13.75	0.77	0.396	0.119	---	0.28
166	13.83	0.77	0.396	0.118	---	0.28
167	13.92	0.77	0.396	0.118	---	0.28
168	14.00	0.77	0.396	0.117	---	0.28
169	14.08	0.90	0.464	0.117	---	0.35
170	14.17	0.90	0.464	0.116	---	0.35
171	14.25	0.90	0.464	0.115	---	0.35
172	14.33	0.87	0.447	0.115	---	0.33
173	14.42	0.87	0.447	0.114	---	0.33
174	14.50	0.87	0.447	0.114	---	0.33
175	14.58	0.87	0.447	0.113	---	0.33
176	14.67	0.87	0.447	0.112	---	0.33
177	14.75	0.87	0.447	0.112	---	0.34
178	14.83	0.83	0.430	0.111	---	0.32
179	14.92	0.83	0.430	0.111	---	0.32
180	15.00	0.83	0.430	0.110	---	0.32
181	15.08	0.80	0.413	0.110	---	0.30
182	15.17	0.80	0.413	0.109	---	0.30
183	15.25	0.80	0.413	0.108	---	0.30
184	15.33	0.77	0.396	0.108	---	0.29
185	15.42	0.77	0.396	0.107	---	0.29
186	15.50	0.77	0.396	0.107	---	0.29
187	15.58	0.63	0.327	0.106	---	0.22
188	15.67	0.63	0.327	0.106	---	0.22
189	15.75	0.63	0.327	0.105	---	0.22
190	15.83	0.63	0.327	0.105	---	0.22
191	15.92	0.63	0.327	0.104	---	0.22
192	16.00	0.63	0.327	0.104	---	0.22
193	16.08	0.13	0.069	0.103	0.012	0.06
194	16.17	0.13	0.069	0.102	0.012	0.06
195	16.25	0.13	0.069	0.102	0.012	0.06
196	16.33	0.13	0.069	0.101	0.012	0.06
197	16.42	0.13	0.069	0.101	0.012	0.06
198	16.50	0.13	0.069	0.100	0.012	0.06
199	16.58	0.10	0.052	0.100	0.009	0.04
200	16.67	0.10	0.052	0.099	0.009	0.04
201	16.75	0.10	0.052	0.099	0.009	0.04
202	16.83	0.10	0.052	0.098	0.009	0.04
203	16.92	0.10	0.052	0.098	0.009	0.04
204	17.00	0.10	0.052	0.097	0.009	0.04
205	17.08	0.17	0.086	0.097	0.015	0.07
206	17.17	0.17	0.086	0.096	0.015	0.07
207	17.25	0.17	0.086	0.096	0.015	0.07
208	17.33	0.17	0.086	0.095	0.015	0.07
209	17.42	0.17	0.086	0.095	0.015	0.07
210	17.50	0.17	0.086	0.094	0.015	0.07
211	17.58	0.17	0.086	0.094	0.015	0.07
212	17.67	0.17	0.086	0.094	0.015	0.07
213	17.75	0.17	0.086	0.093	0.015	0.07
214	17.83	0.13	0.069	0.093	0.012	0.06
215	17.92	0.13	0.069	0.092	0.012	0.06
216	18.00	0.13	0.069	0.092	0.012	0.06
217	18.08	0.13	0.069	0.091	0.012	0.06

218	18.17	0.13	0.069	0.091	0.012	0.06
219	18.25	0.13	0.069	0.090	0.012	0.06
220	18.33	0.13	0.069	0.090	0.012	0.06
221	18.42	0.13	0.069	0.089	0.012	0.06
222	18.50	0.13	0.069	0.089	0.012	0.06
223	18.58	0.10	0.052	0.089	0.009	0.04
224	18.67	0.10	0.052	0.088	0.009	0.04
225	18.75	0.10	0.052	0.088	0.009	0.04
226	18.83	0.07	0.034	0.087	0.006	0.03
227	18.92	0.07	0.034	0.087	0.006	0.03
228	19.00	0.07	0.034	0.087	0.006	0.03
229	19.08	0.10	0.052	0.086	0.009	0.04
230	19.17	0.10	0.052	0.086	0.009	0.04
231	19.25	0.10	0.052	0.085	0.009	0.04
232	19.33	0.13	0.069	0.085	0.012	0.06
233	19.42	0.13	0.069	0.085	0.012	0.06
234	19.50	0.13	0.069	0.084	0.012	0.06
235	19.58	0.10	0.052	0.084	0.009	0.04
236	19.67	0.10	0.052	0.083	0.009	0.04
237	19.75	0.10	0.052	0.083	0.009	0.04
238	19.83	0.07	0.034	0.083	0.006	0.03
239	19.92	0.07	0.034	0.082	0.006	0.03
240	20.00	0.07	0.034	0.082	0.006	0.03
241	20.08	0.10	0.052	0.082	0.009	0.04
242	20.17	0.10	0.052	0.081	0.009	0.04
243	20.25	0.10	0.052	0.081	0.009	0.04
244	20.33	0.10	0.052	0.080	0.009	0.04
245	20.42	0.10	0.052	0.080	0.009	0.04
246	20.50	0.10	0.052	0.080	0.009	0.04
247	20.58	0.10	0.052	0.079	0.009	0.04
248	20.67	0.10	0.052	0.079	0.009	0.04
249	20.75	0.10	0.052	0.079	0.009	0.04
250	20.83	0.07	0.034	0.078	0.006	0.03
251	20.92	0.07	0.034	0.078	0.006	0.03
252	21.00	0.07	0.034	0.078	0.006	0.03
253	21.08	0.10	0.052	0.078	0.009	0.04
254	21.17	0.10	0.052	0.077	0.009	0.04
255	21.25	0.10	0.052	0.077	0.009	0.04
256	21.33	0.07	0.034	0.077	0.006	0.03
257	21.42	0.07	0.034	0.076	0.006	0.03
258	21.50	0.07	0.034	0.076	0.006	0.03
259	21.58	0.10	0.052	0.076	0.009	0.04
260	21.67	0.10	0.052	0.075	0.009	0.04
261	21.75	0.10	0.052	0.075	0.009	0.04
262	21.83	0.07	0.034	0.075	0.006	0.03
263	21.92	0.07	0.034	0.075	0.006	0.03
264	22.00	0.07	0.034	0.074	0.006	0.03
265	22.08	0.10	0.052	0.074	0.009	0.04
266	22.17	0.10	0.052	0.074	0.009	0.04
267	22.25	0.10	0.052	0.074	0.009	0.04
268	22.33	0.07	0.034	0.073	0.006	0.03
269	22.42	0.07	0.034	0.073	0.006	0.03
270	22.50	0.07	0.034	0.073	0.006	0.03
271	22.58	0.07	0.034	0.073	0.006	0.03
272	22.67	0.07	0.034	0.073	0.006	0.03
273	22.75	0.07	0.034	0.072	0.006	0.03
274	22.83	0.07	0.034	0.072	0.006	0.03
275	22.92	0.07	0.034	0.072	0.006	0.03
276	23.00	0.07	0.034	0.072	0.006	0.03
277	23.08	0.07	0.034	0.072	0.006	0.03
278	23.17	0.07	0.034	0.072	0.006	0.03
279	23.25	0.07	0.034	0.071	0.006	0.03
280	23.33	0.07	0.034	0.071	0.006	0.03
281	23.42	0.07	0.034	0.071	0.006	0.03
282	23.50	0.07	0.034	0.071	0.006	0.03
283	23.58	0.07	0.034	0.071	0.006	0.03
284	23.67	0.07	0.034	0.071	0.006	0.03
285	23.75	0.07	0.034	0.071	0.006	0.03
286	23.83	0.07	0.034	0.071	0.006	0.03
287	23.92	0.07	0.034	0.071	0.006	0.03
288	24.00	0.07	0.034	0.070	0.006	0.03
Sum =		100.0			Sum =	34.8

Flood volume = Effective rainfall 2.90(In)
times area 10.3(Ac.)/[(In)/(Ft.)] = 2.5(Ac.Ft)
Total soil loss = 1.40(In)
Total soil loss = 1.202(Ac.Ft)
Total rainfall = 4.30(In)
Flood volume = 108897.1 Cubic Feet
Total soil loss = 52340.6 Cubic Feet

AREAB24100

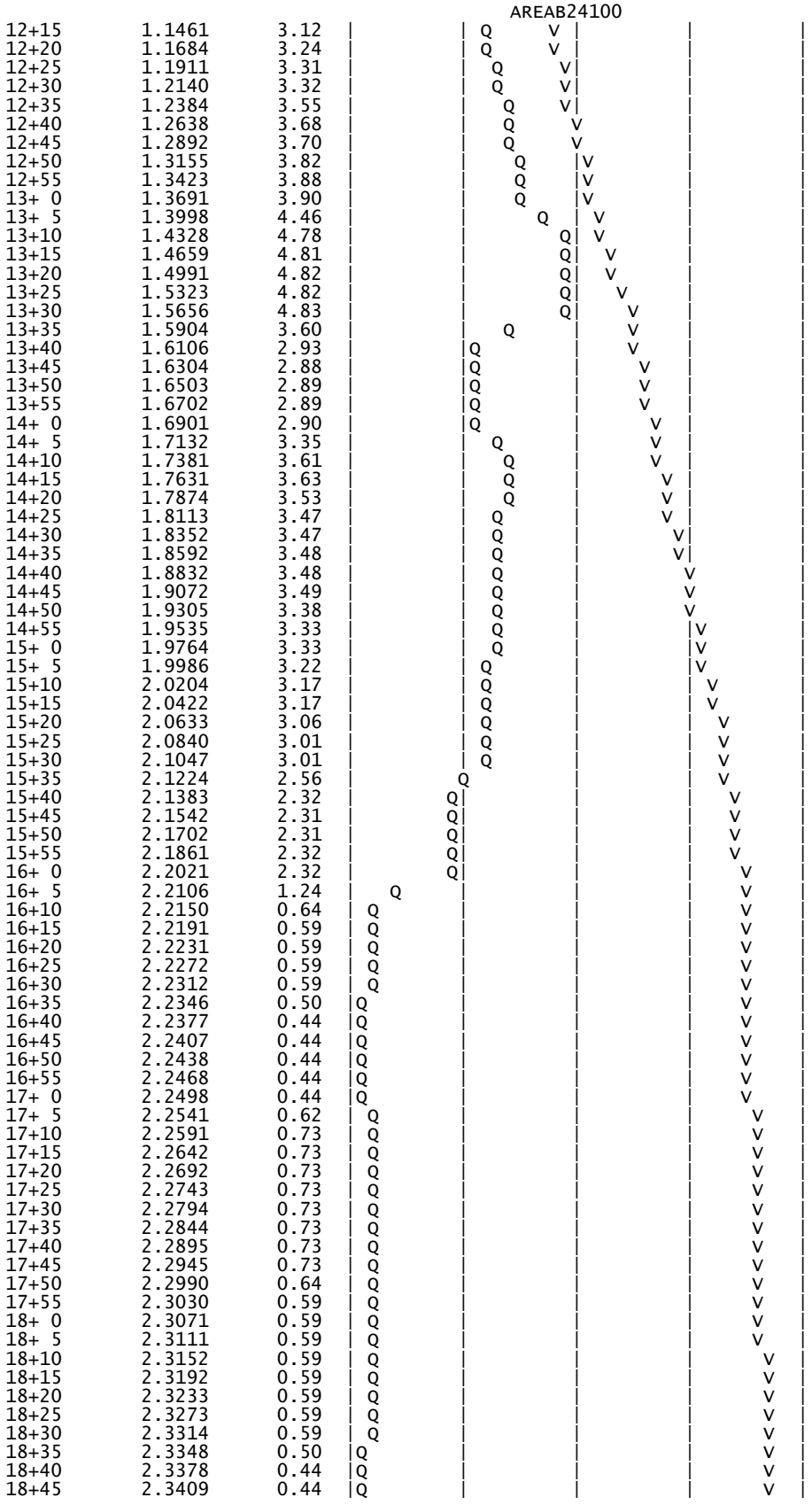
Peak flow rate of this hydrograph = 4.831(CFS)

24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0013	0.18	Q				
0+10	0.0032	0.29	VQ				
0+15	0.0053	0.29	VQ				
0+20	0.0079	0.39	VQ				
0+25	0.0109	0.44	VQ				
0+30	0.0140	0.44	VQ				
0+35	0.0170	0.44	VQ				
0+40	0.0200	0.44	VQ				
0+45	0.0231	0.44	VQ				
0+50	0.0267	0.53	V Q				
0+55	0.0308	0.58	V Q				
1+ 0	0.0348	0.59	V Q				
1+ 5	0.0382	0.50	VQ				
1+10	0.0413	0.44	VQ				
1+15	0.0443	0.44	VQ				
1+20	0.0473	0.44	VQ				
1+25	0.0504	0.44	VQ				
1+30	0.0534	0.44	VQ				
1+35	0.0565	0.44	VQ				
1+40	0.0595	0.44	VQ				
1+45	0.0625	0.44	|Q				
1+50	0.0662	0.53	|VQ				
1+55	0.0702	0.58	|VQ				
2+ 0	0.0743	0.59	|VQ				
2+ 5	0.0783	0.59	|VQ				
2+10	0.0823	0.59	|VQ				
2+15	0.0864	0.59	|VQ				
2+20	0.0904	0.59	|VQ				
2+25	0.0945	0.59	|VQ				
2+30	0.0985	0.59	|VQ				
2+35	0.1032	0.68	|VQ				
2+40	0.1082	0.73	|VQ				
2+45	0.1133	0.73	|VQ				
2+50	0.1184	0.73	|VQ				
2+55	0.1234	0.73	|VQ				
3+ 0	0.1285	0.73	| Q				
3+ 5	0.1335	0.73	| Q				
3+10	0.1386	0.73	| Q				
3+15	0.1437	0.73	| Q				
3+20	0.1487	0.73	| Q				
3+25	0.1538	0.73	| Q				
3+30	0.1588	0.73	| Q				
3+35	0.1639	0.73	| Q				
3+40	0.1690	0.73	| Q				
3+45	0.1740	0.73	| Q				
3+50	0.1797	0.83	| VQ				
3+55	0.1857	0.88	| VQ				
4+ 0	0.1918	0.88	| Q				
4+ 5	0.1979	0.88	| Q				
4+10	0.2040	0.88	| Q				
4+15	0.2100	0.88	| Q				
4+20	0.2167	0.97	| Q				
4+25	0.2238	1.02	| VQ				
4+30	0.2309	1.03	| VQ				
4+35	0.2380	1.03	| VQ				
4+40	0.2450	1.03	| VQ				
4+45	0.2521	1.03	| Q				
4+50	0.2598	1.12	| Q				
4+55	0.2679	1.17	| Q				
5+ 0	0.2760	1.18	| Q				
5+ 5	0.2828	0.99	| QV				
5+10	0.2889	0.89	| QV				
5+15	0.2950	0.88	| QV				
5+20	0.3017	0.97	| QV				
5+25	0.3088	1.02	| Q				
5+30	0.3159	1.03	| QV				
5+35	0.3236	1.12	| QV				

5+40	0.3316	1.17	QV				
5+45	0.3397	1.18	QV				
5+50	0.3478	1.18	QV				
5+55	0.3559	1.18	QV				
6+ 0	0.3640	1.18	QV				
6+ 5	0.3727	1.27	Q V				
6+10	0.3818	1.32	Q V				
6+15	0.3909	1.32	Q V				
6+20	0.4000	1.32	Q V				
6+25	0.4091	1.32	Q V				
6+30	0.4182	1.32	Q V				
6+35	0.4280	1.41	Q V				
6+40	0.4381	1.47	Q V				
6+45	0.4482	1.47	Q V				
6+50	0.4583	1.47	Q V				
6+55	0.4684	1.47	Q V				
7+ 0	0.4785	1.47	Q V				
7+ 5	0.4887	1.47	Q V				
7+10	0.4988	1.47	Q V				
7+15	0.5089	1.47	Q V				
7+20	0.5134	0.65	Q V				
7+25	0.5148	0.21	Q V				
7+30	0.5161	0.18	Q V				
7+35	0.5182	0.30	Q V				
7+40	0.5207	0.37	Q V				
7+45	0.5234	0.38	Q V				
7+50	0.5268	0.50	Q V				
7+55	0.5308	0.57	Q V				
8+ 0	0.5348	0.59	Q V				
8+ 5	0.5405	0.82	Q V				
8+10	0.5470	0.95	Q V				
8+15	0.5537	0.97	Q V				
8+20	0.5605	0.98	Q V				
8+25	0.5673	0.99	Q V				
8+30	0.5741	0.99	Q V				
8+35	0.5818	1.11	Q V				
8+40	0.5899	1.18	Q V				
8+45	0.5982	1.20	Q V				
8+50	0.6073	1.32	Q V				
8+55	0.6168	1.39	Q V				
9+ 0	0.6264	1.40	Q V				
9+ 5	0.6377	1.63	Q V				
9+10	0.6498	1.76	Q V				
9+15	0.6621	1.78	Q V				
9+20	0.6752	1.90	Q V				
9+25	0.6888	1.97	Q V				
9+30	0.7024	1.98	Q V				
9+35	0.7169	2.10	Q V				
9+40	0.7319	2.17	Q V				
9+45	0.7469	2.19	Q V				
9+50	0.7628	2.31	Q V				
9+55	0.7792	2.38	Q V				
10+ 0	0.7956	2.39	Q V				
10+ 5	0.8067	1.61	Q V				
10+10	0.8149	1.18	Q V				
10+15	0.8228	1.16	Q V				
10+20	0.8308	1.16	Q V				
10+25	0.8389	1.17	Q V				
10+30	0.8470	1.18	Q V				
10+35	0.8590	1.75	Q V				
10+40	0.8733	2.06	Q V				
10+45	0.8877	2.10	Q V				
10+50	0.9022	2.10	Q V				
10+55	0.9167	2.11	Q V				
11+ 0	0.9313	2.12	Q V				
11+ 5	0.9452	2.01	Q V				
11+10	0.9587	1.96	Q V				
11+15	0.9722	1.96	Q V				
11+20	0.9857	1.97	Q V				
11+25	0.9993	1.97	Q V				
11+30	1.0129	1.98	Q V				
11+35	1.0251	1.76	Q V				
11+40	1.0364	1.65	Q V				
11+45	1.0478	1.64	Q V				
11+50	1.0599	1.76	Q V				
11+55	1.0725	1.83	Q V				
12+ 0	1.0852	1.84	Q V				
12+ 5	1.1034	2.64	Q V				
12+10	1.1246	3.08	Q V				



12+15	1.1461	3.12	
12+20	1.1684	3.24	
12+25	1.1911	3.31	
12+30	1.2140	3.32	
12+35	1.2384	3.55	
12+40	1.2638	3.68	
12+45	1.2892	3.70	
12+50	1.3155	3.82	
12+55	1.3423	3.88	
13+ 0	1.3691	3.90	
13+ 5	1.3998	4.46	
13+10	1.4328	4.78	
13+15	1.4659	4.81	
13+20	1.4991	4.82	
13+25	1.5323	4.82	
13+30	1.5656	4.83	
13+35	1.5904	3.60	
13+40	1.6106	2.93	
13+45	1.6304	2.88	
13+50	1.6503	2.89	
13+55	1.6702	2.89	
14+ 0	1.6901	2.90	
14+ 5	1.7132	3.35	
14+10	1.7381	3.61	
14+15	1.7631	3.63	
14+20	1.7874	3.53	
14+25	1.8113	3.47	
14+30	1.8352	3.47	
14+35	1.8592	3.48	
14+40	1.8832	3.48	
14+45	1.9072	3.49	
14+50	1.9305	3.38	
14+55	1.9535	3.33	
15+ 0	1.9764	3.33	
15+ 5	1.9986	3.22	
15+10	2.0204	3.17	
15+15	2.0422	3.17	
15+20	2.0633	3.06	
15+25	2.0840	3.01	
15+30	2.1047	3.01	
15+35	2.1224	2.56	
15+40	2.1383	2.32	
15+45	2.1542	2.31	
15+50	2.1702	2.31	
15+55	2.1861	2.32	
16+ 0	2.2021	2.32	
16+ 5	2.2106	1.24	
16+10	2.2150	0.64	
16+15	2.2191	0.59	
16+20	2.2231	0.59	
16+25	2.2272	0.59	
16+30	2.2312	0.59	
16+35	2.2346	0.50	
16+40	2.2377	0.44	
16+45	2.2407	0.44	
16+50	2.2438	0.44	
16+55	2.2468	0.44	
17+ 0	2.2498	0.44	
17+ 5	2.2541	0.62	
17+10	2.2591	0.73	
17+15	2.2642	0.73	
17+20	2.2692	0.73	
17+25	2.2743	0.73	
17+30	2.2794	0.73	
17+35	2.2844	0.73	
17+40	2.2895	0.73	
17+45	2.2945	0.73	
17+50	2.2990	0.64	
17+55	2.3030	0.59	
18+ 0	2.3071	0.59	
18+ 5	2.3111	0.59	
18+10	2.3152	0.59	
18+15	2.3192	0.59	
18+20	2.3233	0.59	
18+25	2.3273	0.59	
18+30	2.3314	0.59	
18+35	2.3348	0.50	
18+40	2.3378	0.44	
18+45	2.3409	0.44	

18+50	2.3433	0.35	Q				V
18+55	2.3453	0.30	Q				V
19+ 0	2.3474	0.29	Q				V
19+ 5	2.3500	0.39	Q				V
19+10	2.3530	0.44	Q				V
19+15	2.3561	0.44	Q				V
19+20	2.3597	0.53	Q				V
19+25	2.3637	0.58	Q				V
19+30	2.3678	0.59	Q				V
19+35	2.3712	0.50	Q				V
19+40	2.3743	0.44	Q				V
19+45	2.3773	0.44	Q				V
19+50	2.3797	0.35	Q				V
19+55	2.3818	0.30	Q				V
20+ 0	2.3838	0.29	Q				V
20+ 5	2.3864	0.39	Q				V
20+10	2.3894	0.44	Q				V
20+15	2.3925	0.44	Q				V
20+20	2.3955	0.44	Q				V
20+25	2.3986	0.44	Q				V
20+30	2.4016	0.44	Q				V
20+35	2.4046	0.44	Q				V
20+40	2.4077	0.44	Q				V
20+45	2.4107	0.44	Q				V
20+50	2.4131	0.35	Q				V
20+55	2.4151	0.30	Q				V
21+ 0	2.4172	0.29	Q				V
21+ 5	2.4198	0.39	Q				V
21+10	2.4228	0.44	Q				V
21+15	2.4259	0.44	Q				V
21+20	2.4283	0.35	Q				V
21+25	2.4303	0.30	Q				V
21+30	2.4323	0.29	Q				V
21+35	2.4350	0.39	Q				V
21+40	2.4380	0.44	Q				V
21+45	2.4410	0.44	Q				V
21+50	2.4434	0.35	Q				V
21+55	2.4455	0.30	Q				V
22+ 0	2.4475	0.29	Q				V
22+ 5	2.4502	0.39	Q				V
22+10	2.4532	0.44	Q				V
22+15	2.4562	0.44	Q				V
22+20	2.4586	0.35	Q				V
22+25	2.4607	0.30	Q				V
22+30	2.4627	0.29	Q				V
22+35	2.4647	0.29	Q				V
22+40	2.4667	0.29	Q				V
22+45	2.4688	0.29	Q				V
22+50	2.4708	0.29	Q				V
22+55	2.4728	0.29	Q				V
23+ 0	2.4748	0.29	Q				V
23+ 5	2.4769	0.29	Q				V
23+10	2.4789	0.29	Q				V
23+15	2.4809	0.29	Q				V
23+20	2.4829	0.29	Q				V
23+25	2.4850	0.29	Q				V
23+30	2.4870	0.29	Q				V
23+35	2.4890	0.29	Q				V
23+40	2.4910	0.29	Q				V
23+45	2.4930	0.29	Q				V
23+50	2.4951	0.29	Q				V
23+55	2.4971	0.29	Q				V
24+ 0	2.4991	0.29	Q				V
24+ 5	2.4999	0.11	Q				V
24+10	2.4999	0.01	Q				V

U n i t H y d r o g r a p h A n a l y s i s

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

TRI-8 Builders - S/N 615

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TPM NO. 37235
PROPOSED CONDITION - ON-SITE
AREA "C"
100YR

Drainage Area = 12.62(Ac.) = 0.020 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 12.62(Ac.) = 0.020 Sq. Mi.
Length along longest watercourse = 1725.00(Ft.)
Length along longest watercourse measured to centroid = 620.00(Ft.)
Length along longest watercourse = 0.327 Mi.
Length along longest watercourse measured to centroid = 0.117 Mi.
Difference in elevation = 25.90(Ft.)
Slope along watercourse = 79.2765 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.045 Hr.
Lag time = 2.73 Min.
25% of lag time = 0.68 Min.
40% of lag time = 1.09 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
12.62	0.55	6.94

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
12.62	1.60	20.19

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.550(In)
Area Averaged 100-Year Rainfall = 1.600(In)

Point rain (area averaged) = 1.600(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 1.600(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
12.620	32.00	0.900

Total Area Entered = 12.62(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
32.0	32.0	0.742	0.900	0.141	1.000	0.141
					Sum (F) =	0.141

Area averaged mean soil loss (F) (In/Hr) = 0.141
Minimum soil loss rate ((In/Hr)) = 0.070
(for 24 hour storm duration)

Soil low loss rate (decimal) = 0.180

Slope of intensity-duration curve for a 1 hour storm =0.5800

U n i t H y d r o g r a p h
DESERT S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	183.428	39.068	4.969
2	0.167	366.857	46.723	5.943
3	0.250	550.285	9.795	1.246
4	0.333	733.714	3.213	0.409
5	0.417	917.142	1.200	0.153
		Sum = 100.000	Sum=	12.719

Unit Time	Pattern	Storm Rain	Loss rate(In./Hr)		Effective
(Hr.)	Percent	(In/Hr)	Max	Low	(In/Hr)
1 0.08	3.60	0.691	0.141	---	0.55
2 0.17	4.20	0.806	0.141	---	0.67
3 0.25	4.40	0.845	0.141	---	0.70
4 0.33	4.60	0.883	0.141	---	0.74
5 0.42	5.00	0.960	0.141	---	0.82
6 0.50	5.60	1.075	0.141	---	0.93
7 0.58	6.40	1.229	0.141	---	1.09
8 0.67	8.10	1.555	0.141	---	1.41
9 0.75	13.10	2.515	0.141	---	2.37
10 0.83	34.50	6.623	0.141	---	6.48
11 0.92	6.70	1.286	0.141	---	1.15
12 1.00	3.80	0.730	0.141	---	0.59
Sum =	100.0			Sum =	17.5

Flood volume = Effective rainfall 1.46(In)
times area 12.6(Ac.)/[(In)/(Ft.)] = 1.5(Ac.Ft)
Total soil loss = 0.14(In)
Total soil loss = 0.148(Ac.Ft)
Total rainfall = 1.60(In)
Flood volume = 66830.2 Cubic Feet
Total soil loss = 6458.4 Cubic Feet

Peak flow rate of this hydrograph = 48.691(CFS)

1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 12.5 25.0 37.5 50.0
0+ 5	0.0188	2.74	V Q
0+10	0.0641	6.58	|V Q
0+15	0.1202	8.14	| V Q
0+20	0.1817	8.93	| V Q
0+25	0.2486	9.72	| VQ
0+30	0.3232	10.83	| Q
0+35	0.4085	12.39	| QV
0+40	0.5126	15.11	| QV
0+45	0.6646	22.07	| Q
0+50	0.9999	48.69	| V Q
0+55	1.3301	47.94	| V Q
1+ 0	1.4609	19.00	| Q V
1+ 5	1.5156	7.94	| Q V
1+10	1.5307	2.19	|Q V
1+15	1.5336	0.42	Q V
1+20	1.5342	0.09	Q V

U n i t H y d r o g r a p h A n a l y s i s

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

TRI-8 Builders - S/N 615

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TPM NO. 37235
PROPOSED CONDITION - ON-SITE
AREA "C"
100YR

Drainage Area = 12.62(Ac.) = 0.020 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 12.62(Ac.) = 0.020 Sq. Mi.
Length along longest watercourse = 1725.00(Ft.)
Length along longest watercourse measured to centroid = 620.00(Ft.)
Length along longest watercourse = 0.327 Mi.
Length along longest watercourse measured to centroid = 0.117 Mi.
Difference in elevation = 25.90(Ft.)
Slope along watercourse = 79.2765 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.045 Hr.
Lag time = 2.73 Min.
25% of lag time = 0.68 Min.
40% of lag time = 1.09 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
12.62	0.74	9.34

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
12.62	2.23	28.14

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.740(In)
Area Averaged 100-Year Rainfall = 2.230(In)

Point rain (area averaged) = 2.230(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 2.230(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
12.620	32.00	0.900

Total Area Entered = 12.62(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
32.0	32.0	0.742	0.900	0.141	1.000	0.141
					Sum (F) =	0.141

Area averaged mean soil loss (F) (In/Hr) = 0.141
Minimum soil loss rate ((In/Hr)) = 0.070
(for 24 hour storm duration)

Soil low loss rate (decimal) = 0.180

U n i t H y d r o g r a p h
DESERT S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	183.428	39.068	4.969
2	0.167	366.857	46.723	5.943
3	0.250	550.285	9.795	1.246
4	0.333	733.714	3.213	0.409
5	0.417	917.142	1.200	0.153
		Sum = 100.000	Sum=	12.719

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.348	0.141	---	0.21
2	0.17	1.30	0.348	0.141	---	0.21
3	0.25	1.10	0.294	0.141	---	0.15
4	0.33	1.50	0.401	0.141	---	0.26
5	0.42	1.50	0.401	0.141	---	0.26
6	0.50	1.80	0.482	0.141	---	0.34
7	0.58	1.50	0.401	0.141	---	0.26
8	0.67	1.80	0.482	0.141	---	0.34
9	0.75	1.80	0.482	0.141	---	0.34
10	0.83	1.50	0.401	0.141	---	0.26
11	0.92	1.60	0.428	0.141	---	0.29
12	1.00	1.80	0.482	0.141	---	0.34
13	1.08	2.20	0.589	0.141	---	0.45
14	1.17	2.20	0.589	0.141	---	0.45
15	1.25	2.20	0.589	0.141	---	0.45
16	1.33	2.00	0.535	0.141	---	0.39
17	1.42	2.60	0.696	0.141	---	0.55
18	1.50	2.70	0.722	0.141	---	0.58
19	1.58	2.40	0.642	0.141	---	0.50
20	1.67	2.70	0.722	0.141	---	0.58
21	1.75	3.30	0.883	0.141	---	0.74
22	1.83	3.10	0.830	0.141	---	0.69
23	1.92	2.90	0.776	0.141	---	0.64
24	2.00	3.00	0.803	0.141	---	0.66
25	2.08	3.10	0.830	0.141	---	0.69
26	2.17	4.20	1.124	0.141	---	0.98
27	2.25	5.00	1.338	0.141	---	1.20
28	2.33	3.50	0.937	0.141	---	0.80
29	2.42	6.80	1.820	0.141	---	1.68
30	2.50	7.30	1.953	0.141	---	1.81
31	2.58	8.20	2.194	0.141	---	2.05
32	2.67	5.90	1.579	0.141	---	1.44
33	2.75	2.00	0.535	0.141	---	0.39
34	2.83	1.80	0.482	0.141	---	0.34
35	2.92	1.80	0.482	0.141	---	0.34
36	3.00	0.60	0.161	0.141	---	0.02
Sum =		100.0			Sum =	21.7

Flood volume = Effective rainfall 1.81(In)
times area 12.6(Ac.)/[(In)/(Ft.)] = 1.9(Ac.Ft)
Total soil loss = 0.42(In)
Total soil loss = 0.445(Ac.Ft)
Total rainfall = 2.23(In)
Flood volume = 82776.9 Cubic Feet
Total soil loss = 19375.1 Cubic Feet

Peak flow rate of this hydrograph = 23.584(CFS)

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	7.5	15.0	22.5	30.0
0+ 5	0.0071	1.03	VQ	|	|	|	|

AREAC3100

0+10	0.0226	2.26	V Q | | | |
0+15	0.0381	2.25	V Q | | | |
0+20	0.0557	2.55	|V Q | | | |
0+25	0.0774	3.15	|V Q | | | |
0+30	0.1026	3.66	| V Q | | | |
0+35	0.1286	3.77	| V Q | | | |
0+40	0.1549	3.81	| V Q | | | |
0+45	0.1839	4.22	| V Q | | | |
0+50	0.2108	3.90	| VQ | | | |
0+55	0.2355	3.58	| Q | | | |
1+ 0	0.2624	3.92	| Q | | | |
1+ 5	0.2953	4.77	| Q | | | |
1+10	0.3329	5.47	| Q | | | |
1+15	0.3717	5.63	| Q | | | |
1+20	0.4090	5.41	| QV | | | |
1+25	0.4497	5.91	| Q V| | | |
1+30	0.4975	6.93	| QV | | |
1+35	0.5448	6.87	| Q|V | | |
1+40	0.5922	6.88	| Q| V | | |
1+45	0.6479	8.09	| Q V | | |
1+50	0.7089	8.85	| |Q V | | |
1+55	0.7674	8.49	| |Q V | | |
2+ 0	0.8246	8.32	| |Q V | | |
2+ 5	0.8835	8.54	| |Q V | | |
2+10	0.9535	10.17	| | Q V | |
2+15	1.0432	13.02	| | Q |V | |
2+20	1.1305	12.68	| | Q | V | |
2+25	1.2343	15.07	| | Q V | |
2+30	1.3764	20.62	| | | QV | |
2+35	1.5388	23.58	| | | |QV |
2+40	1.6932	22.42	| | | Q| V |
2+45	1.7901	14.06	| | Q | | V |
2+50	1.8379	6.95	| Q| | | | V |
2+55	1.8731	5.11	| Q | | | | V|
3+ 0	1.8933	2.93	| Q | | | | V|
3+ 5	1.8984	0.74	Q | | | | V|
3+10	1.8999	0.22	Q | | | | V|
3+15	1.9003	0.06	Q | | | | V|
3+20	1.9003	0.00	Q | | | | V

U n i t H y d r o g r a p h A n a l y s i s

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

TRI-8 Builders - S/N 615

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TPM NO. 37235
PROPOSED CONDITION - ON-SITE
AREA "C"
100YR

Drainage Area = 12.62(Ac.) = 0.020 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 12.62(Ac.) = 0.020 Sq. Mi.
Length along longest watercourse = 1725.00(Ft.)
Length along longest watercourse measured to centroid = 620.00(Ft.)
Length along longest watercourse = 0.327 Mi.
Length along longest watercourse measured to centroid = 0.117 Mi.
Difference in elevation = 25.90(Ft.)
Slope along watercourse = 79.2765 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.045 Hr.
Lag time = 2.73 Min.
25% of lag time = 0.68 Min.
40% of lag time = 1.09 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
12.62	0.90	11.36

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
12.62	2.60	32.81

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.900(In)
Area Averaged 100-Year Rainfall = 2.600(In)

Point rain (area averaged) = 2.600(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 2.600(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
12.620	32.00	0.900

Total Area Entered = 12.62(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
32.0	32.0	0.742	0.900	0.141	1.000	0.141
					Sum (F) =	0.141

Area averaged mean soil loss (F) (In/Hr) = 0.141
Minimum soil loss rate ((In/Hr)) = 0.070
(for 24 hour storm duration)

Soil low loss rate (decimal) = 0.180

U n i t H y d r o g r a p h
DESERT S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	183.428	39.068	4.969
2	0.167	366.857	46.723	5.943
3	0.250	550.285	9.795	1.246
4	0.333	733.714	3.213	0.409
5	0.417	917.142	1.200	0.153
			Sum = 100.000	Sum= 12.719

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.156	0.141	---	0.02
2	0.17	0.60	0.187	0.141	---	0.05
3	0.25	0.60	0.187	0.141	---	0.05
4	0.33	0.60	0.187	0.141	---	0.05
5	0.42	0.60	0.187	0.141	---	0.05
6	0.50	0.70	0.218	0.141	---	0.08
7	0.58	0.70	0.218	0.141	---	0.08
8	0.67	0.70	0.218	0.141	---	0.08
9	0.75	0.70	0.218	0.141	---	0.08
10	0.83	0.70	0.218	0.141	---	0.08
11	0.92	0.70	0.218	0.141	---	0.08
12	1.00	0.80	0.250	0.141	---	0.11
13	1.08	0.80	0.250	0.141	---	0.11
14	1.17	0.80	0.250	0.141	---	0.11
15	1.25	0.80	0.250	0.141	---	0.11
16	1.33	0.80	0.250	0.141	---	0.11
17	1.42	0.80	0.250	0.141	---	0.11
18	1.50	0.80	0.250	0.141	---	0.11
19	1.58	0.80	0.250	0.141	---	0.11
20	1.67	0.80	0.250	0.141	---	0.11
21	1.75	0.80	0.250	0.141	---	0.11
22	1.83	0.80	0.250	0.141	---	0.11
23	1.92	0.80	0.250	0.141	---	0.11
24	2.00	0.90	0.281	0.141	---	0.14
25	2.08	0.80	0.250	0.141	---	0.11
26	2.17	0.90	0.281	0.141	---	0.14
27	2.25	0.90	0.281	0.141	---	0.14
28	2.33	0.90	0.281	0.141	---	0.14
29	2.42	0.90	0.281	0.141	---	0.14
30	2.50	0.90	0.281	0.141	---	0.14
31	2.58	0.90	0.281	0.141	---	0.14
32	2.67	0.90	0.281	0.141	---	0.14
33	2.75	1.00	0.312	0.141	---	0.17
34	2.83	1.00	0.312	0.141	---	0.17
35	2.92	1.00	0.312	0.141	---	0.17
36	3.00	1.00	0.312	0.141	---	0.17
37	3.08	1.00	0.312	0.141	---	0.17
38	3.17	1.10	0.343	0.141	---	0.20
39	3.25	1.10	0.343	0.141	---	0.20
40	3.33	1.10	0.343	0.141	---	0.20
41	3.42	1.20	0.374	0.141	---	0.23
42	3.50	1.30	0.406	0.141	---	0.26
43	3.58	1.40	0.437	0.141	---	0.30
44	3.67	1.40	0.437	0.141	---	0.30
45	3.75	1.50	0.468	0.141	---	0.33
46	3.83	1.50	0.468	0.141	---	0.33
47	3.92	1.60	0.499	0.141	---	0.36
48	4.00	1.60	0.499	0.141	---	0.36
49	4.08	1.70	0.530	0.141	---	0.39
50	4.17	1.80	0.562	0.141	---	0.42
51	4.25	1.90	0.593	0.141	---	0.45
52	4.33	2.00	0.624	0.141	---	0.48
53	4.42	2.10	0.655	0.141	---	0.51
54	4.50	2.10	0.655	0.141	---	0.51
55	4.58	2.20	0.686	0.141	---	0.55
56	4.67	2.30	0.718	0.141	---	0.58
57	4.75	2.40	0.749	0.141	---	0.61

AREAC6100

58	4.83	2.40	0.749	0.141	---	0.61
59	4.92	2.50	0.780	0.141	---	0.64
60	5.00	2.60	0.811	0.141	---	0.67
61	5.08	3.10	0.967	0.141	---	0.83
62	5.17	3.60	1.123	0.141	---	0.98
63	5.25	3.90	1.217	0.141	---	1.08
64	5.33	4.20	1.310	0.141	---	1.17
65	5.42	4.70	1.466	0.141	---	1.33
66	5.50	5.60	1.747	0.141	---	1.61
67	5.58	1.90	0.593	0.141	---	0.45
68	5.67	0.90	0.281	0.141	---	0.14
69	5.75	0.60	0.187	0.141	---	0.05
70	5.83	0.50	0.156	0.141	---	0.02
71	5.92	0.30	0.094	0.141	0.017	0.08
72	6.00	0.20	0.062	0.141	0.011	0.05
Sum =		100.0			Sum =	21.3

Flood volume = Effective rainfall 1.78(In)
times area 12.6(Ac.)/[(In)/(Ft.)] = 1.9(Ac.Ft)
Total soil loss = 0.82(In)
Total soil loss = 0.867(Ac.Ft)
Total rainfall = 2.60(In)
Flood volume = 81321.3 Cubic Feet
Total soil loss = 37781.1 Cubic Feet

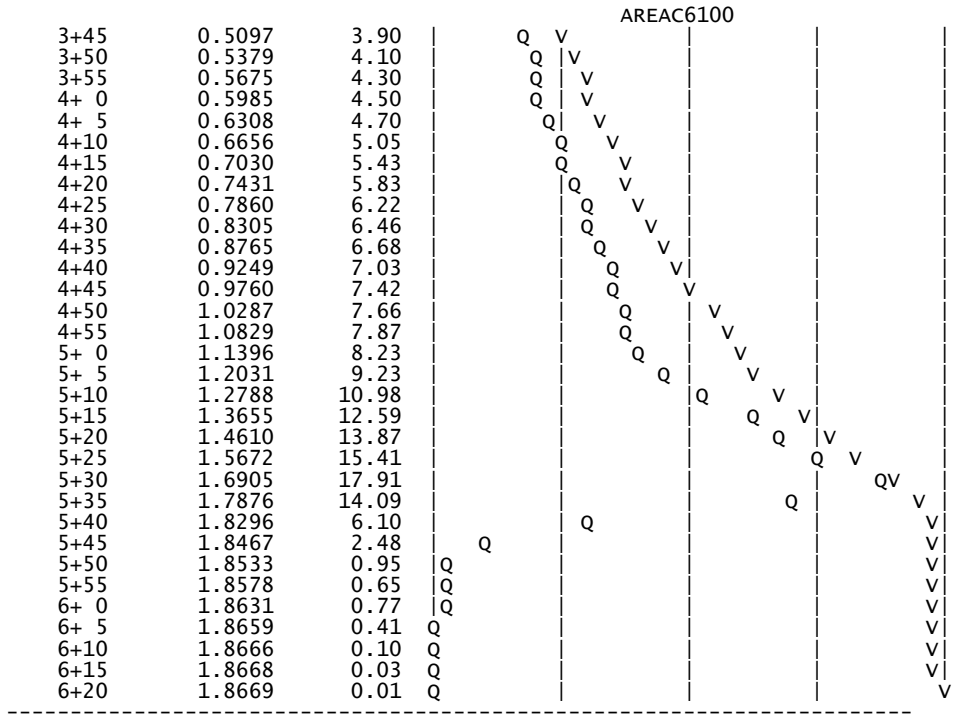
Peak flow rate of this hydrograph = 17.912(CFS)

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6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 5.0 10.0 15.0 20.0
0+ 5	0.0005	0.07	Q
0+10	0.0027	0.32	Q
0+15	0.0063	0.52	VQ
0+20	0.0102	0.57	VQ
0+25	0.0142	0.58	VQ
0+30	0.0194	0.74	VQ
0+35	0.0258	0.93	VQ
0+40	0.0324	0.97	VQ
0+45	0.0392	0.98	VQ
0+50	0.0460	0.99	VQ
0+55	0.0527	0.99	|Q
1+ 0	0.0606	1.14	|VQ
1+ 5	0.0697	1.33	|VQ
1+10	0.0791	1.36	|VQ
1+15	0.0886	1.38	|VQ
1+20	0.0981	1.38	| Q
1+25	0.1076	1.38	| Q
1+30	0.1172	1.38	| Q
1+35	0.1267	1.38	| Q
1+40	0.1362	1.38	| Q
1+45	0.1457	1.38	| QV
1+50	0.1552	1.38	| QV
1+55	0.1648	1.38	| QV
2+ 0	0.1753	1.54	| Q
2+ 5	0.1861	1.57	| Q
2+10	0.1970	1.58	| QV
2+15	0.2089	1.74	| QV
2+20	0.2211	1.77	| QV
2+25	0.2333	1.77	| QV
2+30	0.2456	1.78	| Q V
2+35	0.2578	1.78	| Q V
2+40	0.2701	1.78	| Q V
2+45	0.2834	1.93	| Q V
2+50	0.2980	2.12	| Q V
2+55	0.3129	2.16	| Q V
3+ 0	0.3278	2.17	| Q V
3+ 5	0.3428	2.18	| Q V
3+10	0.3589	2.33	| Q V
3+15	0.3762	2.52	| Q V
3+20	0.3938	2.56	| Q V
3+25	0.4126	2.72	| Q V
3+30	0.4337	3.07	| Q V|
3+35	0.4574	3.45	| Q V|
3+40	0.4828	3.69	| Q V



3+45	0.5097	3.90	
3+50	0.5379	4.10	
3+55	0.5675	4.30	
4+ 0	0.5985	4.50	
4+ 5	0.6308	4.70	
4+10	0.6656	5.05	
4+15	0.7030	5.43	
4+20	0.7431	5.83	
4+25	0.7860	6.22	
4+30	0.8305	6.46	
4+35	0.8765	6.68	
4+40	0.9249	7.03	
4+45	0.9760	7.42	
4+50	1.0287	7.66	
4+55	1.0829	7.87	
5+ 0	1.1396	8.23	
5+ 5	1.2031	9.23	
5+10	1.2788	10.98	
5+15	1.3655	12.59	
5+20	1.4610	13.87	
5+25	1.5672	15.41	
5+30	1.6905	17.91	
5+35	1.7876	14.09	
5+40	1.8296	6.10	
5+45	1.8467	2.48	
5+50	1.8533	0.95	
5+55	1.8578	0.65	
6+ 0	1.8631	0.77	
6+ 5	1.8659	0.41	
6+10	1.8666	0.10	
6+15	1.8668	0.03	
6+20	1.8669	0.01	

U n i t H y d r o g r a p h A n a l y s i s

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Study date 02/14/17 File: AREAC24100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

TRI-8 Builders - S/N 615

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TPM NO. 37235
PROPOSED CONDITION - ON-SITE
AREA "C"
100YR

Drainage Area = 12.62(Ac.) = 0.020 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 12.62(Ac.) = 0.020 Sq. Mi.
Length along longest watercourse = 1725.00(Ft.)
Length along longest watercourse measured to centroid = 620.00(Ft.)
Length along longest watercourse = 0.327 Mi.
Length along longest watercourse measured to centroid = 0.117 Mi.
Difference in elevation = 25.90(Ft.)
Slope along watercourse = 79.2765 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.045 Hr.
Lag time = 2.73 Min.
25% of lag time = 0.68 Min.
40% of lag time = 1.09 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
12.62	1.35	17.04

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
12.62	4.30	54.27

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 1.350(In)
Area Averaged 100-Year Rainfall = 4.300(In)

Point rain (area averaged) = 4.300(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 4.300(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
12.620	32.00	0.900

Total Area Entered = 12.62(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
32.0	32.0	0.742	0.900	0.141	1.000	0.141
					Sum (F) =	0.141

Area averaged mean soil loss (F) (In/Hr) = 0.141
Minimum soil loss rate ((In/Hr)) = 0.070
(for 24 hour storm duration)

Soil low loss rate (decimal) = 0.180

U n i t H y d r o g r a p h
DESERT S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	183.428	39.068	4.969
2	0.167	366.857	46.723	5.943
3	0.250	550.285	9.795	1.246
4	0.333	733.714	3.213	0.409
5	0.417	917.142	1.200	0.153
			Sum = 100.000	Sum= 12.719

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.034	0.250	0.006	0.03
2	0.17	0.07	0.034	0.249	0.006	0.03
3	0.25	0.07	0.034	0.248	0.006	0.03
4	0.33	0.10	0.052	0.247	0.009	0.04
5	0.42	0.10	0.052	0.246	0.009	0.04
6	0.50	0.10	0.052	0.245	0.009	0.04
7	0.58	0.10	0.052	0.244	0.009	0.04
8	0.67	0.10	0.052	0.243	0.009	0.04
9	0.75	0.10	0.052	0.242	0.009	0.04
10	0.83	0.13	0.069	0.241	0.012	0.06
11	0.92	0.13	0.069	0.240	0.012	0.06
12	1.00	0.13	0.069	0.239	0.012	0.06
13	1.08	0.10	0.052	0.238	0.009	0.04
14	1.17	0.10	0.052	0.238	0.009	0.04
15	1.25	0.10	0.052	0.237	0.009	0.04
16	1.33	0.10	0.052	0.236	0.009	0.04
17	1.42	0.10	0.052	0.235	0.009	0.04
18	1.50	0.10	0.052	0.234	0.009	0.04
19	1.58	0.10	0.052	0.233	0.009	0.04
20	1.67	0.10	0.052	0.232	0.009	0.04
21	1.75	0.10	0.052	0.231	0.009	0.04
22	1.83	0.13	0.069	0.230	0.012	0.06
23	1.92	0.13	0.069	0.229	0.012	0.06
24	2.00	0.13	0.069	0.228	0.012	0.06
25	2.08	0.13	0.069	0.227	0.012	0.06
26	2.17	0.13	0.069	0.226	0.012	0.06
27	2.25	0.13	0.069	0.225	0.012	0.06
28	2.33	0.13	0.069	0.224	0.012	0.06
29	2.42	0.13	0.069	0.224	0.012	0.06
30	2.50	0.13	0.069	0.223	0.012	0.06
31	2.58	0.17	0.086	0.222	0.015	0.07
32	2.67	0.17	0.086	0.221	0.015	0.07
33	2.75	0.17	0.086	0.220	0.015	0.07
34	2.83	0.17	0.086	0.219	0.015	0.07
35	2.92	0.17	0.086	0.218	0.015	0.07
36	3.00	0.17	0.086	0.217	0.015	0.07
37	3.08	0.17	0.086	0.216	0.015	0.07
38	3.17	0.17	0.086	0.215	0.015	0.07
39	3.25	0.17	0.086	0.215	0.015	0.07
40	3.33	0.17	0.086	0.214	0.015	0.07
41	3.42	0.17	0.086	0.213	0.015	0.07
42	3.50	0.17	0.086	0.212	0.015	0.07
43	3.58	0.17	0.086	0.211	0.015	0.07
44	3.67	0.17	0.086	0.210	0.015	0.07
45	3.75	0.17	0.086	0.209	0.015	0.07
46	3.83	0.20	0.103	0.208	0.019	0.08
47	3.92	0.20	0.103	0.207	0.019	0.08
48	4.00	0.20	0.103	0.207	0.019	0.08
49	4.08	0.20	0.103	0.206	0.019	0.08
50	4.17	0.20	0.103	0.205	0.019	0.08
51	4.25	0.20	0.103	0.204	0.019	0.08
52	4.33	0.23	0.120	0.203	0.022	0.10
53	4.42	0.23	0.120	0.202	0.022	0.10
54	4.50	0.23	0.120	0.201	0.022	0.10
55	4.58	0.23	0.120	0.200	0.022	0.10
56	4.67	0.23	0.120	0.200	0.022	0.10
57	4.75	0.23	0.120	0.199	0.022	0.10

58	4.83	0.27	0.138	0.198	0.025	0.11
59	4.92	0.27	0.138	0.197	0.025	0.11
60	5.00	0.27	0.138	0.196	0.025	0.11
61	5.08	0.20	0.103	0.195	0.019	0.08
62	5.17	0.20	0.103	0.194	0.019	0.08
63	5.25	0.20	0.103	0.194	0.019	0.08
64	5.33	0.23	0.120	0.193	0.022	0.10
65	5.42	0.23	0.120	0.192	0.022	0.10
66	5.50	0.23	0.120	0.191	0.022	0.10
67	5.58	0.27	0.138	0.190	0.025	0.11
68	5.67	0.27	0.138	0.189	0.025	0.11
69	5.75	0.27	0.138	0.189	0.025	0.11
70	5.83	0.27	0.138	0.188	0.025	0.11
71	5.92	0.27	0.138	0.187	0.025	0.11
72	6.00	0.27	0.138	0.186	0.025	0.11
73	6.08	0.30	0.155	0.185	0.028	0.13
74	6.17	0.30	0.155	0.184	0.028	0.13
75	6.25	0.30	0.155	0.184	0.028	0.13
76	6.33	0.30	0.155	0.183	0.028	0.13
77	6.42	0.30	0.155	0.182	0.028	0.13
78	6.50	0.30	0.155	0.181	0.028	0.13
79	6.58	0.33	0.172	0.180	0.031	0.14
80	6.67	0.33	0.172	0.180	0.031	0.14
81	6.75	0.33	0.172	0.179	0.031	0.14
82	6.83	0.33	0.172	0.178	0.031	0.14
83	6.92	0.33	0.172	0.177	0.031	0.14
84	7.00	0.33	0.172	0.176	0.031	0.14
85	7.08	0.33	0.172	0.176	0.031	0.14
86	7.17	0.33	0.172	0.175	0.031	0.14
87	7.25	0.33	0.172	0.174	0.031	0.14
88	7.33	0.37	0.189	0.173	---	0.02
89	7.42	0.37	0.189	0.172	---	0.02
90	7.50	0.37	0.189	0.172	---	0.02
91	7.58	0.40	0.206	0.171	---	0.04
92	7.67	0.40	0.206	0.170	---	0.04
93	7.75	0.40	0.206	0.169	---	0.04
94	7.83	0.43	0.224	0.168	---	0.06
95	7.92	0.43	0.224	0.168	---	0.06
96	8.00	0.43	0.224	0.167	---	0.06
97	8.08	0.50	0.258	0.166	---	0.09
98	8.17	0.50	0.258	0.165	---	0.09
99	8.25	0.50	0.258	0.165	---	0.09
100	8.33	0.50	0.258	0.164	---	0.09
101	8.42	0.50	0.258	0.163	---	0.10
102	8.50	0.50	0.258	0.162	---	0.10
103	8.58	0.53	0.275	0.161	---	0.11
104	8.67	0.53	0.275	0.161	---	0.11
105	8.75	0.53	0.275	0.160	---	0.12
106	8.83	0.57	0.292	0.159	---	0.13
107	8.92	0.57	0.292	0.158	---	0.13
108	9.00	0.57	0.292	0.158	---	0.13
109	9.08	0.63	0.327	0.157	---	0.17
110	9.17	0.63	0.327	0.156	---	0.17
111	9.25	0.63	0.327	0.155	---	0.17
112	9.33	0.67	0.344	0.155	---	0.19
113	9.42	0.67	0.344	0.154	---	0.19
114	9.50	0.67	0.344	0.153	---	0.19
115	9.58	0.70	0.361	0.153	---	0.21
116	9.67	0.70	0.361	0.152	---	0.21
117	9.75	0.70	0.361	0.151	---	0.21
118	9.83	0.73	0.378	0.150	---	0.23
119	9.92	0.73	0.378	0.150	---	0.23
120	10.00	0.73	0.378	0.149	---	0.23
121	10.08	0.50	0.258	0.148	---	0.11
122	10.17	0.50	0.258	0.147	---	0.11
123	10.25	0.50	0.258	0.147	---	0.11
124	10.33	0.50	0.258	0.146	---	0.11
125	10.42	0.50	0.258	0.145	---	0.11
126	10.50	0.50	0.258	0.145	---	0.11
127	10.58	0.67	0.344	0.144	---	0.20
128	10.67	0.67	0.344	0.143	---	0.20
129	10.75	0.67	0.344	0.142	---	0.20
130	10.83	0.67	0.344	0.142	---	0.20
131	10.92	0.67	0.344	0.141	---	0.20
132	11.00	0.67	0.344	0.140	---	0.20
133	11.08	0.63	0.327	0.140	---	0.19
134	11.17	0.63	0.327	0.139	---	0.19
135	11.25	0.63	0.327	0.138	---	0.19
136	11.33	0.63	0.327	0.138	---	0.19

137	11.42	0.63	0.327	0.137	---	0.19
138	11.50	0.63	0.327	0.136	---	0.19
139	11.58	0.57	0.292	0.136	---	0.16
140	11.67	0.57	0.292	0.135	---	0.16
141	11.75	0.57	0.292	0.134	---	0.16
142	11.83	0.60	0.310	0.134	---	0.18
143	11.92	0.60	0.310	0.133	---	0.18
144	12.00	0.60	0.310	0.132	---	0.18
145	12.08	0.83	0.430	0.132	---	0.30
146	12.17	0.83	0.430	0.131	---	0.30
147	12.25	0.83	0.430	0.130	---	0.30
148	12.33	0.87	0.447	0.130	---	0.32
149	12.42	0.87	0.447	0.129	---	0.32
150	12.50	0.87	0.447	0.128	---	0.32
151	12.58	0.93	0.482	0.128	---	0.35
152	12.67	0.93	0.482	0.127	---	0.35
153	12.75	0.93	0.482	0.126	---	0.36
154	12.83	0.97	0.499	0.126	---	0.37
155	12.92	0.97	0.499	0.125	---	0.37
156	13.00	0.97	0.499	0.124	---	0.37
157	13.08	1.13	0.585	0.124	---	0.46
158	13.17	1.13	0.585	0.123	---	0.46
159	13.25	1.13	0.585	0.123	---	0.46
160	13.33	1.13	0.585	0.122	---	0.46
161	13.42	1.13	0.585	0.121	---	0.46
162	13.50	1.13	0.585	0.121	---	0.46
163	13.58	0.77	0.396	0.120	---	0.28
164	13.67	0.77	0.396	0.120	---	0.28
165	13.75	0.77	0.396	0.119	---	0.28
166	13.83	0.77	0.396	0.118	---	0.28
167	13.92	0.77	0.396	0.118	---	0.28
168	14.00	0.77	0.396	0.117	---	0.28
169	14.08	0.90	0.464	0.117	---	0.35
170	14.17	0.90	0.464	0.116	---	0.35
171	14.25	0.90	0.464	0.115	---	0.35
172	14.33	0.87	0.447	0.115	---	0.33
173	14.42	0.87	0.447	0.114	---	0.33
174	14.50	0.87	0.447	0.114	---	0.33
175	14.58	0.87	0.447	0.113	---	0.33
176	14.67	0.87	0.447	0.112	---	0.33
177	14.75	0.87	0.447	0.112	---	0.34
178	14.83	0.83	0.430	0.111	---	0.32
179	14.92	0.83	0.430	0.111	---	0.32
180	15.00	0.83	0.430	0.110	---	0.32
181	15.08	0.80	0.413	0.110	---	0.30
182	15.17	0.80	0.413	0.109	---	0.30
183	15.25	0.80	0.413	0.108	---	0.30
184	15.33	0.77	0.396	0.108	---	0.29
185	15.42	0.77	0.396	0.107	---	0.29
186	15.50	0.77	0.396	0.107	---	0.29
187	15.58	0.63	0.327	0.106	---	0.22
188	15.67	0.63	0.327	0.106	---	0.22
189	15.75	0.63	0.327	0.105	---	0.22
190	15.83	0.63	0.327	0.105	---	0.22
191	15.92	0.63	0.327	0.104	---	0.22
192	16.00	0.63	0.327	0.104	---	0.22
193	16.08	0.13	0.069	0.103	0.012	0.06
194	16.17	0.13	0.069	0.102	0.012	0.06
195	16.25	0.13	0.069	0.102	0.012	0.06
196	16.33	0.13	0.069	0.101	0.012	0.06
197	16.42	0.13	0.069	0.101	0.012	0.06
198	16.50	0.13	0.069	0.100	0.012	0.06
199	16.58	0.10	0.052	0.100	0.009	0.04
200	16.67	0.10	0.052	0.099	0.009	0.04
201	16.75	0.10	0.052	0.099	0.009	0.04
202	16.83	0.10	0.052	0.098	0.009	0.04
203	16.92	0.10	0.052	0.098	0.009	0.04
204	17.00	0.10	0.052	0.097	0.009	0.04
205	17.08	0.17	0.086	0.097	0.015	0.07
206	17.17	0.17	0.086	0.096	0.015	0.07
207	17.25	0.17	0.086	0.096	0.015	0.07
208	17.33	0.17	0.086	0.095	0.015	0.07
209	17.42	0.17	0.086	0.095	0.015	0.07
210	17.50	0.17	0.086	0.094	0.015	0.07
211	17.58	0.17	0.086	0.094	0.015	0.07
212	17.67	0.17	0.086	0.094	0.015	0.07
213	17.75	0.17	0.086	0.093	0.015	0.07
214	17.83	0.13	0.069	0.093	0.012	0.06
215	17.92	0.13	0.069	0.092	0.012	0.06

216	18.00	0.13	0.069	0.092	0.012	0.06
217	18.08	0.13	0.069	0.091	0.012	0.06
218	18.17	0.13	0.069	0.091	0.012	0.06
219	18.25	0.13	0.069	0.090	0.012	0.06
220	18.33	0.13	0.069	0.090	0.012	0.06
221	18.42	0.13	0.069	0.089	0.012	0.06
222	18.50	0.13	0.069	0.089	0.012	0.06
223	18.58	0.10	0.052	0.089	0.009	0.04
224	18.67	0.10	0.052	0.088	0.009	0.04
225	18.75	0.10	0.052	0.088	0.009	0.04
226	18.83	0.07	0.034	0.087	0.006	0.03
227	18.92	0.07	0.034	0.087	0.006	0.03
228	19.00	0.07	0.034	0.087	0.006	0.03
229	19.08	0.10	0.052	0.086	0.009	0.04
230	19.17	0.10	0.052	0.086	0.009	0.04
231	19.25	0.10	0.052	0.085	0.009	0.04
232	19.33	0.13	0.069	0.085	0.012	0.06
233	19.42	0.13	0.069	0.085	0.012	0.06
234	19.50	0.13	0.069	0.084	0.012	0.06
235	19.58	0.10	0.052	0.084	0.009	0.04
236	19.67	0.10	0.052	0.083	0.009	0.04
237	19.75	0.10	0.052	0.083	0.009	0.04
238	19.83	0.07	0.034	0.083	0.006	0.03
239	19.92	0.07	0.034	0.082	0.006	0.03
240	20.00	0.07	0.034	0.082	0.006	0.03
241	20.08	0.10	0.052	0.082	0.009	0.04
242	20.17	0.10	0.052	0.081	0.009	0.04
243	20.25	0.10	0.052	0.081	0.009	0.04
244	20.33	0.10	0.052	0.080	0.009	0.04
245	20.42	0.10	0.052	0.080	0.009	0.04
246	20.50	0.10	0.052	0.080	0.009	0.04
247	20.58	0.10	0.052	0.079	0.009	0.04
248	20.67	0.10	0.052	0.079	0.009	0.04
249	20.75	0.10	0.052	0.079	0.009	0.04
250	20.83	0.07	0.034	0.078	0.006	0.03
251	20.92	0.07	0.034	0.078	0.006	0.03
252	21.00	0.07	0.034	0.078	0.006	0.03
253	21.08	0.10	0.052	0.078	0.009	0.04
254	21.17	0.10	0.052	0.077	0.009	0.04
255	21.25	0.10	0.052	0.077	0.009	0.04
256	21.33	0.07	0.034	0.077	0.006	0.03
257	21.42	0.07	0.034	0.076	0.006	0.03
258	21.50	0.07	0.034	0.076	0.006	0.03
259	21.58	0.10	0.052	0.076	0.009	0.04
260	21.67	0.10	0.052	0.075	0.009	0.04
261	21.75	0.10	0.052	0.075	0.009	0.04
262	21.83	0.07	0.034	0.075	0.006	0.03
263	21.92	0.07	0.034	0.075	0.006	0.03
264	22.00	0.07	0.034	0.074	0.006	0.03
265	22.08	0.10	0.052	0.074	0.009	0.04
266	22.17	0.10	0.052	0.074	0.009	0.04
267	22.25	0.10	0.052	0.074	0.009	0.04
268	22.33	0.07	0.034	0.073	0.006	0.03
269	22.42	0.07	0.034	0.073	0.006	0.03
270	22.50	0.07	0.034	0.073	0.006	0.03
271	22.58	0.07	0.034	0.073	0.006	0.03
272	22.67	0.07	0.034	0.073	0.006	0.03
273	22.75	0.07	0.034	0.072	0.006	0.03
274	22.83	0.07	0.034	0.072	0.006	0.03
275	22.92	0.07	0.034	0.072	0.006	0.03
276	23.00	0.07	0.034	0.072	0.006	0.03
277	23.08	0.07	0.034	0.072	0.006	0.03
278	23.17	0.07	0.034	0.072	0.006	0.03
279	23.25	0.07	0.034	0.071	0.006	0.03
280	23.33	0.07	0.034	0.071	0.006	0.03
281	23.42	0.07	0.034	0.071	0.006	0.03
282	23.50	0.07	0.034	0.071	0.006	0.03
283	23.58	0.07	0.034	0.071	0.006	0.03
284	23.67	0.07	0.034	0.071	0.006	0.03
285	23.75	0.07	0.034	0.071	0.006	0.03
286	23.83	0.07	0.034	0.071	0.006	0.03
287	23.92	0.07	0.034	0.071	0.006	0.03
288	24.00	0.07	0.034	0.070	0.006	0.03
Sum =		100.0			Sum =	34.8

Flood volume = Effective rainfall 2.90(In)
times area 12.6(Ac.)/[(In)/(Ft.)] = 3.1(Ac.Ft)
Total soil loss = 1.40(In)
Total soil loss = 1.468(Ac.Ft)
Total rainfall = 4.30(In)

Flood volume = 133037.0 Cubic Feet
Total soil loss = 63943.7 Cubic Feet

Peak flow rate of this hydrograph = 5.899(CFS)

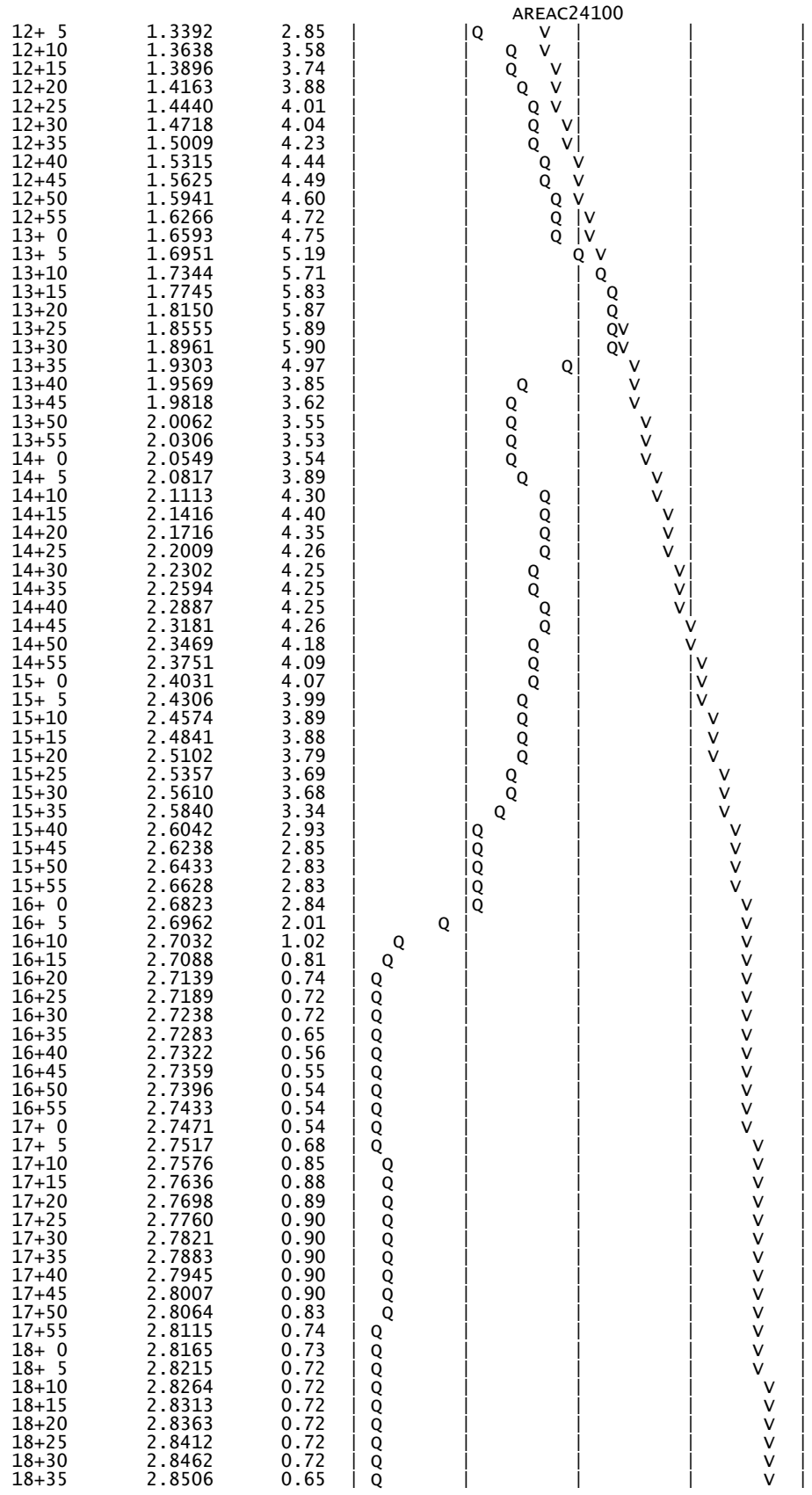
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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0010	0.14	Q				
0+10	0.0031	0.31	VQ				
0+15	0.0054	0.34	VQ				
0+20	0.0084	0.42	VQ				
0+25	0.0119	0.51	V Q				
0+30	0.0156	0.53	V Q				
0+35	0.0193	0.54	V Q				
0+40	0.0230	0.54	V Q				
0+45	0.0267	0.54	V Q				
0+50	0.0309	0.61	V Q				
0+55	0.0356	0.69	V Q				
1+ 0	0.0405	0.71	V Q				
1+ 5	0.0450	0.65	V Q				
1+10	0.0488	0.56	V Q				
1+15	0.0526	0.55	V Q				
1+20	0.0563	0.54	V Q				
1+25	0.0600	0.54	V Q				
1+30	0.0638	0.54	V Q				
1+35	0.0675	0.54	V Q				
1+40	0.0712	0.54	V Q				
1+45	0.0749	0.54	V Q				
1+50	0.0791	0.61	|VQ				
1+55	0.0838	0.69	|VQ				
2+ 0	0.0887	0.71	|VQ				
2+ 5	0.0937	0.72	|VQ				
2+10	0.0986	0.72	|VQ				
2+15	0.1035	0.72	|VQ				
2+20	0.1085	0.72	|VQ				
2+25	0.1134	0.72	|VQ				
2+30	0.1184	0.72	|VQ				
2+35	0.1238	0.79	|V Q				
2+40	0.1298	0.87	|V Q				
2+45	0.1359	0.89	|V Q				
2+50	0.1421	0.90	|V Q				
2+55	0.1483	0.90	|V Q				
3+ 0	0.1545	0.90	| VQ				
3+ 5	0.1606	0.90	| VQ				
3+10	0.1668	0.90	| VQ				
3+15	0.1730	0.90	| VQ				
3+20	0.1792	0.90	| VQ				
3+25	0.1854	0.90	| VQ				
3+30	0.1915	0.90	| VQ				
3+35	0.1977	0.90	| VQ				
3+40	0.2039	0.90	| VQ				
3+45	0.2101	0.90	| VQ				
3+50	0.2167	0.97	| VQ				
3+55	0.2240	1.05	| V Q				
4+ 0	0.2313	1.07	| VQ				
4+ 5	0.2387	1.07	| VQ				
4+10	0.2462	1.08	| VQ				
4+15	0.2536	1.08	| VQ				
4+20	0.2615	1.15	| VQ				
4+25	0.2700	1.23	| VQ				
4+30	0.2786	1.25	| VQ				
4+35	0.2872	1.25	| V Q				
4+40	0.2958	1.26	| V Q				
4+45	0.3045	1.26	| V Q				
4+50	0.3136	1.33	| VQ				
4+55	0.3233	1.41	| VQ				
5+ 0	0.3332	1.43	| VQ				
5+ 5	0.3421	1.29	| VQ				
5+10	0.3498	1.13	| Q				
5+15	0.3574	1.09	| Q				
5+20	0.3653	1.15	| Q				
5+25	0.3738	1.23	| Q				

5+30	0.3824	1.25	QV				
5+35	0.3915	1.32	Q				
5+40	0.4012	1.41	Q				
5+45	0.4110	1.43	Q				
5+50	0.4209	1.43	Q				
5+55	0.4308	1.44	Q				
6+ 0	0.4407	1.44	Q				
6+ 5	0.4511	1.51	VQ				
6+10	0.4620	1.59	Q				
6+15	0.4731	1.61	Q				
6+20	0.4842	1.61	Q				
6+25	0.4953	1.62	Q				
6+30	0.5064	1.62	Q				
6+35	0.5180	1.69	Q				
6+40	0.5302	1.77	VQ				
6+45	0.5425	1.79	Q				
6+50	0.5549	1.79	Q				
6+55	0.5672	1.79	Q				
7+ 0	0.5796	1.79	Q				
7+ 5	0.5920	1.79	Q				
7+10	0.6043	1.79	Q				
7+15	0.6167	1.79	QV				
7+20	0.6248	1.17	Q V				
7+25	0.6278	0.43	Q V				
7+30	0.6297	0.29	Q V				
7+35	0.6320	0.33	Q V				
7+40	0.6349	0.42	Q V				
7+45	0.6381	0.46	Q V				
7+50	0.6419	0.56	Q V				
7+55	0.6466	0.67	Q V				
8+ 0	0.6514	0.70	Q V				
8+ 5	0.6576	0.89	Q V				
8+10	0.6652	1.11	Q V				
8+15	0.6732	1.16	Q V				
8+20	0.6814	1.19	Q V				
8+25	0.6896	1.20	Q V				
8+30	0.6980	1.21	Q V				
8+35	0.7070	1.31	Q V				
8+40	0.7167	1.42	Q V				
8+45	0.7267	1.45	Q V				
8+50	0.7374	1.55	Q V				
8+55	0.7489	1.67	Q V				
9+ 0	0.7606	1.70	Q V				
9+ 5	0.7735	1.88	Q V				
9+10	0.7880	2.10	Q V				
9+15	0.8028	2.15	Q V				
9+20	0.8184	2.26	QV				
9+25	0.8348	2.38	QV				
9+30	0.8514	2.41	Q V				
9+35	0.8687	2.51	QV				
9+40	0.8868	2.63	QV				
9+45	0.9051	2.66	QV				
9+50	0.9241	2.76	QV				
9+55	0.9439	2.87	QV				
10+ 0	0.9639	2.90	QV				
10+ 5	0.9799	2.32	Q V				
10+10	0.9910	1.62	Q V				
10+15	1.0012	1.48	Q V				
10+20	1.0111	1.44	Q V				
10+25	1.0209	1.43	Q V				
10+30	1.0308	1.44	Q V				
10+35	1.0437	1.87	Q V				
10+40	1.0601	2.39	Q V				
10+45	1.0774	2.51	Q V				
10+50	1.0950	2.55	Q V				
10+55	1.1127	2.57	Q V				
11+ 0	1.1305	2.58	Q V				
11+ 5	1.1478	2.51	Q V				
11+10	1.1644	2.41	Q V				
11+15	1.1809	2.40	Q V				
11+20	1.1975	2.40	Q V				
11+25	1.2141	2.41	Q V				
11+30	1.2307	2.42	Q V				
11+35	1.2463	2.25	Q V				
11+40	1.2604	2.06	Q V				
11+45	1.2744	2.02	Q V				
11+50	1.2889	2.10	Q V				
11+55	1.3041	2.21	Q V				
12+ 0	1.3195	2.24	Q V				



12+ 5	1.3392	2.85	
12+10	1.3638	3.58	
12+15	1.3896	3.74	
12+20	1.4163	3.88	
12+25	1.4440	4.01	
12+30	1.4718	4.04	
12+35	1.5009	4.23	
12+40	1.5315	4.44	
12+45	1.5625	4.49	
12+50	1.5941	4.60	
12+55	1.6266	4.72	
13+ 0	1.6593	4.75	
13+ 5	1.6951	5.19	
13+10	1.7344	5.71	
13+15	1.7745	5.83	
13+20	1.8150	5.87	
13+25	1.8555	5.89	
13+30	1.8961	5.90	
13+35	1.9303	4.97	
13+40	1.9569	3.85	
13+45	1.9818	3.62	
13+50	2.0062	3.55	
13+55	2.0306	3.53	
14+ 0	2.0549	3.54	
14+ 5	2.0817	3.89	
14+10	2.1113	4.30	
14+15	2.1416	4.40	
14+20	2.1716	4.35	
14+25	2.2009	4.26	
14+30	2.2302	4.25	
14+35	2.2594	4.25	
14+40	2.2887	4.25	
14+45	2.3181	4.26	
14+50	2.3469	4.18	
14+55	2.3751	4.09	
15+ 0	2.4031	4.07	
15+ 5	2.4306	3.99	
15+10	2.4574	3.89	
15+15	2.4841	3.88	
15+20	2.5102	3.79	
15+25	2.5357	3.69	
15+30	2.5610	3.68	
15+35	2.5840	3.34	
15+40	2.6042	2.93	
15+45	2.6238	2.85	
15+50	2.6433	2.83	
15+55	2.6628	2.83	
16+ 0	2.6823	2.84	
16+ 5	2.6962	2.01	
16+10	2.7032	1.02	
16+15	2.7088	0.81	
16+20	2.7139	0.74	
16+25	2.7189	0.72	
16+30	2.7238	0.72	
16+35	2.7283	0.65	
16+40	2.7322	0.56	
16+45	2.7359	0.55	
16+50	2.7396	0.54	
16+55	2.7433	0.54	
17+ 0	2.7471	0.54	
17+ 5	2.7517	0.68	
17+10	2.7576	0.85	
17+15	2.7636	0.88	
17+20	2.7698	0.89	
17+25	2.7760	0.90	
17+30	2.7821	0.90	
17+35	2.7883	0.90	
17+40	2.7945	0.90	
17+45	2.8007	0.90	
17+50	2.8064	0.83	
17+55	2.8115	0.74	
18+ 0	2.8165	0.73	
18+ 5	2.8215	0.72	
18+10	2.8264	0.72	
18+15	2.8313	0.72	
18+20	2.8363	0.72	
18+25	2.8412	0.72	
18+30	2.8462	0.72	
18+35	2.8506	0.65	

18+40	2.8545	0.56	Q			V
18+45	2.8583	0.55	Q			V
18+50	2.8615	0.47	Q			V
18+55	2.8642	0.38	Q			V
19+ 0	2.8667	0.37	Q			V
19+ 5	2.8697	0.43	Q			V
19+10	2.8732	0.51	Q			V
19+15	2.8769	0.53	Q			V
19+20	2.8810	0.61	Q			V
19+25	2.8858	0.69	Q			V
19+30	2.8907	0.71	Q			V
19+35	2.8951	0.65	Q			V
19+40	2.8990	0.56	Q			V
19+45	2.9028	0.55	Q			V
19+50	2.9060	0.47	Q			V
19+55	2.9087	0.38	Q			V
20+ 0	2.9112	0.37	Q			V
20+ 5	2.9142	0.43	Q			V
20+10	2.9177	0.51	Q			V
20+15	2.9213	0.53	Q			V
20+20	2.9250	0.54	Q			V
20+25	2.9287	0.54	Q			V
20+30	2.9325	0.54	Q			V
20+35	2.9362	0.54	Q			V
20+40	2.9399	0.54	Q			V
20+45	2.9436	0.54	Q			V
20+50	2.9468	0.47	Q			V
20+55	2.9495	0.38	Q			V
21+ 0	2.9520	0.37	Q			V
21+ 5	2.9550	0.43	Q			V
21+10	2.9585	0.51	Q			V
21+15	2.9621	0.53	Q			V
21+20	2.9653	0.47	Q			V
21+25	2.9680	0.38	Q			V
21+30	2.9705	0.37	Q			V
21+35	2.9735	0.43	Q			V
21+40	2.9770	0.51	Q			V
21+45	2.9807	0.53	Q			V
21+50	2.9839	0.47	Q			V
21+55	2.9865	0.38	Q			V
22+ 0	2.9891	0.37	Q			V
22+ 5	2.9920	0.43	Q			V
22+10	2.9956	0.51	Q			V
22+15	2.9992	0.53	Q			V
22+20	3.0024	0.47	Q			V
22+25	3.0051	0.38	Q			V
22+30	3.0076	0.37	Q			V
22+35	3.0101	0.36	Q			V
22+40	3.0126	0.36	Q			V
22+45	3.0150	0.36	Q			V
22+50	3.0175	0.36	Q			V
22+55	3.0200	0.36	Q			V
23+ 0	3.0224	0.36	Q			V
23+ 5	3.0249	0.36	Q			V
23+10	3.0274	0.36	Q			V
23+15	3.0299	0.36	Q			V
23+20	3.0323	0.36	Q			V
23+25	3.0348	0.36	Q			V
23+30	3.0373	0.36	Q			V
23+35	3.0398	0.36	Q			V
23+40	3.0422	0.36	Q			V
23+45	3.0447	0.36	Q			V
23+50	3.0472	0.36	Q			V
23+55	3.0496	0.36	Q			V
24+ 0	3.0521	0.36	Q			V
24+ 5	3.0536	0.22	Q			V
24+10	3.0540	0.05	Q			V
24+15	3.0541	0.02	Q			V
24+20	3.0541	0.00	Q			V

U n i t H y d r o g r a p h A n a l y s i s

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

TRI-8 Builders - S/N 615

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TPM NO. 37235
PROPOSED CONDITION - ON-SITE
AREA "A"
200YR (1.3 HIGHER THAN 100YR)

Drainage Area = 77.96(Ac.) = 0.122 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 77.96(Ac.) = 0.122 Sq. Mi.
Length along longest watercourse = 5010.00(Ft.)
Length along longest watercourse measured to centroid = 1530.00(Ft.)
Length along longest watercourse = 0.949 Mi.
Length along longest watercourse measured to centroid = 0.290 Mi.
Difference in elevation = 80.80(Ft.)
Slope along watercourse = 85.1545 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.095 Hr.
Lag time = 5.68 Min.
25% of lag time = 1.42 Min.
40% of lag time = 2.27 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
77.96	0.70	54.57

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
77.96	2.03	158.26

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.700(In)
Area Averaged 100-Year Rainfall = 2.030(In)

Point rain (area averaged) = 2.030(In)
Areal adjustment factor = 99.93 %
Adjusted average point rain = 2.029(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
77.960	32.00	0.900

Total Area Entered = 77.96(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
32.0	52.0	0.552	0.900	0.105	1.000	0.105
					Sum (F) =	0.105

Area averaged mean soil loss (F) (In/Hr) = 0.105
Minimum soil loss rate ((In/Hr)) = 0.052
(for 24 hour storm duration)

Soil low loss rate (decimal) = 0.180

Slope of intensity-duration curve for a 1 hour storm =0.5800

U n i t H y d r o g r a p h
DESERT S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	87.970	13.284	10.437
2	0.167	175.941	48.525	38.126
3	0.250	263.911	18.777	14.753
4	0.333	351.881	8.412	6.609
5	0.417	439.852	4.618	3.628
6	0.500	527.822	2.824	2.219
7	0.583	615.793	1.559	1.225
8	0.667	703.763	1.018	0.800
9	0.750	791.733	0.983	0.772
		Sum =	100.000 Sum=	78.569

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	3.60	0.876	0.105	---	0.77
2	0.17	4.20	1.022	0.105	---	0.92
3	0.25	4.40	1.071	0.105	---	0.97
4	0.33	4.60	1.120	0.105	---	1.01
5	0.42	5.00	1.217	0.105	---	1.11
6	0.50	5.60	1.363	0.105	---	1.26
7	0.58	6.40	1.558	0.105	---	1.45
8	0.67	8.10	1.972	0.105	---	1.87
9	0.75	13.10	3.189	0.105	---	3.08
10	0.83	34.50	8.398	0.105	---	8.29
11	0.92	6.70	1.631	0.105	---	1.53
12	1.00	3.80	0.925	0.105	---	0.82
Sum =		100.0			Sum =	23.1

Flood volume = Effective rainfall 1.92(In)
times area 78.0(Ac.)/[(In)/(Ft.)] = 12.5(Ac.Ft)
Total soil loss = 0.10(In)
Total soil loss = 0.681(Ac.Ft)
Total rainfall = 2.03(In)
Flood volume = 544414.6 Cubic Feet
Total soil loss = 29659.0 Cubic Feet

Peak flow rate of this hydrograph = 401.155(CFS)

1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 125.0 250.0 375.0 500.0
0+ 5	0.0555	8.06	Q
0+10	0.3242	39.01	|V Q
0+15	0.7132	56.48	| V Q
0+20	1.1684	66.10	| V Q
0+25	1.6744	73.46	| Q
0+30	2.2390	81.99	| QV
0+35	2.8781	92.80	| Q V|
0+40	3.6248	108.43	| Q |V
0+45	4.6028	142.00	| |Q V
0+50	6.3327	251.18	| | Q
0+55	9.0954	401.15	| | | V| Q
1+ 0	10.6299	222.81	| | Q | | V
1+ 5	11.5090	127.64	| Q | | V |
1+10	11.9469	63.57	| Q | | | V |
1+15	12.1932	35.77	| Q | | | | V|
1+20	12.3340	20.44	|Q | | | | V|
1+25	12.4216	12.71	|Q | | | | V|
1+30	12.4810	8.64	Q | | | | V|
1+35	12.4937	1.84	Q | | | | V|

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                                                        AREAA1100
    1+40      12.4980      0.63  Q         |          |         |        V|
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U n i t H y d r o g r a p h A n a l y s i s

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

TRI-8 Builders - S/N 615

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TPM NO. 37235
PROPOSED CONDITION - ON-SITE
AREA "A"
200YR (1.3 HIGHER THAN 100YR)

Drainage Area = 77.96(Ac.) = 0.122 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 77.96(Ac.) = 0.122 Sq. Mi.
Length along longest watercourse = 5010.00(Ft.)
Length along longest watercourse measured to centroid = 1530.00(Ft.)
Length along longest watercourse = 0.949 Mi.
Length along longest watercourse measured to centroid = 0.290 Mi.
Difference in elevation = 80.80(Ft.)
Slope along watercourse = 85.1545 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.095 Hr.
Lag time = 5.68 Min.
25% of lag time = 1.42 Min.
40% of lag time = 2.27 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
77.96	0.94	73.28

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
77.96	2.83	220.63

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.940(In)
Area Averaged 100-Year Rainfall = 2.830(In)

Point rain (area averaged) = 2.830(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 2.829(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
77.960	32.00	0.900

Total Area Entered = 77.96(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
32.0	52.0	0.552	0.900	0.105	1.000	0.105
					Sum (F) =	0.105

Area averaged mean soil loss (F) (In/Hr) = 0.105
Minimum soil loss rate ((In/Hr)) = 0.052
(for 24 hour storm duration)

Soil low loss rate (decimal) = 0.180

U n i t H y d r o g r a p h
DESERT S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	87.970	13.284	10.437
2	0.167	175.941	48.525	38.126
3	0.250	263.911	18.777	14.753
4	0.333	351.881	8.412	6.609
5	0.417	439.852	4.618	3.628
6	0.500	527.822	2.824	2.219
7	0.583	615.793	1.559	1.225
8	0.667	703.763	1.018	0.800
9	0.750	791.733	0.983	0.772
		Sum = 100.000	Sum=	78.569

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.441	0.105	---	0.34
2	0.17	1.30	0.441	0.105	---	0.34
3	0.25	1.10	0.373	0.105	---	0.27
4	0.33	1.50	0.509	0.105	---	0.40
5	0.42	1.50	0.509	0.105	---	0.40
6	0.50	1.80	0.611	0.105	---	0.51
7	0.58	1.50	0.509	0.105	---	0.40
8	0.67	1.80	0.611	0.105	---	0.51
9	0.75	1.80	0.611	0.105	---	0.51
10	0.83	1.50	0.509	0.105	---	0.40
11	0.92	1.60	0.543	0.105	---	0.44
12	1.00	1.80	0.611	0.105	---	0.51
13	1.08	2.20	0.747	0.105	---	0.64
14	1.17	2.20	0.747	0.105	---	0.64
15	1.25	2.20	0.747	0.105	---	0.64
16	1.33	2.00	0.679	0.105	---	0.57
17	1.42	2.60	0.883	0.105	---	0.78
18	1.50	2.70	0.917	0.105	---	0.81
19	1.58	2.40	0.815	0.105	---	0.71
20	1.67	2.70	0.917	0.105	---	0.81
21	1.75	3.30	1.120	0.105	---	1.02
22	1.83	3.10	1.052	0.105	---	0.95
23	1.92	2.90	0.985	0.105	---	0.88
24	2.00	3.00	1.018	0.105	---	0.91
25	2.08	3.10	1.052	0.105	---	0.95
26	2.17	4.20	1.426	0.105	---	1.32
27	2.25	5.00	1.697	0.105	---	1.59
28	2.33	3.50	1.188	0.105	---	1.08
29	2.42	6.80	2.308	0.105	---	2.20
30	2.50	7.30	2.478	0.105	---	2.37
31	2.58	8.20	2.784	0.105	---	2.68
32	2.67	5.90	2.003	0.105	---	1.90
33	2.75	2.00	0.679	0.105	---	0.57
34	2.83	1.80	0.611	0.105	---	0.51
35	2.92	1.80	0.611	0.105	---	0.51
36	3.00	0.60	0.204	0.105	---	0.10
Sum =		100.0			Sum =	30.2

Flood volume = Effective rainfall 2.51(In)
times area 78.0(Ac.)/[(In)/(Ft.)] = 16.3(Ac.Ft)
Total soil loss = 0.31(In)
Total soil loss = 2.043(Ac.Ft)
Total rainfall = 2.83(In)
Flood volume = 711625.2 Cubic Feet
Total soil loss = 88977.0 Cubic Feet

Peak flow rate of this hydrograph = 182.169(CFS)

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3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

AREAA3100

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	50.0	100.0	150.0	200.0
0+ 5	0.0242	3.51	Q				
0+10	0.1368	16.35	V Q				
0+15	0.2788	20.61	V Q				
0+20	0.4279	21.66	V Q				
0+25	0.6143	27.06	V Q				
0+30	0.8239	30.43	V Q				
0+35	1.0602	34.31	V Q				
0+40	1.2916	33.61	V Q				
0+45	1.5474	37.14	V Q				
0+50	1.8049	37.39	V Q				
0+55	2.0421	34.44	VQ				
1+ 0	2.2854	35.32	V Q				
1+ 5	2.5563	39.34	VQ				
1+10	2.8696	45.50	V Q				
1+15	3.1992	47.85	V Q				
1+20	3.5319	48.31	VQ				
1+25	3.8656	48.45	Q				
1+30	4.2506	55.91	VQ				
1+35	4.6566	58.95	Q				
1+40	5.0553	57.89	QV				
1+45	5.4913	63.31	QV				
1+50	5.9851	71.70	Q				
1+55	6.4808	71.98	QV				
2+ 0	6.9656	70.38	Q V				
2+ 5	7.4587	71.61	Q V				
2+10	7.9899	77.13	Q V				
2+15	8.6427	94.79	Q V				
2+20	9.3707	105.70	QV				
2+25	10.0916	104.67	Q V				
2+30	11.0890	144.82	VQ				
2+35	12.2562	169.49	V Q				
2+40	13.5109	182.17	V Q				
2+45	14.5287	147.78	Q V				
2+50	15.1488	90.05	Q V				
2+55	15.5994	65.42	Q V				
3+ 0	15.9435	49.96	Q V				
3+ 5	16.1348	27.78	Q V				
3+10	16.2327	14.22	Q V				
3+15	16.2872	7.91	Q V				
3+20	16.3149	4.03	Q V				
3+25	16.3266	1.69	Q V				
3+30	16.3329	0.92	Q V				
3+35	16.3361	0.47	Q V				
3+40	16.3367	0.08	Q V				

U n i t H y d r o g r a p h A n a l y s i s

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

TRI-8 Builders - S/N 615

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TPM NO. 37235
PROPOSED CONDITION - ON-SITE
AREA "A"
200YR (1.3 HIGHER THAN 100YR)

Drainage Area = 77.96(Ac.) = 0.122 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 77.96(Ac.) = 0.122 Sq. Mi.
Length along longest watercourse = 5010.00(Ft.)
Length along longest watercourse measured to centroid = 1530.00(Ft.)
Length along longest watercourse = 0.949 Mi.
Length along longest watercourse measured to centroid = 0.290 Mi.
Difference in elevation = 80.80(Ft.)
Slope along watercourse = 85.1545 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.095 Hr.
Lag time = 5.68 Min.
25% of lag time = 1.42 Min.
40% of lag time = 2.27 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
77.96	1.14	88.87

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
77.96	3.30	257.27

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 1.140(In)
Area Averaged 100-Year Rainfall = 3.300(In)

Point rain (area averaged) = 3.300(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 3.299(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
77.960	32.00	0.900

Total Area Entered = 77.96(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
32.0	52.0	0.552	0.900	0.105	1.000	0.105
					Sum (F) =	0.105

Area averaged mean soil loss (F) (In/Hr) = 0.105
Minimum soil loss rate ((In/Hr)) = 0.052
(for 24 hour storm duration)

Soil low loss rate (decimal) = 0.180

U n i t H y d r o g r a p h
DESERT S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	87.970	13.284	10.437
2	0.167	175.941	48.525	38.126
3	0.250	263.911	18.777	14.753
4	0.333	351.881	8.412	6.609
5	0.417	439.852	4.618	3.628
6	0.500	527.822	2.824	2.219
7	0.583	615.793	1.559	1.225
8	0.667	703.763	1.018	0.800
9	0.750	791.733	0.983	0.772
			Sum = 100.000	Sum= 78.569

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.198	0.105	---	0.09
2	0.17	0.60	0.238	0.105	---	0.13
3	0.25	0.60	0.238	0.105	---	0.13
4	0.33	0.60	0.238	0.105	---	0.13
5	0.42	0.60	0.238	0.105	---	0.13
6	0.50	0.70	0.277	0.105	---	0.17
7	0.58	0.70	0.277	0.105	---	0.17
8	0.67	0.70	0.277	0.105	---	0.17
9	0.75	0.70	0.277	0.105	---	0.17
10	0.83	0.70	0.277	0.105	---	0.17
11	0.92	0.70	0.277	0.105	---	0.17
12	1.00	0.80	0.317	0.105	---	0.21
13	1.08	0.80	0.317	0.105	---	0.21
14	1.17	0.80	0.317	0.105	---	0.21
15	1.25	0.80	0.317	0.105	---	0.21
16	1.33	0.80	0.317	0.105	---	0.21
17	1.42	0.80	0.317	0.105	---	0.21
18	1.50	0.80	0.317	0.105	---	0.21
19	1.58	0.80	0.317	0.105	---	0.21
20	1.67	0.80	0.317	0.105	---	0.21
21	1.75	0.80	0.317	0.105	---	0.21
22	1.83	0.80	0.317	0.105	---	0.21
23	1.92	0.80	0.317	0.105	---	0.21
24	2.00	0.90	0.356	0.105	---	0.25
25	2.08	0.80	0.317	0.105	---	0.21
26	2.17	0.90	0.356	0.105	---	0.25
27	2.25	0.90	0.356	0.105	---	0.25
28	2.33	0.90	0.356	0.105	---	0.25
29	2.42	0.90	0.356	0.105	---	0.25
30	2.50	0.90	0.356	0.105	---	0.25
31	2.58	0.90	0.356	0.105	---	0.25
32	2.67	0.90	0.356	0.105	---	0.25
33	2.75	1.00	0.396	0.105	---	0.29
34	2.83	1.00	0.396	0.105	---	0.29
35	2.92	1.00	0.396	0.105	---	0.29
36	3.00	1.00	0.396	0.105	---	0.29
37	3.08	1.00	0.396	0.105	---	0.29
38	3.17	1.10	0.435	0.105	---	0.33
39	3.25	1.10	0.435	0.105	---	0.33
40	3.33	1.10	0.435	0.105	---	0.33
41	3.42	1.20	0.475	0.105	---	0.37
42	3.50	1.30	0.515	0.105	---	0.41
43	3.58	1.40	0.554	0.105	---	0.45
44	3.67	1.40	0.554	0.105	---	0.45
45	3.75	1.50	0.594	0.105	---	0.49
46	3.83	1.50	0.594	0.105	---	0.49
47	3.92	1.60	0.633	0.105	---	0.53
48	4.00	1.60	0.633	0.105	---	0.53
49	4.08	1.70	0.673	0.105	---	0.57
50	4.17	1.80	0.713	0.105	---	0.61
51	4.25	1.90	0.752	0.105	---	0.65
52	4.33	2.00	0.792	0.105	---	0.69
53	4.42	2.10	0.831	0.105	---	0.73

54	4.50	2.10	0.831	0.105	---	0.73
55	4.58	2.20	0.871	0.105	---	0.77
56	4.67	2.30	0.911	0.105	---	0.81
57	4.75	2.40	0.950	0.105	---	0.85
58	4.83	2.40	0.950	0.105	---	0.85
59	4.92	2.50	0.990	0.105	---	0.88
60	5.00	2.60	1.029	0.105	---	0.92
61	5.08	3.10	1.227	0.105	---	1.12
62	5.17	3.60	1.425	0.105	---	1.32
63	5.25	3.90	1.544	0.105	---	1.44
64	5.33	4.20	1.663	0.105	---	1.56
65	5.42	4.70	1.861	0.105	---	1.76
66	5.50	5.60	2.217	0.105	---	2.11
67	5.58	1.90	0.752	0.105	---	0.65
68	5.67	0.90	0.356	0.105	---	0.25
69	5.75	0.60	0.238	0.105	---	0.13
70	5.83	0.50	0.198	0.105	---	0.09
71	5.92	0.30	0.119	0.105	---	0.01
72	6.00	0.20	0.079	0.105	0.014	0.06
Sum =		100.0			Sum =	32.1

Flood volume = Effective rainfall 2.68(In)
times area 78.0(Ac.)/[(In)/(Ft.)] = 17.4(Ac.Ft)
Total soil loss = 0.62(In)
Total soil loss = 4.036(Ac.Ft)
Total rainfall = 3.30(In)
Flood volume = 757814.1 Cubic Feet
Total soil loss = 175818.4 Cubic Feet

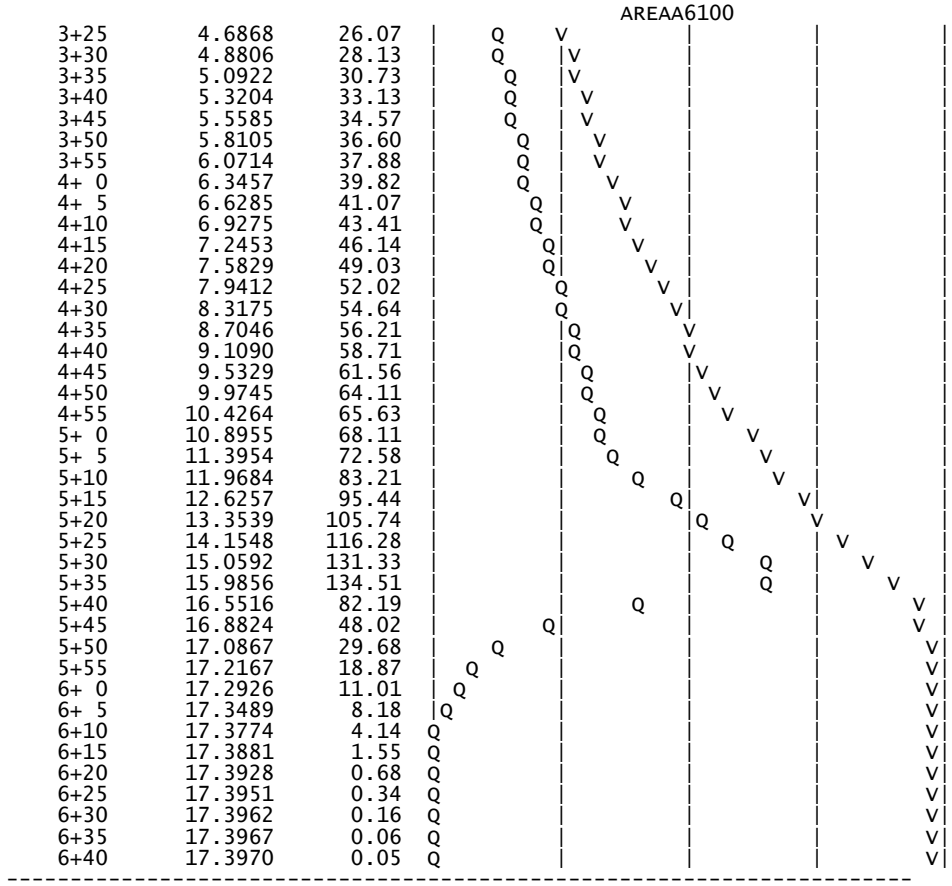
Peak flow rate of this hydrograph = 134.506(CFS)

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6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

```
Time(h+m) Volume Ac.Ft   Q(CFS)  0       50.0     100.0     150.0     200.0
-------------------------------------------------------------------------
  0+ 5       0.0067       0.97  Q          |          |          |          |
  0+10       0.0407       4.94  Q          |          |          |          |
  0+15       0.0946       7.82  VQ         |          |          |          |
  0+20       0.1567       9.02  VQ         |          |          |          |
  0+25       0.2230       9.62  VQ         |          |          |          |
  0+30       0.2946      10.39  V Q        |          |          |          |
  0+35       0.3779      12.10  V Q        |          |          |          |
  0+40       0.4661      12.81  |VQ        |          |          |          |
  0+45       0.5568      13.17  |VQ        |          |          |          |
  0+50       0.6488      13.35  |VQ        |          |          |          |
  0+55       0.7413      13.44  |VQ        |          |          |          |
  1+ 0       0.8370      13.90  |VQ        |          |          |          |
  1+ 5       0.9433      15.44  | VQ       |          |          |          |
  1+10       1.0539      16.05  | VQ       |          |          |          |
  1+15       1.1663      16.32  | VQ       |          |          |          |
  1+20       1.2796      16.46  | VQ       |          |          |          |
  1+25       1.3936      16.55  |  Q       |          |          |          |
  1+30       1.5079      16.60  |  Q       |          |          |          |
  1+35       1.6224      16.63  |  Q       |          |          |          |
  1+40       1.7371      16.66  |  Q       |          |          |          |
  1+45       1.8519      16.66  |  QV      |          |          |          |
  1+50       1.9666      16.66  |  QV      |          |          |          |
  1+55       2.0813      16.66  |  QV      |          |          |          |
  2+ 0       2.1989      17.07  |  Q V     |          |          |          |
  2+ 5       2.3240      18.17  |  Q V     |          |          |          |
  2+10       2.4456      17.66  |  Q V     |          |          |          |
  2+15       2.5754      18.84  |  Q V     |          |          |          |
  2+20       2.7084      19.31  |  Q  V    |          |          |          |
  2+25       2.8428      19.52  |  Q  V    |          |          |          |
  2+30       2.9779      19.62  |  Q  V    |          |          |          |
  2+35       3.1135      19.69  |  Q   V   |          |          |          |
  2+40       3.2495      19.74  |  Q   V   |          |          |          |
  2+45       3.3883      20.15  |   Q  V   |          |          |          |
  2+50       3.5377      21.69  |   Q   V  |          |          |          |
  2+55       3.6911      22.28  |   Q   V  |          |          |          |
  3+ 0       3.8463      22.54  |   Q   V  |          |          |          |
  3+ 5       4.0026      22.68  |   Q    V|          |          |          |
  3+10       4.1622      23.19  |   Q    V|          |          |          |
  3+15       4.3326      24.74  |   Q    V|          |          |          |
  3+20       4.5073      25.36  |    Q    V          |          |          |
```



3+25	4.6868	26.07	
3+30	4.8806	28.13	
3+35	5.0922	30.73	
3+40	5.3204	33.13	
3+45	5.5585	34.57	
3+50	5.8105	36.60	
3+55	6.0714	37.88	
4+ 0	6.3457	39.82	
4+ 5	6.6285	41.07	
4+10	6.9275	43.41	
4+15	7.2453	46.14	
4+20	7.5829	49.03	
4+25	7.9412	52.02	
4+30	8.3175	54.64	
4+35	8.7046	56.21	
4+40	9.1090	58.71	
4+45	9.5329	61.56	
4+50	9.9745	64.11	
4+55	10.4264	65.63	
5+ 0	10.8955	68.11	
5+ 5	11.3954	72.58	
5+10	11.9684	83.21	
5+15	12.6257	95.44	
5+20	13.3539	105.74	
5+25	14.1548	116.28	
5+30	15.0592	131.33	
5+35	15.9856	134.51	
5+40	16.5516	82.19	
5+45	16.8824	48.02	
5+50	17.0867	29.68	
5+55	17.2167	18.87	
6+ 0	17.2926	11.01	
6+ 5	17.3489	8.18	
6+10	17.3774	4.14	
6+15	17.3881	1.55	
6+20	17.3928	0.68	
6+25	17.3951	0.34	
6+30	17.3962	0.16	
6+35	17.3967	0.06	
6+40	17.3970	0.05	

U n i t H y d r o g r a p h A n a l y s i s

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Study date 02/14/17 File: AREAA24100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

TRI-8 Builders - S/N 615

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TPM NO. 37235
PROPOSED CONDITION - ON-SITE
AREA "A"
200YR (1.3 HIGHER THAN 100YR)

Drainage Area = 77.96(Ac.) = 0.122 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 77.96(Ac.) = 0.122 Sq. Mi.
Length along longest watercourse = 5010.00(Ft.)
Length along longest watercourse measured to centroid = 1530.00(Ft.)
Length along longest watercourse = 0.949 Mi.
Length along longest watercourse measured to centroid = 0.290 Mi.
Difference in elevation = 80.80(Ft.)
Slope along watercourse = 85.1545 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.095 Hr.
Lag time = 5.68 Min.
25% of lag time = 1.42 Min.
40% of lag time = 2.27 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
77.96	1.71	133.31

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
77.96	5.46	425.66

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 1.710(In)
Area Averaged 100-Year Rainfall = 5.460(In)

Point rain (area averaged) = 5.460(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 5.459(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
77.960	32.00	0.900

Total Area Entered = 77.96(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
32.0	52.0	0.552	0.900	0.105	1.000	0.105
					Sum (F) =	0.105

Area averaged mean soil loss (F) (In/Hr) = 0.105
Minimum soil loss rate ((In/Hr)) = 0.052
(for 24 hour storm duration)

AREAA24100

Soil low loss rate (decimal) = 0.180

U n i t H y d r o g r a p h
DESERT S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	87.970	13.284	10.437
2	0.167	175.941	48.525	38.126
3	0.250	263.911	18.777	14.753
4	0.333	351.881	8.412	6.609
5	0.417	439.852	4.618	3.628
6	0.500	527.822	2.824	2.219
7	0.583	615.793	1.559	1.225
8	0.667	703.763	1.018	0.800
9	0.750	791.733	0.983	0.772
			Sum = 100.000	Sum= 78.569

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.044	0.186	0.008	0.04
2	0.17	0.07	0.044	0.185	0.008	0.04
3	0.25	0.07	0.044	0.184	0.008	0.04
4	0.33	0.10	0.066	0.184	0.012	0.05
5	0.42	0.10	0.066	0.183	0.012	0.05
6	0.50	0.10	0.066	0.182	0.012	0.05
7	0.58	0.10	0.066	0.181	0.012	0.05
8	0.67	0.10	0.066	0.181	0.012	0.05
9	0.75	0.10	0.066	0.180	0.012	0.05
10	0.83	0.13	0.087	0.179	0.016	0.07
11	0.92	0.13	0.087	0.179	0.016	0.07
12	1.00	0.13	0.087	0.178	0.016	0.07
13	1.08	0.10	0.066	0.177	0.012	0.05
14	1.17	0.10	0.066	0.177	0.012	0.05
15	1.25	0.10	0.066	0.176	0.012	0.05
16	1.33	0.10	0.066	0.175	0.012	0.05
17	1.42	0.10	0.066	0.174	0.012	0.05
18	1.50	0.10	0.066	0.174	0.012	0.05
19	1.58	0.10	0.066	0.173	0.012	0.05
20	1.67	0.10	0.066	0.172	0.012	0.05
21	1.75	0.10	0.066	0.172	0.012	0.05
22	1.83	0.13	0.087	0.171	0.016	0.07
23	1.92	0.13	0.087	0.170	0.016	0.07
24	2.00	0.13	0.087	0.170	0.016	0.07
25	2.08	0.13	0.087	0.169	0.016	0.07
26	2.17	0.13	0.087	0.168	0.016	0.07
27	2.25	0.13	0.087	0.168	0.016	0.07
28	2.33	0.13	0.087	0.167	0.016	0.07
29	2.42	0.13	0.087	0.166	0.016	0.07
30	2.50	0.13	0.087	0.166	0.016	0.07
31	2.58	0.17	0.109	0.165	0.020	0.09
32	2.67	0.17	0.109	0.164	0.020	0.09
33	2.75	0.17	0.109	0.163	0.020	0.09
34	2.83	0.17	0.109	0.163	0.020	0.09
35	2.92	0.17	0.109	0.162	0.020	0.09
36	3.00	0.17	0.109	0.161	0.020	0.09
37	3.08	0.17	0.109	0.161	0.020	0.09
38	3.17	0.17	0.109	0.160	0.020	0.09
39	3.25	0.17	0.109	0.159	0.020	0.09
40	3.33	0.17	0.109	0.159	0.020	0.09
41	3.42	0.17	0.109	0.158	0.020	0.09
42	3.50	0.17	0.109	0.157	0.020	0.09
43	3.58	0.17	0.109	0.157	0.020	0.09
44	3.67	0.17	0.109	0.156	0.020	0.09
45	3.75	0.17	0.109	0.156	0.020	0.09
46	3.83	0.20	0.131	0.155	0.024	0.11
47	3.92	0.20	0.131	0.154	0.024	0.11
48	4.00	0.20	0.131	0.154	0.024	0.11
49	4.08	0.20	0.131	0.153	0.024	0.11
50	4.17	0.20	0.131	0.152	0.024	0.11
51	4.25	0.20	0.131	0.152	0.024	0.11
52	4.33	0.23	0.153	0.151	---	0.00
53	4.42	0.23	0.153	0.150	---	0.00

54	4.50	0.23	0.153	0.150	---	0.00
55	4.58	0.23	0.153	0.149	---	0.00
56	4.67	0.23	0.153	0.148	---	0.00
57	4.75	0.23	0.153	0.148	---	0.01
58	4.83	0.27	0.175	0.147	---	0.03
59	4.92	0.27	0.175	0.146	---	0.03
60	5.00	0.27	0.175	0.146	---	0.03
61	5.08	0.20	0.131	0.145	0.024	0.11
62	5.17	0.20	0.131	0.145	0.024	0.11
63	5.25	0.20	0.131	0.144	0.024	0.11
64	5.33	0.23	0.153	0.143	---	0.01
65	5.42	0.23	0.153	0.143	---	0.01
66	5.50	0.23	0.153	0.142	---	0.01
67	5.58	0.27	0.175	0.141	---	0.03
68	5.67	0.27	0.175	0.141	---	0.03
69	5.75	0.27	0.175	0.140	---	0.03
70	5.83	0.27	0.175	0.140	---	0.04
71	5.92	0.27	0.175	0.139	---	0.04
72	6.00	0.27	0.175	0.138	---	0.04
73	6.08	0.30	0.197	0.138	---	0.06
74	6.17	0.30	0.197	0.137	---	0.06
75	6.25	0.30	0.197	0.137	---	0.06
76	6.33	0.30	0.197	0.136	---	0.06
77	6.42	0.30	0.197	0.135	---	0.06
78	6.50	0.30	0.197	0.135	---	0.06
79	6.58	0.33	0.218	0.134	---	0.08
80	6.67	0.33	0.218	0.133	---	0.08
81	6.75	0.33	0.218	0.133	---	0.09
82	6.83	0.33	0.218	0.132	---	0.09
83	6.92	0.33	0.218	0.132	---	0.09
84	7.00	0.33	0.218	0.131	---	0.09
85	7.08	0.33	0.218	0.130	---	0.09
86	7.17	0.33	0.218	0.130	---	0.09
87	7.25	0.33	0.218	0.129	---	0.09
88	7.33	0.37	0.240	0.129	---	0.11
89	7.42	0.37	0.240	0.128	---	0.11
90	7.50	0.37	0.240	0.128	---	0.11
91	7.58	0.40	0.262	0.127	---	0.14
92	7.67	0.40	0.262	0.126	---	0.14
93	7.75	0.40	0.262	0.126	---	0.14
94	7.83	0.43	0.284	0.125	---	0.16
95	7.92	0.43	0.284	0.125	---	0.16
96	8.00	0.43	0.284	0.124	---	0.16
97	8.08	0.50	0.328	0.123	---	0.20
98	8.17	0.50	0.328	0.123	---	0.20
99	8.25	0.50	0.328	0.122	---	0.21
100	8.33	0.50	0.328	0.122	---	0.21
101	8.42	0.50	0.328	0.121	---	0.21
102	8.50	0.50	0.328	0.121	---	0.21
103	8.58	0.53	0.349	0.120	---	0.23
104	8.67	0.53	0.349	0.119	---	0.23
105	8.75	0.53	0.349	0.119	---	0.23
106	8.83	0.57	0.371	0.118	---	0.25
107	8.92	0.57	0.371	0.118	---	0.25
108	9.00	0.57	0.371	0.117	---	0.25
109	9.08	0.63	0.415	0.117	---	0.30
110	9.17	0.63	0.415	0.116	---	0.30
111	9.25	0.63	0.415	0.116	---	0.30
112	9.33	0.67	0.437	0.115	---	0.32
113	9.42	0.67	0.437	0.114	---	0.32
114	9.50	0.67	0.437	0.114	---	0.32
115	9.58	0.70	0.459	0.113	---	0.35
116	9.67	0.70	0.459	0.113	---	0.35
117	9.75	0.70	0.459	0.112	---	0.35
118	9.83	0.73	0.480	0.112	---	0.37
119	9.92	0.73	0.480	0.111	---	0.37
120	10.00	0.73	0.480	0.111	---	0.37
121	10.08	0.50	0.328	0.110	---	0.22
122	10.17	0.50	0.328	0.110	---	0.22
123	10.25	0.50	0.328	0.109	---	0.22
124	10.33	0.50	0.328	0.109	---	0.22
125	10.42	0.50	0.328	0.108	---	0.22
126	10.50	0.50	0.328	0.107	---	0.22
127	10.58	0.67	0.437	0.107	---	0.33
128	10.67	0.67	0.437	0.106	---	0.33
129	10.75	0.67	0.437	0.106	---	0.33
130	10.83	0.67	0.437	0.105	---	0.33
131	10.92	0.67	0.437	0.105	---	0.33
132	11.00	0.67	0.437	0.104	---	0.33

133	11.08	0.63	0.415	0.104	---	0.31
134	11.17	0.63	0.415	0.103	---	0.31
135	11.25	0.63	0.415	0.103	---	0.31
136	11.33	0.63	0.415	0.102	---	0.31
137	11.42	0.63	0.415	0.102	---	0.31
138	11.50	0.63	0.415	0.101	---	0.31
139	11.58	0.57	0.371	0.101	---	0.27
140	11.67	0.57	0.371	0.100	---	0.27
141	11.75	0.57	0.371	0.100	---	0.27
142	11.83	0.60	0.393	0.099	---	0.29
143	11.92	0.60	0.393	0.099	---	0.29
144	12.00	0.60	0.393	0.098	---	0.29
145	12.08	0.83	0.546	0.098	---	0.45
146	12.17	0.83	0.546	0.097	---	0.45
147	12.25	0.83	0.546	0.097	---	0.45
148	12.33	0.87	0.568	0.096	---	0.47
149	12.42	0.87	0.568	0.096	---	0.47
150	12.50	0.87	0.568	0.095	---	0.47
151	12.58	0.93	0.611	0.095	---	0.52
152	12.67	0.93	0.611	0.094	---	0.52
153	12.75	0.93	0.611	0.094	---	0.52
154	12.83	0.97	0.633	0.093	---	0.54
155	12.92	0.97	0.633	0.093	---	0.54
156	13.00	0.97	0.633	0.093	---	0.54
157	13.08	1.13	0.742	0.092	---	0.65
158	13.17	1.13	0.742	0.092	---	0.65
159	13.25	1.13	0.742	0.091	---	0.65
160	13.33	1.13	0.742	0.091	---	0.65
161	13.42	1.13	0.742	0.090	---	0.65
162	13.50	1.13	0.742	0.090	---	0.65
163	13.58	0.77	0.502	0.089	---	0.41
164	13.67	0.77	0.502	0.089	---	0.41
165	13.75	0.77	0.502	0.088	---	0.41
166	13.83	0.77	0.502	0.088	---	0.41
167	13.92	0.77	0.502	0.088	---	0.41
168	14.00	0.77	0.502	0.087	---	0.42
169	14.08	0.90	0.590	0.087	---	0.50
170	14.17	0.90	0.590	0.086	---	0.50
171	14.25	0.90	0.590	0.086	---	0.50
172	14.33	0.87	0.568	0.085	---	0.48
173	14.42	0.87	0.568	0.085	---	0.48
174	14.50	0.87	0.568	0.084	---	0.48
175	14.58	0.87	0.568	0.084	---	0.48
176	14.67	0.87	0.568	0.084	---	0.48
177	14.75	0.87	0.568	0.083	---	0.48
178	14.83	0.83	0.546	0.083	---	0.46
179	14.92	0.83	0.546	0.082	---	0.46
180	15.00	0.83	0.546	0.082	---	0.46
181	15.08	0.80	0.524	0.081	---	0.44
182	15.17	0.80	0.524	0.081	---	0.44
183	15.25	0.80	0.524	0.081	---	0.44
184	15.33	0.77	0.502	0.080	---	0.42
185	15.42	0.77	0.502	0.080	---	0.42
186	15.50	0.77	0.502	0.079	---	0.42
187	15.58	0.63	0.415	0.079	---	0.34
188	15.67	0.63	0.415	0.079	---	0.34
189	15.75	0.63	0.415	0.078	---	0.34
190	15.83	0.63	0.415	0.078	---	0.34
191	15.92	0.63	0.415	0.077	---	0.34
192	16.00	0.63	0.415	0.077	---	0.34
193	16.08	0.13	0.087	0.077	---	0.01
194	16.17	0.13	0.087	0.076	---	0.01
195	16.25	0.13	0.087	0.076	---	0.01
196	16.33	0.13	0.087	0.075	---	0.01
197	16.42	0.13	0.087	0.075	---	0.01
198	16.50	0.13	0.087	0.075	---	0.01
199	16.58	0.10	0.066	0.074	0.012	0.05
200	16.67	0.10	0.066	0.074	0.012	0.05
201	16.75	0.10	0.066	0.074	0.012	0.05
202	16.83	0.10	0.066	0.073	0.012	0.05
203	16.92	0.10	0.066	0.073	0.012	0.05
204	17.00	0.10	0.066	0.072	0.012	0.05
205	17.08	0.17	0.109	0.072	---	0.04
206	17.17	0.17	0.109	0.072	---	0.04
207	17.25	0.17	0.109	0.071	---	0.04
208	17.33	0.17	0.109	0.071	---	0.04
209	17.42	0.17	0.109	0.071	---	0.04
210	17.50	0.17	0.109	0.070	---	0.04
211	17.58	0.17	0.109	0.070	---	0.04

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212	17.67	0.17	0.109	0.070	---	0.04
213	17.75	0.17	0.109	0.069	---	0.04
214	17.83	0.13	0.087	0.069	---	0.02
215	17.92	0.13	0.087	0.069	---	0.02
216	18.00	0.13	0.087	0.068	---	0.02
217	18.08	0.13	0.087	0.068	---	0.02
218	18.17	0.13	0.087	0.067	---	0.02
219	18.25	0.13	0.087	0.067	---	0.02
220	18.33	0.13	0.087	0.067	---	0.02
221	18.42	0.13	0.087	0.067	---	0.02
222	18.50	0.13	0.087	0.066	---	0.02
223	18.58	0.10	0.066	0.066	0.012	0.05
224	18.67	0.10	0.066	0.066	0.012	0.05
225	18.75	0.10	0.066	0.065	---	0.00
226	18.83	0.07	0.044	0.065	0.008	0.04
227	18.92	0.07	0.044	0.065	0.008	0.04
228	19.00	0.07	0.044	0.064	0.008	0.04
229	19.08	0.10	0.066	0.064	---	0.00
230	19.17	0.10	0.066	0.064	---	0.00
231	19.25	0.10	0.066	0.063	---	0.00
232	19.33	0.13	0.087	0.063	---	0.02
233	19.42	0.13	0.087	0.063	---	0.02
234	19.50	0.13	0.087	0.063	---	0.02
235	19.58	0.10	0.066	0.062	---	0.00
236	19.67	0.10	0.066	0.062	---	0.00
237	19.75	0.10	0.066	0.062	---	0.00
238	19.83	0.07	0.044	0.061	0.008	0.04
239	19.92	0.07	0.044	0.061	0.008	0.04
240	20.00	0.07	0.044	0.061	0.008	0.04
241	20.08	0.10	0.066	0.061	---	0.00
242	20.17	0.10	0.066	0.060	---	0.01
243	20.25	0.10	0.066	0.060	---	0.01
244	20.33	0.10	0.066	0.060	---	0.01
245	20.42	0.10	0.066	0.060	---	0.01
246	20.50	0.10	0.066	0.059	---	0.01
247	20.58	0.10	0.066	0.059	---	0.01
248	20.67	0.10	0.066	0.059	---	0.01
249	20.75	0.10	0.066	0.059	---	0.01
250	20.83	0.07	0.044	0.058	0.008	0.04
251	20.92	0.07	0.044	0.058	0.008	0.04
252	21.00	0.07	0.044	0.058	0.008	0.04
253	21.08	0.10	0.066	0.058	---	0.01
254	21.17	0.10	0.066	0.057	---	0.01
255	21.25	0.10	0.066	0.057	---	0.01
256	21.33	0.07	0.044	0.057	0.008	0.04
257	21.42	0.07	0.044	0.057	0.008	0.04
258	21.50	0.07	0.044	0.057	0.008	0.04
259	21.58	0.10	0.066	0.056	---	0.01
260	21.67	0.10	0.066	0.056	---	0.01
261	21.75	0.10	0.066	0.056	---	0.01
262	21.83	0.07	0.044	0.056	0.008	0.04
263	21.92	0.07	0.044	0.056	0.008	0.04
264	22.00	0.07	0.044	0.055	0.008	0.04
265	22.08	0.10	0.066	0.055	---	0.01
266	22.17	0.10	0.066	0.055	---	0.01
267	22.25	0.10	0.066	0.055	---	0.01
268	22.33	0.07	0.044	0.055	0.008	0.04
269	22.42	0.07	0.044	0.054	0.008	0.04
270	22.50	0.07	0.044	0.054	0.008	0.04
271	22.58	0.07	0.044	0.054	0.008	0.04
272	22.67	0.07	0.044	0.054	0.008	0.04
273	22.75	0.07	0.044	0.054	0.008	0.04
274	22.83	0.07	0.044	0.054	0.008	0.04
275	22.92	0.07	0.044	0.054	0.008	0.04
276	23.00	0.07	0.044	0.053	0.008	0.04
277	23.08	0.07	0.044	0.053	0.008	0.04
278	23.17	0.07	0.044	0.053	0.008	0.04
279	23.25	0.07	0.044	0.053	0.008	0.04
280	23.33	0.07	0.044	0.053	0.008	0.04
281	23.42	0.07	0.044	0.053	0.008	0.04
282	23.50	0.07	0.044	0.053	0.008	0.04
283	23.58	0.07	0.044	0.053	0.008	0.04
284	23.67	0.07	0.044	0.053	0.008	0.04
285	23.75	0.07	0.044	0.053	0.008	0.04
286	23.83	0.07	0.044	0.052	0.008	0.04
287	23.92	0.07	0.044	0.052	0.008	0.04
288	24.00	0.07	0.044	0.052	0.008	0.04
Sum =		100.0			Sum =	45.6

Flood volume = Effective rainfall 3.80(In)

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times area 78.0(Ac.)/[(In)/(Ft.)] = 24.7(Ac.Ft)
Total soil loss = 1.66(In)
Total soil loss = 10.757(Ac.Ft)
Total rainfall = 5.46(In)
Flood volume = 1076336.9 Cubic Feet
Total soil loss = 468579.4 Cubic Feet

Peak flow rate of this hydrograph = 50.940(CFS)

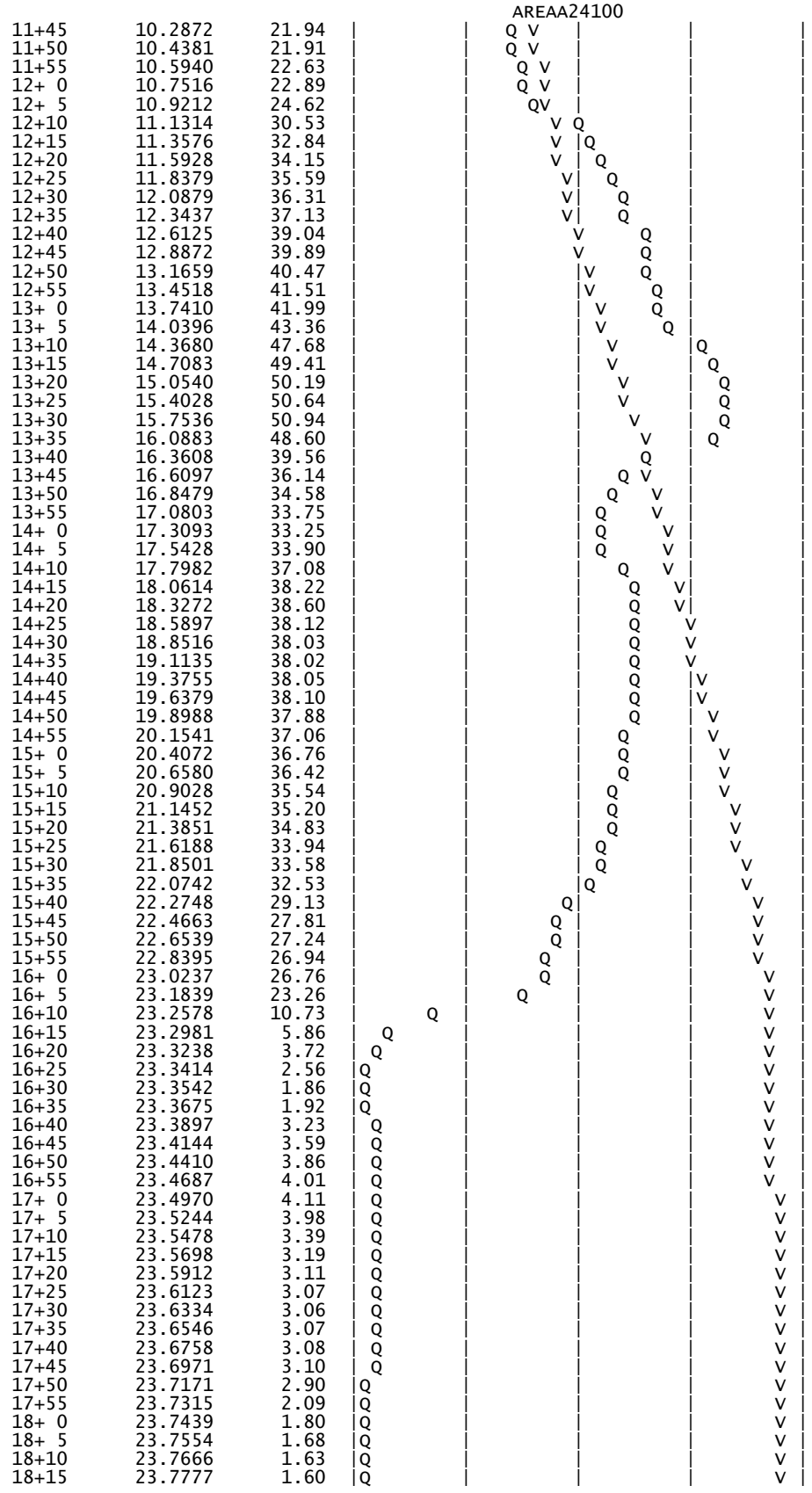
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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	15.0	30.0	45.0	60.0
0+ 5	0.0026	0.37	Q				
0+10	0.0146	1.74	VQ				
0+15	0.0302	2.27	VQ				
0+20	0.0487	2.69	VQ				
0+25	0.0729	3.51	V Q				
0+30	0.0994	3.85	V Q				
0+35	0.1270	4.01	V Q				
0+40	0.1553	4.11	V Q				
0+45	0.1840	4.17	V Q				
0+50	0.2142	4.38	V Q				
0+55	0.2492	5.08	V Q				
1+ 0	0.2861	5.36	V Q				
1+ 5	0.3225	5.29	V Q				
1+10	0.3547	4.67	V Q				
1+15	0.3853	4.45	V Q				
1+20	0.4152	4.35	V Q				
1+25	0.4448	4.30	V Q				
1+30	0.4743	4.27	V Q				
1+35	0.5035	4.25	V Q				
1+40	0.5327	4.24	V Q				
1+45	0.5618	4.22	V Q				
1+50	0.5922	4.41	V Q				
1+55	0.6272	5.09	V Q				
2+ 0	0.6641	5.36	V Q				
2+ 5	0.7018	5.48	V Q				
2+10	0.7400	5.54	V Q				
2+15	0.7784	5.58	V Q				
2+20	0.8170	5.60	V Q				
2+25	0.8557	5.62	V Q				
2+30	0.8945	5.63	V Q				
2+35	0.9345	5.82	V Q				
2+40	0.9793	6.50	V Q				
2+45	1.0259	6.76	V Q				
2+50	1.0733	6.88	V Q				
2+55	1.1212	6.95	V Q				
3+ 0	1.1693	6.99	V Q				
3+ 5	1.2176	7.01	V Q				
3+10	1.2659	7.02	V Q				
3+15	1.3144	7.04	V Q				
3+20	1.3629	7.04	V Q				
3+25	1.4113	7.04	V Q				
3+30	1.4598	7.04	V Q				
3+35	1.5083	7.04	V Q				
3+40	1.5568	7.04	V Q				
3+45	1.6052	7.04	V Q				
3+50	1.6550	7.22	V Q				
3+55	1.7094	7.91	V Q				
4+ 0	1.7657	8.17	V Q				
4+ 5	1.8228	8.29	V Q				
4+10	1.8804	8.36	V Q				
4+15	1.9382	8.40	V Q				
4+20	1.9886	7.32	VQ				
4+25	2.0114	3.31	QV				
4+30	2.0238	1.80	Q V				
4+35	2.0316	1.14	Q V				
4+40	2.0372	0.80	Q V				
4+45	2.0414	0.62	Q V				
4+50	2.0467	0.76	Q V				
4+55	2.0574	1.56	Q V				
5+ 0	2.0702	1.85	Q V				
5+ 5	2.0898	2.86	Q V				

5+10	2.1309	5.96	Q				
5+15	2.1803	7.17	VQ				
5+20	2.2264	6.70	VQ				
5+25	2.2490	3.28	QV				
5+30	2.2632	2.06	Q V				
5+35	2.2755	1.78	Q V				
5+40	2.2917	2.36	Q V				
5+45	2.3094	2.57	Q V				
5+50	2.3277	2.65	Q V				
5+55	2.3462	2.69	Q V				
6+ 0	2.3649	2.71	Q V				
6+ 5	2.3857	3.02	QV				
6+10	2.4127	3.92	QV				
6+15	2.4423	4.30	QV				
6+20	2.4733	4.50	Q V				
6+25	2.5051	4.62	QV				
6+30	2.5377	4.72	QV				
6+35	2.5723	5.02	QV				
6+40	2.6130	5.92	QV				
6+45	2.6565	6.31	Q				
6+50	2.7012	6.50	Q				
6+55	2.7469	6.63	Q				
7+ 0	2.7932	6.72	Q				
7+ 5	2.8400	6.80	Q				
7+10	2.8872	6.86	Q				
7+15	2.9349	6.92	Q				
7+20	2.9845	7.20	Q				
7+25	3.0401	8.08	VQ				
7+30	3.0983	8.45	Q				
7+35	3.1594	8.87	Q				
7+40	3.2270	9.82	VQ				
7+45	3.2975	10.24	VQ				
7+50	3.3711	10.69	V Q				
7+55	3.4514	11.66	V Q				
8+ 0	3.5347	12.09	V Q				
8+ 5	3.6227	12.77	V Q				
8+10	3.7230	14.58	V Q				
8+15	3.8286	15.33	V Q				
8+20	3.9367	15.69	V Q				
8+25	4.0463	15.91	V Q				
8+30	4.1570	16.07	V Q				
8+35	4.2699	16.40	V Q				
8+40	4.3891	17.31	V Q				
8+45	4.5111	17.71	V Q				
8+50	4.6359	18.13	V Q				
8+55	4.7673	19.08	V Q				
9+ 0	4.9016	19.50	V Q				
9+ 5	5.0405	20.17	V Q				
9+10	5.1919	21.98	V Q				
9+15	5.3484	22.73	V Q				
9+20	5.5090	23.32	V Q				
9+25	5.6768	24.37	V Q				
9+30	5.8479	24.85	V Q				
9+35	6.0223	25.32	V Q				
9+40	6.2035	26.31	V Q				
9+45	6.3877	26.75	V Q				
9+50	6.5751	27.20	V Q				
9+55	6.7691	28.17	V Q				
10+ 0	6.9660	28.60	V Q				
10+ 5	7.1535	27.22	V Q				
10+10	7.3017	21.52	V Q				
10+15	7.4351	19.38	Q				
10+20	7.5621	18.43	Q				
10+25	7.6856	17.94	QV				
10+30	7.8072	17.66	QV				
10+35	7.9357	18.65	Q				
10+40	8.0923	22.74	V Q				
10+45	8.2594	24.27	V Q				
10+50	8.4318	25.03	V Q				
10+55	8.6072	25.47	V Q				
11+ 0	8.7846	25.75	V Q				
11+ 5	8.9616	25.70	V Q				
11+10	9.1337	24.99	V Q				
11+15	9.3045	24.80	VQ				
11+20	9.4746	24.69	VQ				
11+25	9.6443	24.65	VQ				
11+30	9.8141	24.64	VQ				
11+35	9.9808	24.20	Q				
11+40	10.1361	22.56	QV				



11+45	10.2872	21.94	
11+50	10.4381	21.91	
11+55	10.5940	22.63	
12+ 0	10.7516	22.89	
12+ 5	10.9212	24.62	
12+10	11.1314	30.53	
12+15	11.3576	32.84	
12+20	11.5928	34.15	
12+25	11.8379	35.59	
12+30	12.0879	36.31	
12+35	12.3437	37.13	
12+40	12.6125	39.04	
12+45	12.8872	39.89	
12+50	13.1659	40.47	
12+55	13.4518	41.51	
13+ 0	13.7410	41.99	
13+ 5	14.0396	43.36	
13+10	14.3680	47.68	
13+15	14.7083	49.41	
13+20	15.0540	50.19	
13+25	15.4028	50.64	
13+30	15.7536	50.94	
13+35	16.0883	48.60	
13+40	16.3608	39.56	
13+45	16.6097	36.14	
13+50	16.8479	34.58	
13+55	17.0803	33.75	
14+ 0	17.3093	33.25	
14+ 5	17.5428	33.90	
14+10	17.7982	37.08	
14+15	18.0614	38.22	
14+20	18.3272	38.60	
14+25	18.5897	38.12	
14+30	18.8516	38.03	
14+35	19.1135	38.02	
14+40	19.3755	38.05	
14+45	19.6379	38.10	
14+50	19.8988	37.88	
14+55	20.1541	37.06	
15+ 0	20.4072	36.76	
15+ 5	20.6580	36.42	
15+10	20.9028	35.54	
15+15	21.1452	35.20	
15+20	21.3851	34.83	
15+25	21.6188	33.94	
15+30	21.8501	33.58	
15+35	22.0742	32.53	
15+40	22.2748	29.13	
15+45	22.4663	27.81	
15+50	22.6539	27.24	
15+55	22.8395	26.94	
16+ 0	23.0237	26.76	
16+ 5	23.1839	23.26	
16+10	23.2578	10.73	
16+15	23.2981	5.86	
16+20	23.3238	3.72	
16+25	23.3414	2.56	
16+30	23.3542	1.86	
16+35	23.3675	1.92	
16+40	23.3897	3.23	
16+45	23.4144	3.59	
16+50	23.4410	3.86	
16+55	23.4687	4.01	
17+ 0	23.4970	4.11	
17+ 5	23.5244	3.98	
17+10	23.5478	3.39	
17+15	23.5698	3.19	
17+20	23.5912	3.11	
17+25	23.6123	3.07	
17+30	23.6334	3.06	
17+35	23.6546	3.07	
17+40	23.6758	3.08	
17+45	23.6971	3.10	
17+50	23.7171	2.90	
17+55	23.7315	2.09	
18+ 0	23.7439	1.80	
18+ 5	23.7554	1.68	
18+10	23.7666	1.63	
18+15	23.7777	1.60	

18+20	23.7887	1.60	|Q	|	|	|	V |
18+25	23.7998	1.61	|Q	|	|	|	V |
18+30	23.8109	1.62	|Q	|	|	|	V |
18+35	23.8246	1.98	|Q	|	|	|	V |
18+40	23.8469	3.23	| Q	|	|	|	V |
18+45	23.8686	3.16	| Q	|	|	|	V |
18+50	23.8804	1.71	|Q	|	|	|	V |
18+55	23.8970	2.40	|Q	|	|	|	V |
19+ 0	23.9152	2.64	|Q	|	|	|	V |
19+ 5	23.9315	2.37	|Q	|	|	|	V |
19+10	23.9390	1.10	Q	|	|	|	V |
19+15	23.9434	0.64	Q	|	|	|	V |
19+20	23.9480	0.66	Q	|	|	|	V |
19+25	23.9575	1.38	Q	|	|	|	V |
19+30	23.9691	1.68	|Q	|	|	|	V |
19+35	23.9799	1.57	|Q	|	|	|	V |
19+40	23.9855	0.81	Q	|	|	|	V |
19+45	23.9892	0.54	Q	|	|	|	V |
19+50	23.9945	0.77	Q	|	|	|	V |
19+55	24.0079	1.94	|Q	|	|	|	V |
20+ 0	24.0243	2.38	|Q	|	|	|	V |
20+ 5	24.0398	2.25	|Q	|	|	|	V |
20+10	24.0478	1.17	Q	|	|	|	V |
20+15	24.0532	0.78	Q	|	|	|	V |
20+20	24.0576	0.64	Q	|	|	|	V |
20+25	24.0615	0.57	Q	|	|	|	V |
20+30	24.0653	0.54	Q	|	|	|	V |
20+35	24.0689	0.52	Q	|	|	|	V |
20+40	24.0724	0.52	Q	|	|	|	V |
20+45	24.0760	0.51	Q	|	|	|	V |
20+50	24.0817	0.83	Q	|	|	|	V |
20+55	24.0951	1.94	|Q	|	|	|	V|
21+ 0	24.1114	2.37	|Q	|	|	|	V|
21+ 5	24.1270	2.27	|Q	|	|	|	V|
21+10	24.1361	1.32	Q	|	|	|	V|
21+15	24.1428	0.98	Q	|	|	|	V|
21+20	24.1506	1.13	Q	|	|	|	V|
21+25	24.1651	2.10	|Q	|	|	|	V|
21+30	24.1821	2.47	|Q	|	|	|	V|
21+35	24.1982	2.34	|Q	|	|	|	V|
21+40	24.2079	1.41	Q	|	|	|	V|
21+45	24.2153	1.06	Q	|	|	|	V|
21+50	24.2236	1.21	Q	|	|	|	V|
21+55	24.2383	2.14	|Q	|	|	|	V|
22+ 0	24.2554	2.49	|Q	|	|	|	V|
22+ 5	24.2717	2.36	|Q	|	|	|	V|
22+10	24.2818	1.47	Q	|	|	|	V|
22+15	24.2896	1.14	Q	|	|	|	V|
22+20	24.2984	1.27	Q	|	|	|	V|
22+25	24.3133	2.16	|Q	|	|	|	V|
22+30	24.3305	2.50	|Q	|	|	|	V|
22+35	24.3487	2.64	|Q	|	|	|	V|
22+40	24.3674	2.71	|Q	|	|	|	V|
22+45	24.3863	2.74	|Q	|	|	|	V|
22+50	24.4054	2.78	|Q	|	|	|	V|
22+55	24.4246	2.80	|Q	|	|	|	V|
23+ 0	24.4440	2.82	|Q	|	|	|	V|
23+ 5	24.4634	2.82	|Q	|	|	|	V|
23+10	24.4828	2.82	|Q	|	|	|	V|
23+15	24.5022	2.82	|Q	|	|	|	V|
23+20	24.5216	2.82	|Q	|	|	|	V|
23+25	24.5410	2.82	|Q	|	|	|	V|
23+30	24.5603	2.82	|Q	|	|	|	V|
23+35	24.5797	2.82	|Q	|	|	|	V|
23+40	24.5991	2.82	|Q	|	|	|	V|
23+45	24.6185	2.82	|Q	|	|	|	V|
23+50	24.6379	2.82	|Q	|	|	|	V|
23+55	24.6573	2.82	|Q	|	|	|	V|
24+ 0	24.6767	2.82	|Q	|	|	|	V|
24+ 5	24.6935	2.44	|Q	|	|	|	V|
24+10	24.7009	1.08	Q	|	|	|	V|
24+15	24.7047	0.55	Q	|	|	|	V|
24+20	24.7068	0.31	Q	|	|	|	V|
24+25	24.7080	0.18	Q	|	|	|	V|
24+30	24.7087	0.10	Q	|	|	|	V|
24+35	24.7091	0.06	Q	|	|	|	V|
24+40	24.7093	0.03	Q	|	|	|	V

APPENDIX D: OFF-SITE EXISTING CONDITION HYDROLOGY CALCULATIONS (RATIONAL TABLING METHOD) TRIBUTARY TO THE PROJECT SITE

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 02/06/17 File:AREAA.out

TPM NO. 37235
OFF-SITE
AREA "A"
100YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 100.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity = 1.600(In/Hr)
Slope of intensity duration curve = 0.5800

++
Process from Point/Station 100.000 to Point/Station 101.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 1000.000(Ft.)
Top (of initial area) elevation = 1129.000(Ft.)
Bottom (of initial area) elevation = 1104.000(Ft.)
Difference in elevation = 25.000(Ft.)
Slope = 0.02500 s(percent)= 2.50
TC = k(0.530)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 17.567 min.
Rainfall intensity = 3.262(In/Hr) for a 100.0 year storm
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.749
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 67.00
Pervious area fraction = 1.000; Impervious fraction = 0.000
Initial subarea runoff = 10.021(CFS)
Total initial stream area = 4.100(Ac.)
Pervious area fraction = 1.000

++
Process from Point/Station 101.000 to Point/Station 102.000
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****

Estimated mean flow rate at midpoint of channel = 25.578(CFS)
Depth of flow = 0.438(Ft.), Average velocity = 2.669(Ft/s)
******* Irregular Channel Data ***********

Information entered for subchannel number 1 :

Point number	'X' coordinate	'Y' coordinate
1	0.00	2.00
2	100.00	0.00
3	200.00	2.00

Manning's 'N' friction factor = 0.030

```
------------------------------------------------------------------
Sub-Channel flow  =     25.578(CFS)
  '     '         flow top width =     43.778(Ft.)
  '     '    velocity=    2.669(Ft/s)
  '     '         area =      9.582(Sq.Ft)
  '     '         Froude number =     1.005

Upstream point elevation =  1104.000(Ft.)
Downstream point elevation =  1080.000(Ft.)
Flow length =  1090.000(Ft.)
Travel time  =    6.81 min.
Time of concentration =   24.37 min.
Depth of flow =   0.438(Ft.)
Average velocity =   2.669(Ft/s)
Total irregular channel flow =    25.578(CFS)
Irregular channel normal depth above invert elev. =   0.438(Ft.)
Average velocity of channel(s) =   2.669(Ft/s)
 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.724
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  67.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      2.698(In/Hr) for a   100.0 year storm
Subarea runoff =     24.860(CFS) for     12.730(Ac.)
Total runoff =     34.881(CFS)  Total area =      16.830(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      102.000 to Point/Station      103.000
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****
__________________________________________________________________________
Estimated mean flow rate at midpoint of channel =     59.927(CFS)
Depth of flow =   0.194(Ft.), Average velocity =   2.415(Ft/s)
       ******* Irregular Channel Data ***********
------------------------------------------------------------------
Information entered for subchannel number 1 :
Point number      'X' coordinate     'Y' coordinate
        1             0.00              1.00
        2            40.00              0.00
        3           160.00              0.00
        4           200.00              1.00
Manning's 'N' friction factor =   0.030
------------------------------------------------------------------
Sub-Channel flow  =     59.928(CFS)
  '     '         flow top width =    135.539(Ft.)
  '     '    velocity=    2.415(Ft/s)
  '     '         area =     24.818(Sq.Ft)
  '     '         Froude number =     0.994

Upstream point elevation =  1080.000(Ft.)
Downstream point elevation =  1060.000(Ft.)
Flow length =   875.000(Ft.)
Travel time  =    6.04 min.
Time of concentration =   30.41 min.
Depth of flow =   0.194(Ft.)
Average velocity =   2.415(Ft/s)
Total irregular channel flow =    59.927(CFS)
Irregular channel normal depth above invert elev. =   0.194(Ft.)
Average velocity of channel(s) =   2.415(Ft/s)
 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.705
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  67.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      2.373(In/Hr) for a   100.0 year storm
Subarea runoff =     40.429(CFS) for     24.170(Ac.)
Total runoff =     75.310(CFS)  Total area =      41.000(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      103.000 to Point/Station      104.000
```

```
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****
____________________________________________________________________
Estimated mean flow rate at midpoint of channel =    146.138(CFS)
Depth of flow =   1.044(Ft.), Average velocity =   4.472(Ft/s)
       ******* Irregular Channel Data ***********
--------------------------------------------------------------------
Information entered for subchannel number 1 :
Point number      'X' coordinate     'Y' coordinate
        1             0.00              2.00
        2            60.00              0.00
        3           120.00              2.00
Manning's 'N' friction factor =   0.030
--------------------------------------------------------------------
Sub-Channel flow  =    146.138(CFS)
  '     '         flow top width =     62.620(Ft.)
  '     '    velocity=    4.472(Ft/s)
  '     '        area =     32.677(Sq.Ft)
  '     '        Froude number =     1.091

Upstream point elevation =  1060.000(Ft.)
Downstream point elevation =  1000.000(Ft.)
Flow length =  3090.000(Ft.)
Travel time  =   11.52 min.
Time of concentration =   41.93 min.
Depth of flow =   1.044(Ft.)
Average velocity =   4.472(Ft/s)
Total irregular channel flow =   146.138(CFS)
Irregular channel normal depth above invert elev. =   1.044(Ft.)
Average velocity of channel(s) =   4.472(Ft/s)
 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.675
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  67.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      1.970(In/Hr) for a   100.0 year storm
Subarea runoff =    102.528(CFS) for     77.120(Ac.)
Total runoff =    177.838(CFS)  Total area =     118.120(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      104.000 to Point/Station      105.000
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****
____________________________________________________________________
Estimated mean flow rate at midpoint of channel =    225.888(CFS)
Depth of flow =   1.228(Ft.), Average velocity =   4.997(Ft/s)
       ******* Irregular Channel Data ***********
--------------------------------------------------------------------
Information entered for subchannel number 1 :
Point number      'X' coordinate     'Y' coordinate
        1             0.00              2.00
        2            60.00              0.00
        3           120.00              2.00
Manning's 'N' friction factor =   0.030
--------------------------------------------------------------------
Sub-Channel flow  =    225.888(CFS)
  '     '         flow top width =     73.653(Ft.)
  '     '    velocity=    4.997(Ft/s)
  '     '        area =     45.207(Sq.Ft)
  '     '        Froude number =     1.124

Upstream point elevation =  1000.000(Ft.)
Downstream point elevation =   946.700(Ft.)
Flow length =  2730.000(Ft.)
Travel time  =    9.11 min.
Time of concentration =   51.03 min.
Depth of flow =   1.228(Ft.)
Average velocity =   4.997(Ft/s)
Total irregular channel flow =   225.888(CFS)
Irregular channel normal depth above invert elev. =   1.228(Ft.)
Average velocity of channel(s) =   4.997(Ft/s)
 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.655
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
```

Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 67.00
Pervious area fraction = 1.000; Impervious fraction = 0.000
Rainfall intensity = 1.757(In/Hr) for a 100.0 year storm
Subarea runoff = 73.498(CFS) for 63.830(Ac.)
Total runoff = 251.336(CFS) Total area = 181.950(Ac.)
End of computations, total study area = 181.95 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 1.000
Area averaged RI index number = 67.0

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 02/06/17 File:AREAB.out

TPM NO. 37235
OFF-SITE
AREA "B"
100YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 100.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity = 1.600(In/Hr)
Slope of intensity duration curve = 0.5800

++
Process from Point/Station 200.000 to Point/Station 201.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 795.000(Ft.)
Top (of initial area) elevation = 974.000(Ft.)
Bottom (of initial area) elevation = 956.000(Ft.)
Difference in elevation = 18.000(Ft.)
Slope = 0.02264 s(percent)= 2.26
TC = k(0.530)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 16.347 min.
Rainfall intensity = 3.401(In/Hr) for a 100.0 year storm
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.754
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 67.00
Pervious area fraction = 1.000; Impervious fraction = 0.000
Initial subarea runoff = 9.776(CFS)
Total initial stream area = 3.810(Ac.)
Pervious area fraction = 1.000

++
Process from Point/Station 201.000 to Point/Station 202.000
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****

Estimated mean flow rate at midpoint of channel = 26.197(CFS)
Depth of flow = 0.442(Ft.), Average velocity = 2.687(Ft/s)
******* Irregular Channel Data ***********

Information entered for subchannel number 1 :

Point number	'X' coordinate	'Y' coordinate
1	0.00	2.00
2	100.00	0.00
3	200.00	2.00

Manning's 'N' friction factor = 0.030

```
------------------------------------------------------------------------
Sub-Channel flow  =     26.197(CFS)
  '     '         flow top width =     44.162(Ft.)
  '     '    velocity=    2.687(Ft/s)
  '     '         area =      9.751(Sq.Ft)
  '     '         Froude number =     1.008

Upstream point elevation =   956.000(Ft.)
Downstream point elevation =   942.000(Ft.)
Flow length =   635.000(Ft.)
Travel time  =    3.94 min.
Time of concentration =   20.29 min.
Depth of flow =   0.442(Ft.)
Average velocity =   2.687(Ft/s)
Total irregular channel flow =    26.197(CFS)
Irregular channel normal depth above invert elev. =   0.442(Ft.)
Average velocity of channel(s) =   2.687(Ft/s)
 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.738
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  67.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      3.001(In/Hr) for a   100.0 year storm
Subarea runoff =     28.365(CFS) for     12.800(Ac.)
Total runoff =     38.140(CFS)  Total area =      16.610(Ac.)
End of computations, total study area =           16.61 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 1.000
Area averaged RI index number =  67.0
```

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 02/06/17 File:AREAC.out

TPM NO. 37235
OFF-SITE
AREA "C"
100YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 100.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity = 1.600(In/Hr)
Slope of intensity duration curve = 0.5800

++
Process from Point/Station 300.000 to Point/Station 301.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 1000.000(Ft.)
Top (of initial area) elevation = 1009.000(Ft.)
Bottom (of initial area) elevation = 988.000(Ft.)
Difference in elevation = 21.000(Ft.)
Slope = 0.02100 s(percent)= 2.10
TC = k(0.530)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 18.190 min.
Rainfall intensity = 3.197(In/Hr) for a 100.0 year storm
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.747
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 67.00
Pervious area fraction = 1.000; Impervious fraction = 0.000
Initial subarea runoff = 20.289(CFS)
Total initial stream area = 8.500(Ac.)
Pervious area fraction = 1.000

++
Process from Point/Station 301.000 to Point/Station 302.000
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****

Estimated mean flow rate at midpoint of channel = 43.288(CFS)
Depth of flow = 0.653(Ft.), Average velocity = 3.124(Ft/s)
******* Irregular Channel Data ***********

Information entered for subchannel number 1 :

Point number	'X' coordinate	'Y' coordinate
1	0.00	2.00
2	65.00	0.00
3	130.00	2.00

Manning's 'N' friction factor = 0.030

```
------------------------------------------------------------------
Sub-Channel flow  =     43.288(CFS)
  '     '         flow top width =     42.439(Ft.)
  '     '    velocity=    3.124(Ft/s)
  '     '         area =     13.854(Sq.Ft)
  '     '         Froude number =     0.964

Upstream point elevation =   988.000(Ft.)
Downstream point elevation =   964.000(Ft.)
Flow length =  1355.000(Ft.)
Travel time  =    7.23 min.
Time of concentration =   25.42 min.
Depth of flow =   0.653(Ft.)
Average velocity =   3.124(Ft/s)
Total irregular channel flow =    43.288(CFS)
Irregular channel normal depth above invert elev. =   0.653(Ft.)
Average velocity of channel(s) =   3.124(Ft/s)
 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.720
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  67.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      2.633(In/Hr) for a   100.0 year storm
Subarea runoff =     36.550(CFS) for     19.270(Ac.)
Total runoff =     56.839(CFS)  Total area =      27.770(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      302.000 to Point/Station      303.000
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****
________________________________________________________________________
Estimated mean flow rate at midpoint of channel =     66.408(CFS)
Depth of flow =   0.950(Ft.), Average velocity =   4.208(Ft/s)
       ******* Irregular Channel Data ***********
------------------------------------------------------------------
Information entered for subchannel number 1 :
Point number      'X' coordinate     'Y' coordinate
        1              0.00              4.00
        2             70.00              0.00
        3            140.00              4.00
Manning's 'N' friction factor =   0.030
------------------------------------------------------------------
Sub-Channel flow  =     66.408(CFS)
  '     '         flow top width =     33.238(Ft.)
  '     '    velocity=    4.208(Ft/s)
  '     '         area =     15.782(Sq.Ft)
  '     '         Froude number =     1.076

Upstream point elevation =   964.000(Ft.)
Downstream point elevation =   939.400(Ft.)
Flow length =  1260.000(Ft.)
Travel time  =    4.99 min.
Time of concentration =   30.41 min.
Depth of flow =   0.950(Ft.)
Average velocity =   4.208(Ft/s)
Total irregular channel flow =    66.408(CFS)
Irregular channel normal depth above invert elev. =   0.950(Ft.)
Average velocity of channel(s) =   4.208(Ft/s)
 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.705
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  67.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      2.373(In/Hr) for a   100.0 year storm
Subarea runoff =     15.641(CFS) for      9.350(Ac.)
Total runoff =     72.480(CFS)  Total area =      37.120(Ac.)
End of computations, total study area =           37.12 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 1.000
```

Area averaged RI index number = 67.0

Riverside County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software,(c) 1989 - 2001 Version 6.4
Rational Hydrology Study Date: 02/06/17 File:AREAD.out

TPM NO. 37235
OFF-SITE
AREA "D"
100YR

********* Hydrology Study Control Information **********

English (in-lb) Units used in input data file

TRI-8 Builders - S/N 615

Rational Method Hydrology Program based on
Riverside County Flood Control & Water Conservation District
1978 hydrology manual

Storm event (year) = 100.00 Antecedent Moisture Condition = 2

Standard intensity-duration curves data (Plate D-4.1)
For the [Desert Hot Springs] area used.
10 year storm 10 minute intensity = 2.940(In/Hr)
10 year storm 60 minute intensity = 1.040(In/Hr)
100 year storm 10 minute intensity = 4.520(In/Hr)
100 year storm 60 minute intensity = 1.600(In/Hr)

Storm event year = 100.0
Calculated rainfall intensity data:
1 hour intensity = 1.600(In/Hr)
Slope of intensity duration curve = 0.5800

++
Process from Point/Station 400.000 to Point/Station 401.000
**** INITIAL AREA EVALUATION ****

Initial area flow distance = 960.000(Ft.)
Top (of initial area) elevation = 976.000(Ft.)
Bottom (of initial area) elevation = 956.000(Ft.)
Difference in elevation = 20.000(Ft.)
Slope = 0.02083 s(percent)= 2.08
TC = k(0.530)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 17.924 min.
Rainfall intensity = 3.224(In/Hr) for a 100.0 year storm
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.748
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2) = 67.00
Pervious area fraction = 1.000; Impervious fraction = 0.000
Initial subarea runoff = 11.549(CFS)
Total initial stream area = 4.790(Ac.)
Pervious area fraction = 1.000

++
Process from Point/Station 401.000 to Point/Station 402.000
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****

Estimated mean flow rate at midpoint of channel = 22.241(CFS)
Depth of flow = 0.463(Ft.), Average velocity = 2.771(Ft/s)
******* Irregular Channel Data ***********

Information entered for subchannel number 1 :

Point number	'X' coordinate	'Y' coordinate
1	0.00	2.00
2	75.00	0.00
3	150.00	2.00

Manning's 'N' friction factor = 0.030

```
------------------------------------------------------------------------
Sub-Channel flow  =     22.241(CFS)
  '     '         flow top width =     34.696(Ft.)
  '     '    velocity=    2.771(Ft/s)
  '     '         area =      8.025(Sq.Ft)
  '     '         Froude number =     1.015

Upstream point elevation =   956.000(Ft.)
Downstream point elevation =   936.700(Ft.)
Flow length =   875.000(Ft.)
Travel time  =    5.26 min.
Time of concentration =   23.19 min.
Depth of flow =   0.463(Ft.)
Average velocity =   2.771(Ft/s)
Total irregular channel flow =    22.241(CFS)
Irregular channel normal depth above invert elev. =   0.463(Ft.)
Average velocity of channel(s) =   2.771(Ft/s)
 Adding area flow to channel
UNDEVELOPED (poor cover) subarea
Runoff Coefficient = 0.728
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
RI index for soil(AMC 2)  =  67.00
Pervious area fraction =  1.000; Impervious fraction =  0.000
Rainfall intensity =      2.777(In/Hr) for a   100.0 year storm
Subarea runoff =     17.931(CFS) for      8.870(Ac.)
Total runoff =     29.479(CFS)  Total area =      13.660(Ac.)
End of computations, total study area =           13.66 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.

Area averaged pervious area fraction(Ap) = 1.000
Area averaged RI index number =  67.0
```

APPENDIX E: OFF-SITE EXISTING CONDITION HYDROLOGY CALCULATIONS (UNIT HYDROGRAPH METHOD) FOR MISSION CREEK AND MORONGO WASH

U n i t H y d r o g r a p h A n a l y s i s

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Study date 04/20/17 File: AREAA1100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

TRI-8 Builders - S/N 615

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

MORONGO WASH & MISSION CREEK
EXISTING CONDITION
AREA "A"
100YR-1HR

Drainage Area = 27294.00(Ac.) = 42.647 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 27294.00(Ac.) = 42.647 Sq. Mi.
Length along longest watercourse = 128045.00(Ft.)
Length along longest watercourse measured to centroid = 64610.00(Ft.)
Length along longest watercourse = 24.251 Mi.
Length along longest watercourse measured to centroid = 12.237 Mi.
Difference in elevation = 7588.00(Ft.)
Slope along watercourse = 312.8950 Ft./Mi.
Average Manning's 'N' = 0.038
Lag time = 2.663 Hr.
Lag time = 159.78 Min.
25% of lag time = 39.95 Min.
40% of lag time = 63.91 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
6306.00	0.60	3783.60
1945.00	0.65	1264.25
19043.00	0.70	13330.10

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
2354.00	1.50	3531.00
24940.00	1.60	39904.00

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.673(In)
Area Averaged 100-Year Rainfall = 1.591(In)

Point rain (area averaged) = 1.591(In)
Areal adjustment factor = 81.66 %
Adjusted average point rain = 1.300(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
27294.000	82.32	0.000

Total Area Entered = 27294.00(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
82.3	82.3	0.218	0.000	0.218	1.000	0.218
					Sum (F) =	0.218

Area averaged mean soil loss (F) (In/Hr) = 0.218
Minimum soil loss rate ((In/Hr)) = 0.109
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

Slope of intensity-duration curve for a 1 hour storm =0.5800

U n i t H y d r o g r a p h
DESERT S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	3.129	0.138	37.874
2	0.167	6.258	0.275	75.748
3	0.250	9.388	0.275	75.748
4	0.333	12.517	0.275	75.749
5	0.417	15.646	0.402	110.551
6	0.500	18.775	0.526	144.609
7	0.583	21.905	0.526	144.609
8	0.667	25.034	0.526	144.613
9	0.750	28.163	0.654	179.783
10	0.833	31.292	0.776	213.471
11	0.917	34.422	0.776	213.471
12	1.000	37.551	0.776	213.481
13	1.083	40.680	0.918	252.568
14	1.167	43.809	1.051	289.218
15	1.250	46.939	1.051	289.218
16	1.333	50.068	1.052	289.280
17	1.417	53.197	1.548	425.675
18	1.500	56.326	2.003	550.892
19	1.583	59.456	2.003	550.892
20	1.667	62.585	2.003	551.014
21	1.750	65.714	2.636	725.009
22	1.833	68.843	3.204	881.428
23	1.917	71.973	3.204	881.428
24	2.000	75.102	3.204	881.351
25	2.083	78.231	2.925	804.490
26	2.167	81.360	2.679	736.818
27	2.250	84.490	2.679	736.818
28	2.333	87.619	2.678	736.684
29	2.417	90.748	2.315	636.925
30	2.500	93.877	2.003	550.892
31	2.583	97.007	2.003	550.892
32	2.667	100.136	2.002	550.795
33	2.750	103.265	1.799	494.858
34	2.833	106.394	1.627	447.600
35	2.917	109.524	1.627	447.600
36	3.000	112.653	1.627	447.460
37	3.083	115.782	1.394	383.489
38	3.167	118.911	1.202	330.535
39	3.250	122.041	1.202	330.535
40	3.333	125.170	1.201	330.444
41	3.417	128.299	1.077	296.275
42	3.500	131.428	0.976	268.560
43	3.583	134.558	0.976	268.560
44	3.667	137.687	0.976	268.486
45	3.750	140.816	0.893	245.508
46	3.833	143.945	0.826	227.243
47	3.917	147.075	0.826	227.243
48	4.000	150.204	0.826	227.199
49	4.083	153.333	0.784	215.612
50	4.167	156.462	0.751	206.585
51	4.250	159.592	0.751	206.585
52	4.333	162.721	0.751	206.499
53	4.417	165.850	0.680	187.025
54	4.500	168.979	0.626	172.154
55	4.583	172.109	0.626	172.154
56	4.667	175.238	0.626	172.094
57	4.750	178.367	0.583	160.314
58	4.833	181.496	0.551	151.495
59	4.917	184.626	0.551	151.495
60	5.000	187.755	0.551	151.473
61	5.083	190.884	0.536	147.514
62	5.167	194.013	0.526	144.609
63	5.250	197.143	0.526	144.609

64	5.333	200.272	0.525	144.492
65	5.417	203.401	0.460	126.541
66	5.500	206.530	0.413	113.622
67	5.583	209.659	0.413	113.622
68	5.667	212.789	0.413	113.622
69	5.750	215.918	0.413	113.622
70	5.833	219.047	0.413	113.622
71	5.917	222.176	0.413	113.622
72	6.000	225.306	0.413	113.523
73	6.083	228.435	0.369	101.373
74	6.167	231.564	0.338	92.963
75	6.250	234.693	0.338	92.963
76	6.333	237.823	0.338	92.963
77	6.417	240.952	0.338	92.963
78	6.500	244.081	0.338	92.963
79	6.583	247.210	0.338	92.963
80	6.667	250.340	0.338	92.902
81	6.750	253.469	0.315	86.738
82	6.833	256.598	0.300	82.634
83	6.917	259.727	0.300	82.634
84	7.000	262.857	0.300	82.634
85	7.083	265.986	0.300	82.634
86	7.167	269.115	0.300	82.634
87	7.250	272.244	0.300	82.634
88	7.333	275.374	0.300	82.536
89	7.417	278.503	0.270	74.201
90	7.500	281.632	0.250	68.862
91	7.583	284.761	0.250	68.862
92	7.667	287.891	0.250	68.862
93	7.750	291.020	0.250	68.862
94	7.833	294.149	0.250	68.862
95	7.917	297.278	0.250	68.862
96	8.000	300.408	0.250	68.715
97	8.083	303.537	0.211	58.157
98	8.167	306.666	0.188	51.646
99	8.250	309.795	0.188	51.646
100	8.333	312.925	0.188	51.646
101	8.417	316.054	0.188	51.646
102	8.500	319.183	0.188	51.646
103	8.583	322.312	0.188	51.646
104	8.667	325.442	0.188	51.612
105	8.750	328.571	0.180	49.473
106	8.833	331.700	0.175	48.203
107	8.917	334.829	0.175	48.203
108	9.000	337.959	0.175	48.203
109	9.083	341.088	0.175	48.203
110	9.167	344.217	0.175	48.203
111	9.250	347.346	0.175	48.203
112	9.333	350.476	0.175	48.124
113	9.417	353.605	0.159	43.793
114	9.500	356.734	0.150	41.317
115	9.583	359.863	0.150	41.317
116	9.667	362.993	0.150	41.317
117	9.750	366.122	0.150	41.317
118	9.833	369.251	0.150	41.317
119	9.917	372.380	0.150	41.317
120	10.000	375.510	0.150	41.271
121	10.083	378.639	0.142	39.080
122	10.167	381.768	0.138	37.874
123	10.250	384.897	0.138	37.874
124	10.333	388.027	0.138	37.874
125	10.417	391.156	0.138	37.874
126	10.500	394.285	0.138	37.874
127	10.583	397.414	0.138	37.874
128	10.667	400.544	0.137	37.744
129	10.750	403.673	0.117	32.205
130	10.833	406.802	0.106	29.266
131	10.917	409.931	0.106	29.266
132	11.000	413.061	0.106	29.266
133	11.083	416.190	0.106	29.266
134	11.167	419.319	0.106	29.266
135	11.250	422.448	0.106	29.266
136	11.333	425.577	0.106	29.266
137	11.417	428.707	0.106	29.266
138	11.500	431.836	0.106	29.266
139	11.583	434.965	0.106	29.266
140	11.667	438.094	0.106	29.266
141	11.750	441.224	0.106	29.266
142	11.833	444.353	0.106	29.266

143	11.917	447.482	0.106	29.266
144	12.000	450.611	0.106	29.135
145	12.083	453.741	0.089	24.609
146	12.167	456.870	0.081	22.380
147	12.250	459.999	0.081	22.380
148	12.333	463.128	0.081	22.380
149	12.417	466.258	0.081	22.380
150	12.500	469.387	0.081	22.380
151	12.583	472.516	0.081	22.380
152	12.667	475.645	0.081	22.380
153	12.750	478.775	0.081	22.380
154	12.833	481.904	0.081	22.380
155	12.917	485.033	0.081	22.380
156	13.000	488.162	0.081	22.380
157	13.083	491.292	0.081	22.380
158	13.167	494.421	0.081	22.380
159	13.250	497.550	0.081	22.380
160	13.333	500.679	0.081	22.218
161	13.417	503.809	0.064	17.604
162	13.500	506.938	0.056	15.494
163	13.583	510.067	0.056	15.494
164	13.667	513.196	0.056	15.494
165	13.750	516.326	0.056	15.494
166	13.833	519.455	0.056	15.494
167	13.917	522.584	0.056	15.494
168	14.000	525.713	0.056	15.494
169	14.083	528.843	0.056	15.494
170	14.167	531.972	0.056	15.494
171	14.250	535.101	0.056	15.494
172	14.333	538.230	0.056	15.494
173	14.417	541.360	0.056	15.494
174	14.500	544.489	0.056	15.494
175	14.583	547.618	0.056	15.494
176	14.667	550.747	0.056	15.297
177	14.750	553.877	0.039	10.603
178	14.833	557.006	0.031	8.608
179	14.917	560.135	0.031	8.608
180	15.000	563.264	0.031	8.608
181	15.083	566.394	0.031	8.608
182	15.167	569.523	0.031	8.608
183	15.250	572.652	0.031	8.608
184	15.333	575.781	0.031	8.608
185	15.417	578.911	0.031	8.608
186	15.500	582.040	0.031	8.608
187	15.583	585.169	0.031	8.608
188	15.667	588.298	0.031	8.608
189	15.750	591.428	0.031	8.608
190	15.833	594.557	0.031	8.608
191	15.917	597.686	0.031	8.608
192	16.000	600.815	0.032	8.666
193	16.083	603.945	0.036	9.859
194	16.167	607.074	0.038	10.329
195	16.250	610.203	0.038	10.329
196	16.333	613.332	0.038	10.329
197	16.417	616.462	0.038	10.329
198	16.500	619.591	0.038	10.329
199	16.583	622.720	0.038	10.329
200	16.667	625.849	0.038	10.329
201	16.750	628.978	0.038	10.329
202	16.833	632.108	0.038	10.329
203	16.917	635.237	0.038	10.329
204	17.000	638.366	0.038	10.329
205	17.083	641.495	0.038	10.329
206	17.167	644.625	0.038	10.329
207	17.250	647.754	0.038	10.329
208	17.333	650.883	0.038	10.329
209	17.417	654.012	0.038	10.329
210	17.500	657.142	0.038	10.329
211	17.583	660.271	0.038	10.329
212	17.667	663.400	0.038	10.329
213	17.750	666.529	0.038	10.329
214	17.833	669.659	0.038	10.329
215	17.917	672.788	0.038	10.329
216	18.000	675.917	0.038	10.329
217	18.083	679.046	0.038	10.329
218	18.167	682.176	0.038	10.329
219	18.250	685.305	0.038	10.329
220	18.333	688.434	0.038	10.329
221	18.417	691.563	0.038	10.329

222	18.500	694.693	0.038	10.329
223	18.583	697.822	0.038	10.329
224	18.667	700.951	0.037	10.101
225	18.750	704.080	0.024	6.579
226	18.833	707.210	0.020	5.380
227	18.917	710.339	0.020	5.380
228	19.000	713.468	0.020	5.380
229	19.083	716.597	0.020	5.380
230	19.167	719.727	0.020	5.380
231	19.250	722.856	0.020	5.380
232	19.333	725.985	0.020	5.380
233	19.417	729.114	0.020	5.380
234	19.500	732.244	0.020	5.380
235	19.583	735.373	0.020	5.380
236	19.667	738.502	0.020	5.380
237	19.750	741.631	0.020	5.380
238	19.833	744.761	0.020	5.380
239	19.917	747.890	0.020	5.380
240	20.000	751.019	0.020	5.380
241	20.083	754.148	0.020	5.380
242	20.167	757.278	0.020	5.380
243	20.250	760.407	0.020	5.380
244	20.333	763.536	0.020	5.380
245	20.417	766.665	0.020	5.380
246	20.500	769.795	0.020	5.380
247	20.583	772.924	0.020	5.380
248	20.667	776.053	0.020	5.380
249	20.750	779.182	0.020	5.380
250	20.833	782.312	0.015	4.096
		Sum = 100.000	Sum=	27507.234

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1 0.08	3.60	0.561	0.218	---	0.34
2 0.17	4.20	0.655	0.218	---	0.44
3 0.25	4.40	0.686	0.218	---	0.47
4 0.33	4.60	0.717	0.218	---	0.50
5 0.42	5.00	0.780	0.218	---	0.56
6 0.50	5.60	0.873	0.218	---	0.66
7 0.58	6.40	0.998	0.218	---	0.78
8 0.67	8.10	1.263	0.218	---	1.05
9 0.75	13.10	2.043	0.218	---	1.83
10 0.83	34.50	5.380	0.218	---	5.16
11 0.92	6.70	1.045	0.218	---	0.83
12 1.00	3.80	0.593	0.218	---	0.38
Sum =	100.0			Sum =	13.0

Flood volume = Effective rainfall 1.08(In)
times area 27294.0(Ac.)/[(In)/(Ft.)] = 2461.1(Ac.Ft)
Total soil loss = 0.22(In)
Total soil loss = 494.822(Ac.Ft)
Total rainfall = 1.30(In)
Flood volume = 107205588.1 Cubic Feet
Total soil loss = 21554447.4 Cubic Feet

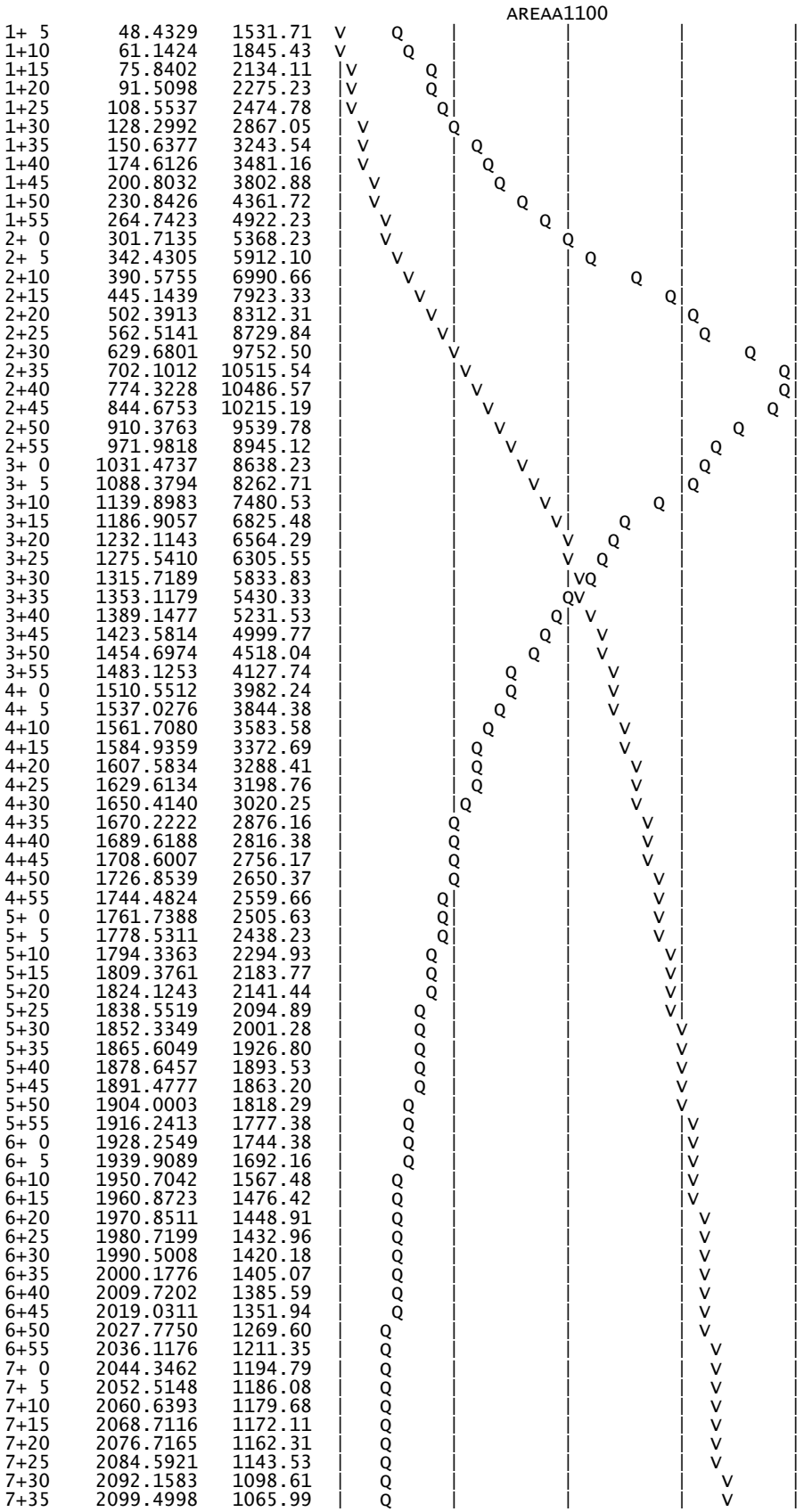
Peak flow rate of this hydrograph = 10515.540(CFS)

++

1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2650.0	5300.0	7950.0	10600.0
0+ 5	0.0897	13.03	Q				
0+10	0.3834	42.64	Q				
0+15	0.9135	76.97	Q				
0+20	1.6963	113.67	Q				
0+25	2.8388	165.89	Q				
0+30	4.4848	238.99	Q				
0+35	6.7206	324.64	VQ				
0+40	9.6629	427.22	VQ				
0+45	13.6899	584.72	V Q				
0+50	20.0157	918.51	V Q				
0+55	28.4610	1226.25	V Q				
1+ 0	37.8839	1368.21	V Q				



1+ 5	48.4329	1531.71	
1+10	61.1424	1845.43	
1+15	75.8402	2134.11	
1+20	91.5098	2275.23	
1+25	108.5537	2474.78	
1+30	128.2992	2867.05	
1+35	150.6377	3243.54	
1+40	174.6126	3481.16	
1+45	200.8032	3802.88	
1+50	230.8426	4361.72	
1+55	264.7423	4922.23	
2+ 0	301.7135	5368.23	
2+ 5	342.4305	5912.10	
2+10	390.5755	6990.66	
2+15	445.1439	7923.33	
2+20	502.3913	8312.31	
2+25	562.5141	8729.84	
2+30	629.6801	9752.50	
2+35	702.1012	10515.54	
2+40	774.3228	10486.57	
2+45	844.6753	10215.19	
2+50	910.3763	9539.78	
2+55	971.9818	8945.12	
3+ 0	1031.4737	8638.23	
3+ 5	1088.3794	8262.71	
3+10	1139.8983	7480.53	
3+15	1186.9057	6825.48	
3+20	1232.1143	6564.29	
3+25	1275.5410	6305.55	
3+30	1315.7189	5833.83	
3+35	1353.1179	5430.33	
3+40	1389.1477	5231.53	
3+45	1423.5814	4999.77	
3+50	1454.6974	4518.04	
3+55	1483.1253	4127.74	
4+ 0	1510.5512	3982.24	
4+ 5	1537.0276	3844.38	
4+10	1561.7080	3583.58	
4+15	1584.9359	3372.69	
4+20	1607.5834	3288.41	
4+25	1629.6134	3198.76	
4+30	1650.4140	3020.25	
4+35	1670.2222	2876.16	
4+40	1689.6188	2816.38	
4+45	1708.6007	2756.17	
4+50	1726.8539	2650.37	
4+55	1744.4824	2559.66	
5+ 0	1761.7388	2505.63	
5+ 5	1778.5311	2438.23	
5+10	1794.3363	2294.93	
5+15	1809.3761	2183.77	
5+20	1824.1243	2141.44	
5+25	1838.5519	2094.89	
5+30	1852.3349	2001.28	
5+35	1865.6049	1926.80	
5+40	1878.6457	1893.53	
5+45	1891.4777	1863.20	
5+50	1904.0003	1818.29	
5+55	1916.2413	1777.38	
6+ 0	1928.2549	1744.38	
6+ 5	1939.9089	1692.16	
6+10	1950.7042	1567.48	
6+15	1960.8723	1476.42	
6+20	1970.8511	1448.91	
6+25	1980.7199	1432.96	
6+30	1990.5008	1420.18	
6+35	2000.1776	1405.07	
6+40	2009.7202	1385.59	
6+45	2019.0311	1351.94	
6+50	2027.7750	1269.60	
6+55	2036.1176	1211.35	
7+ 0	2044.3462	1194.79	
7+ 5	2052.5148	1186.08	
7+10	2060.6393	1179.68	
7+15	2068.7116	1172.11	
7+20	2076.7165	1162.31	
7+25	2084.5921	1143.53	
7+30	2092.1583	1098.61	
7+35	2099.4998	1065.99	

7+40	2106.7557	1053.56	Q			V
7+45	2113.9499	1044.59	Q			V
7+50	2121.0852	1036.05	Q			V
7+55	2128.1508	1025.93	Q			V
8+ 0	2135.1261	1012.81	Q			V
8+ 5	2141.9292	987.80	Q			V
8+10	2148.3203	927.99	Q			V
8+15	2154.4194	885.60	Q			V
8+20	2160.4086	869.63	Q			V
8+25	2166.3200	858.34	Q			V
8+30	2172.1577	847.63	Q			V
8+35	2177.9082	834.96	Q			V
8+40	2183.5456	818.56	Q			V
8+45	2188.9930	790.95	Q			V
8+50	2193.9724	723.02	Q			V
8+55	2198.6488	679.01	Q			V
9+ 0	2203.2492	667.98	Q			V
9+ 5	2207.8199	663.67	Q			V
9+10	2212.3759	661.53	Q			V
9+15	2216.9144	658.99	Q			V
9+20	2221.4300	655.67	Q			V
9+25	2225.8979	648.73	Q			V
9+30	2230.2543	632.55	Q			V
9+35	2234.5316	621.06	Q			V
9+40	2238.7728	615.83	Q			V
9+45	2242.9851	611.63	Q			V
9+50	2247.1678	607.33	Q			V
9+55	2251.3155	602.24	Q			V
10+ 0	2255.4176	595.62	Q			V
10+ 5	2259.4391	583.93	Q			V
10+10	2263.2654	555.58	Q			V
10+15	2266.9679	537.60	Q			V
10+20	2270.6334	532.24	Q			V
10+25	2274.2797	529.44	Q			V
10+30	2277.9112	527.29	Q			V
10+35	2281.5251	524.74	Q			V
10+40	2285.1158	521.38	Q			V
10+45	2288.6552	513.91	Q			V
10+50	2292.0771	496.86	Q			V
10+55	2295.4163	484.85	Q			V
11+ 0	2298.7138	478.81	Q			V
11+ 5	2301.9761	473.68	Q			V
11+10	2305.2013	468.29	Q			V
11+15	2308.3824	461.90	Q			V
11+20	2311.5062	453.58	Q			V
11+25	2314.5346	439.72	Q			V
11+30	2317.3282	405.63	Q			V
11+35	2319.9853	385.82	Q			V
11+40	2322.6114	381.31	Q			V
11+45	2325.2299	380.20	Q			V
11+50	2327.8483	380.20	Q			V
11+55	2330.4668	380.20	Q			V
12+ 0	2333.0850	380.16	Q			V
12+ 5	2335.6920	378.54	Q			V
12+10	2338.2797	375.73	Q			V
12+15	2340.8456	372.57	Q			V
12+20	2343.3882	369.19	Q			V
12+25	2345.9050	365.44	Q			V
12+30	2348.3921	361.12	Q			V
12+35	2350.8437	355.98	Q			V
12+40	2353.2491	349.27	Q			V
12+45	2355.5769	337.99	Q			V
12+50	2357.7148	310.43	Q			V
12+55	2359.7474	295.12	Q			V
13+ 0	2361.7555	291.58	Q			V
13+ 5	2363.7579	290.74	Q			V
13+10	2365.7602	290.74	Q			V
13+15	2367.7626	290.74	Q			V
13+20	2369.7646	290.69	Q			V
13+25	2371.7551	289.03	Q			V
13+30	2373.7262	286.21	Q			V
13+35	2375.6755	283.04	Q			V
13+40	2377.6015	279.65	Q			V
13+45	2379.5016	275.89	Q			V
13+50	2381.3718	271.55	Q			V
13+55	2383.2065	266.40	Q			V
14+ 0	2384.9946	259.63	Q			V
14+ 5	2386.7036	248.15	Q			V
14+10	2388.2211	220.33	Q			V

14+15	2389.6367	205.55	Q	|	|	|	V |
14+20	2391.0284	202.08	Q	|	|	|	V |
14+25	2392.4147	201.28	Q	|	|	|	V |
14+30	2393.8009	201.28	Q	|	|	|	V |
14+35	2395.1872	201.28	Q	|	|	|	V |
14+40	2396.5730	201.22	Q	|	|	|	V |
14+45	2397.9470	199.51	Q	|	|	|	V |
14+50	2399.3016	196.68	Q	|	|	|	V |
14+55	2400.6343	193.51	Q	|	|	|	V|
15+ 0	2401.9436	190.12	Q	|	|	|	V|
15+ 5	2403.2270	186.35	Q	|	|	|	V|
15+10	2404.4804	181.99	Q	|	|	|	V|
15+15	2405.6981	176.81	Q	|	|	|	V|
15+20	2406.8688	169.98	Q	|	|	|	V|
15+25	2407.9591	158.31	Q	|	|	|	V|
15+30	2408.8561	130.25	Q	|	|	|	V|
15+35	2409.6549	115.99	Q	|	|	|	V|
15+40	2410.4302	112.57	Q	|	|	|	V|
15+45	2411.2003	111.82	Q	|	|	|	V|
15+50	2411.9705	111.82	Q	|	|	|	V|
15+55	2412.7406	111.82	Q	|	|	|	V|
16+ 0	2413.5109	111.84	Q	|	|	|	V|
16+ 5	2414.2842	112.28	Q	|	|	|	V|
16+10	2415.0624	112.99	Q	|	|	|	V|
16+15	2415.8460	113.79	Q	|	|	|	V|
16+20	2416.6355	114.64	Q	|	|	|	V|
16+25	2417.4315	115.58	Q	|	|	|	V|
16+30	2418.2350	116.67	Q	|	|	|	V|
16+35	2419.0475	117.97	Q	|	|	|	V|
16+40	2419.8719	119.70	Q	|	|	|	V|
16+45	2420.7167	122.67	Q	|	|	|	V|
16+50	2421.6102	129.74	Q	|	|	|	V|
16+55	2422.5274	133.18	Q	|	|	|	V|
17+ 0	2423.4503	134.01	Q	|	|	|	V|
17+ 5	2424.3745	134.19	Q	|	|	|	V|
17+10	2425.2987	134.19	Q	|	|	|	V|
17+15	2426.2228	134.19	Q	|	|	|	V|
17+20	2427.1470	134.19	Q	|	|	|	V|
17+25	2428.0712	134.19	Q	|	|	|	V|
17+30	2428.9953	134.19	Q	|	|	|	V|
17+35	2429.9195	134.19	Q	|	|	|	V|
17+40	2430.8437	134.19	Q	|	|	|	V|
17+45	2431.7678	134.19	Q	|	|	|	V|
17+50	2432.6920	134.19	Q	|	|	|	V|
17+55	2433.6162	134.19	Q	|	|	|	V|
18+ 0	2434.5403	134.19	Q	|	|	|	V|
18+ 5	2435.4645	134.19	Q	|	|	|	V|
18+10	2436.3887	134.19	Q	|	|	|	V|
18+15	2437.3128	134.19	Q	|	|	|	V|
18+20	2438.2370	134.19	Q	|	|	|	V|
18+25	2439.1612	134.19	Q	|	|	|	V|
18+30	2440.0853	134.19	Q	|	|	|	V|
18+35	2441.0095	134.19	Q	|	|	|	V|
18+40	2441.9331	134.11	Q	|	|	|	V|
18+45	2442.8477	132.80	Q	|	|	|	V|
18+50	2443.7481	130.74	Q	|	|	|	V|
18+55	2444.6328	128.45	Q	|	|	|	V|
19+ 0	2445.5005	126.00	Q	|	|	|	V|
19+ 5	2446.3494	123.26	Q	|	|	|	V|
19+10	2447.1766	120.10	Q	|	|	|	V|
19+15	2447.9777	116.32	Q	|	|	|	V|
19+20	2448.7441	111.29	Q	|	|	|	V|
19+25	2449.4495	102.42	Q	|	|	|	V|
19+30	2450.0132	81.85	Q	|	|	|	V|
19+35	2450.5136	72.65	Q	|	|	|	V|
19+40	2450.9980	70.34	Q	|	|	|	V|
19+45	2451.4793	69.89	Q	|	|	|	V|
19+50	2451.9607	69.89	Q	|	|	|	V|
19+55	2452.4420	69.89	Q	|	|	|	V|
20+ 0	2452.9233	69.89	Q	|	|	|	V|
20+ 5	2453.4047	69.89	Q	|	|	|	V|
20+10	2453.8860	69.89	Q	|	|	|	V|
20+15	2454.3674	69.89	Q	|	|	|	V|
20+20	2454.8487	69.89	Q	|	|	|	V|
20+25	2455.3300	69.89	Q	|	|	|	V|
20+30	2455.8114	69.89	Q	|	|	|	V|
20+35	2456.2927	69.89	Q	|	|	|	V|
20+40	2456.7740	69.89	Q	|	|	|	V|
20+45	2457.2554	69.89	Q	|	|	|	V|

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20+50	2457.7337	69.45	Q	|	|	V|
20+55	2458.1984	67.48	Q	|	|	V|
21+ 0	2458.6466	65.08	Q	|	|	V|
21+ 5	2459.0772	62.52	Q	|	|	V|
21+10	2459.4887	59.75	Q	|	|	V|
21+15	2459.8785	56.60	Q	|	|	V|
21+20	2460.2429	52.91	Q	|	|	V|
21+25	2460.5761	48.37	Q	|	|	V|
21+30	2460.8635	41.74	Q	|	|	V|
21+35	2461.0538	27.63	Q	|	|	V|
21+40	2461.0911	5.41	Q	|	|	V|
21+45	2461.1017	1.54	Q	|	|	V

U n i t H y d r o g r a p h A n a l y s i s

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Study date 04/20/17 File: AREAA3100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

TRI-8 Builders - S/N 615

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

MORONGO WASH & MISSION CREEK
EXISTING CONDITION
AREA "A"
100YR-3HR

Drainage Area = 27294.00(Ac.) = 42.647 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 27294.00(Ac.) = 42.647 Sq. Mi.
Length along longest watercourse = 128045.00(Ft.)
Length along longest watercourse measured to centroid = 64610.00(Ft.)
Length along longest watercourse = 24.251 Mi.
Length along longest watercourse measured to centroid = 12.237 Mi.
Difference in elevation = 7588.00(Ft.)
Slope along watercourse = 312.8950 Ft./Mi.
Average Manning's 'N' = 0.038
Lag time = 2.663 Hr.
Lag time = 159.78 Min.
25% of lag time = 39.95 Min.
40% of lag time = 63.91 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
64.00	0.70	44.80
873.00	0.80	698.40
6086.00	1.00	6086.00
6077.00	1.10	6684.70
5221.00	1.20	6265.20
8085.00	1.30	10510.50
888.00	1.40	1243.20

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
11.00	2.20	24.20
750.00	2.25	1687.50
15630.00	2.50	39075.00
10527.00	2.75	28949.25
376.00	3.00	1128.00

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 1.155(In)
Area Averaged 100-Year Rainfall = 2.596(In)

Point rain (area averaged) = 2.596(In)
Areal adjustment factor = 90.82 %
Adjusted average point rain = 2.358(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
27294.000	82.32	0.000

Total Area Entered = 27294.00(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
82.3	82.3	0.218	0.000	0.218	1.000	0.218
					Sum (F) =	0.218

Area averaged mean soil loss (F) (In/Hr) = 0.218
Minimum soil loss rate ((In/Hr)) = 0.109
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
DESERT S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	3.129	0.138	37.874
2	0.167	6.258	0.275	75.748
3	0.250	9.388	0.275	75.748
4	0.333	12.517	0.275	75.749
5	0.417	15.646	0.402	110.551
6	0.500	18.775	0.526	144.609
7	0.583	21.905	0.526	144.609
8	0.667	25.034	0.526	144.613
9	0.750	28.163	0.654	179.783
10	0.833	31.292	0.776	213.471
11	0.917	34.422	0.776	213.471
12	1.000	37.551	0.776	213.481
13	1.083	40.680	0.918	252.568
14	1.167	43.809	1.051	289.218
15	1.250	46.939	1.051	289.218
16	1.333	50.068	1.052	289.280
17	1.417	53.197	1.548	425.675
18	1.500	56.326	2.003	550.892
19	1.583	59.456	2.003	550.892
20	1.667	62.585	2.003	551.014
21	1.750	65.714	2.636	725.009
22	1.833	68.843	3.204	881.428
23	1.917	71.973	3.204	881.428
24	2.000	75.102	3.204	881.351
25	2.083	78.231	2.925	804.490
26	2.167	81.360	2.679	736.818
27	2.250	84.490	2.679	736.818
28	2.333	87.619	2.678	736.684
29	2.417	90.748	2.315	636.925
30	2.500	93.877	2.003	550.892
31	2.583	97.007	2.003	550.892
32	2.667	100.136	2.002	550.795
33	2.750	103.265	1.799	494.858
34	2.833	106.394	1.627	447.600
35	2.917	109.524	1.627	447.600
36	3.000	112.653	1.627	447.460
37	3.083	115.782	1.394	383.489
38	3.167	118.911	1.202	330.535
39	3.250	122.041	1.202	330.535
40	3.333	125.170	1.201	330.444
41	3.417	128.299	1.077	296.275
42	3.500	131.428	0.976	268.560
43	3.583	134.558	0.976	268.560
44	3.667	137.687	0.976	268.486
45	3.750	140.816	0.893	245.508
46	3.833	143.945	0.826	227.243
47	3.917	147.075	0.826	227.243
48	4.000	150.204	0.826	227.199
49	4.083	153.333	0.784	215.612
50	4.167	156.462	0.751	206.585
51	4.250	159.592	0.751	206.585
52	4.333	162.721	0.751	206.499
53	4.417	165.850	0.680	187.025
54	4.500	168.979	0.626	172.154
55	4.583	172.109	0.626	172.154
56	4.667	175.238	0.626	172.094
57	4.750	178.367	0.583	160.314
58	4.833	181.496	0.551	151.495

59	4.917	184.626	0.551	151.495
60	5.000	187.755	0.551	151.473
61	5.083	190.884	0.536	147.514
62	5.167	194.013	0.526	144.609
63	5.250	197.143	0.526	144.609
64	5.333	200.272	0.525	144.492
65	5.417	203.401	0.460	126.541
66	5.500	206.530	0.413	113.622
67	5.583	209.659	0.413	113.622
68	5.667	212.789	0.413	113.622
69	5.750	215.918	0.413	113.622
70	5.833	219.047	0.413	113.622
71	5.917	222.176	0.413	113.622
72	6.000	225.306	0.413	113.523
73	6.083	228.435	0.369	101.373
74	6.167	231.564	0.338	92.963
75	6.250	234.693	0.338	92.963
76	6.333	237.823	0.338	92.963
77	6.417	240.952	0.338	92.963
78	6.500	244.081	0.338	92.963
79	6.583	247.210	0.338	92.963
80	6.667	250.340	0.338	92.902
81	6.750	253.469	0.315	86.738
82	6.833	256.598	0.300	82.634
83	6.917	259.727	0.300	82.634
84	7.000	262.857	0.300	82.634
85	7.083	265.986	0.300	82.634
86	7.167	269.115	0.300	82.634
87	7.250	272.244	0.300	82.634
88	7.333	275.374	0.300	82.536
89	7.417	278.503	0.270	74.201
90	7.500	281.632	0.250	68.862
91	7.583	284.761	0.250	68.862
92	7.667	287.891	0.250	68.862
93	7.750	291.020	0.250	68.862
94	7.833	294.149	0.250	68.862
95	7.917	297.278	0.250	68.862
96	8.000	300.408	0.250	68.715
97	8.083	303.537	0.211	58.157
98	8.167	306.666	0.188	51.646
99	8.250	309.795	0.188	51.646
100	8.333	312.925	0.188	51.646
101	8.417	316.054	0.188	51.646
102	8.500	319.183	0.188	51.646
103	8.583	322.312	0.188	51.646
104	8.667	325.442	0.188	51.612
105	8.750	328.571	0.180	49.473
106	8.833	331.700	0.175	48.203
107	8.917	334.829	0.175	48.203
108	9.000	337.959	0.175	48.203
109	9.083	341.088	0.175	48.203
110	9.167	344.217	0.175	48.203
111	9.250	347.346	0.175	48.203
112	9.333	350.476	0.175	48.124
113	9.417	353.605	0.159	43.793
114	9.500	356.734	0.150	41.317
115	9.583	359.863	0.150	41.317
116	9.667	362.993	0.150	41.317
117	9.750	366.122	0.150	41.317
118	9.833	369.251	0.150	41.317
119	9.917	372.380	0.150	41.317
120	10.000	375.510	0.150	41.271
121	10.083	378.639	0.142	39.080
122	10.167	381.768	0.138	37.874
123	10.250	384.897	0.138	37.874
124	10.333	388.027	0.138	37.874
125	10.417	391.156	0.138	37.874
126	10.500	394.285	0.138	37.874
127	10.583	397.414	0.138	37.874
128	10.667	400.544	0.137	37.744
129	10.750	403.673	0.117	32.205
130	10.833	406.802	0.106	29.266
131	10.917	409.931	0.106	29.266
132	11.000	413.061	0.106	29.266
133	11.083	416.190	0.106	29.266
134	11.167	419.319	0.106	29.266
135	11.250	422.448	0.106	29.266
136	11.333	425.577	0.106	29.266
137	11.417	428.707	0.106	29.266

138	11.500	431.836	0.106	29.266
139	11.583	434.965	0.106	29.266
140	11.667	438.094	0.106	29.266
141	11.750	441.224	0.106	29.266
142	11.833	444.353	0.106	29.266
143	11.917	447.482	0.106	29.266
144	12.000	450.611	0.106	29.135
145	12.083	453.741	0.089	24.609
146	12.167	456.870	0.081	22.380
147	12.250	459.999	0.081	22.380
148	12.333	463.128	0.081	22.380
149	12.417	466.258	0.081	22.380
150	12.500	469.387	0.081	22.380
151	12.583	472.516	0.081	22.380
152	12.667	475.645	0.081	22.380
153	12.750	478.775	0.081	22.380
154	12.833	481.904	0.081	22.380
155	12.917	485.033	0.081	22.380
156	13.000	488.162	0.081	22.380
157	13.083	491.292	0.081	22.380
158	13.167	494.421	0.081	22.380
159	13.250	497.550	0.081	22.380
160	13.333	500.679	0.081	22.218
161	13.417	503.809	0.064	17.604
162	13.500	506.938	0.056	15.494
163	13.583	510.067	0.056	15.494
164	13.667	513.196	0.056	15.494
165	13.750	516.326	0.056	15.494
166	13.833	519.455	0.056	15.494
167	13.917	522.584	0.056	15.494
168	14.000	525.713	0.056	15.494
169	14.083	528.843	0.056	15.494
170	14.167	531.972	0.056	15.494
171	14.250	535.101	0.056	15.494
172	14.333	538.230	0.056	15.494
173	14.417	541.360	0.056	15.494
174	14.500	544.489	0.056	15.494
175	14.583	547.618	0.056	15.494
176	14.667	550.747	0.056	15.297
177	14.750	553.877	0.039	10.603
178	14.833	557.006	0.031	8.608
179	14.917	560.135	0.031	8.608
180	15.000	563.264	0.031	8.608
181	15.083	566.394	0.031	8.608
182	15.167	569.523	0.031	8.608
183	15.250	572.652	0.031	8.608
184	15.333	575.781	0.031	8.608
185	15.417	578.911	0.031	8.608
186	15.500	582.040	0.031	8.608
187	15.583	585.169	0.031	8.608
188	15.667	588.298	0.031	8.608
189	15.750	591.428	0.031	8.608
190	15.833	594.557	0.031	8.608
191	15.917	597.686	0.031	8.608
192	16.000	600.815	0.032	8.666
193	16.083	603.945	0.036	9.859
194	16.167	607.074	0.038	10.329
195	16.250	610.203	0.038	10.329
196	16.333	613.332	0.038	10.329
197	16.417	616.462	0.038	10.329
198	16.500	619.591	0.038	10.329
199	16.583	622.720	0.038	10.329
200	16.667	625.849	0.038	10.329
201	16.750	628.978	0.038	10.329
202	16.833	632.108	0.038	10.329
203	16.917	635.237	0.038	10.329
204	17.000	638.366	0.038	10.329
205	17.083	641.495	0.038	10.329
206	17.167	644.625	0.038	10.329
207	17.250	647.754	0.038	10.329
208	17.333	650.883	0.038	10.329
209	17.417	654.012	0.038	10.329
210	17.500	657.142	0.038	10.329
211	17.583	660.271	0.038	10.329
212	17.667	663.400	0.038	10.329
213	17.750	666.529	0.038	10.329
214	17.833	669.659	0.038	10.329
215	17.917	672.788	0.038	10.329
216	18.000	675.917	0.038	10.329

217	18.083	679.046	0.038	10.329
218	18.167	682.176	0.038	10.329
219	18.250	685.305	0.038	10.329
220	18.333	688.434	0.038	10.329
221	18.417	691.563	0.038	10.329
222	18.500	694.693	0.038	10.329
223	18.583	697.822	0.038	10.329
224	18.667	700.951	0.037	10.101
225	18.750	704.080	0.024	6.579
226	18.833	707.210	0.020	5.380
227	18.917	710.339	0.020	5.380
228	19.000	713.468	0.020	5.380
229	19.083	716.597	0.020	5.380
230	19.167	719.727	0.020	5.380
231	19.250	722.856	0.020	5.380
232	19.333	725.985	0.020	5.380
233	19.417	729.114	0.020	5.380
234	19.500	732.244	0.020	5.380
235	19.583	735.373	0.020	5.380
236	19.667	738.502	0.020	5.380
237	19.750	741.631	0.020	5.380
238	19.833	744.761	0.020	5.380
239	19.917	747.890	0.020	5.380
240	20.000	751.019	0.020	5.380
241	20.083	754.148	0.020	5.380
242	20.167	757.278	0.020	5.380
243	20.250	760.407	0.020	5.380
244	20.333	763.536	0.020	5.380
245	20.417	766.665	0.020	5.380
246	20.500	769.795	0.020	5.380
247	20.583	772.924	0.020	5.380
248	20.667	776.053	0.020	5.380
249	20.750	779.182	0.020	5.380
250	20.833	782.312	0.015	4.096
			Sum = 100.000	Sum= 27507.234

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.368	0.218	---	0.15
2	0.17	1.30	0.368	0.218	---	0.15
3	0.25	1.10	0.311	0.218	---	0.09
4	0.33	1.50	0.424	0.218	---	0.21
5	0.42	1.50	0.424	0.218	---	0.21
6	0.50	1.80	0.509	0.218	---	0.29
7	0.58	1.50	0.424	0.218	---	0.21
8	0.67	1.80	0.509	0.218	---	0.29
9	0.75	1.80	0.509	0.218	---	0.29
10	0.83	1.50	0.424	0.218	---	0.21
11	0.92	1.60	0.453	0.218	---	0.24
12	1.00	1.80	0.509	0.218	---	0.29
13	1.08	2.20	0.622	0.218	---	0.40
14	1.17	2.20	0.622	0.218	---	0.40
15	1.25	2.20	0.622	0.218	---	0.40
16	1.33	2.00	0.566	0.218	---	0.35
17	1.42	2.60	0.736	0.218	---	0.52
18	1.50	2.70	0.764	0.218	---	0.55
19	1.58	2.40	0.679	0.218	---	0.46
20	1.67	2.70	0.764	0.218	---	0.55
21	1.75	3.30	0.934	0.218	---	0.72
22	1.83	3.10	0.877	0.218	---	0.66
23	1.92	2.90	0.821	0.218	---	0.60
24	2.00	3.00	0.849	0.218	---	0.63
25	2.08	3.10	0.877	0.218	---	0.66
26	2.17	4.20	1.188	0.218	---	0.97
27	2.25	5.00	1.415	0.218	---	1.20
28	2.33	3.50	0.990	0.218	---	0.77
29	2.42	6.80	1.924	0.218	---	1.71
30	2.50	7.30	2.066	0.218	---	1.85
31	2.58	8.20	2.320	0.218	---	2.10
32	2.67	5.90	1.669	0.218	---	1.45
33	2.75	2.00	0.566	0.218	---	0.35
34	2.83	1.80	0.509	0.218	---	0.29
35	2.92	1.80	0.509	0.218	---	0.29
36	3.00	0.60	0.170	0.218	0.153	0.02
Sum =		100.0			Sum =	20.5

Flood volume = Effective rainfall 1.71(In)
times area 27294.0(Ac.)/[(In)/(Ft.)] = 3890.8(Ac.Ft)

Total soil loss = 0.65(In)
Total soil loss = 1472.191(Ac.Ft)
Total rainfall = 2.36(In)
Flood volume = 169483450.6 Cubic Feet
Total soil loss = 64128643.5 Cubic Feet

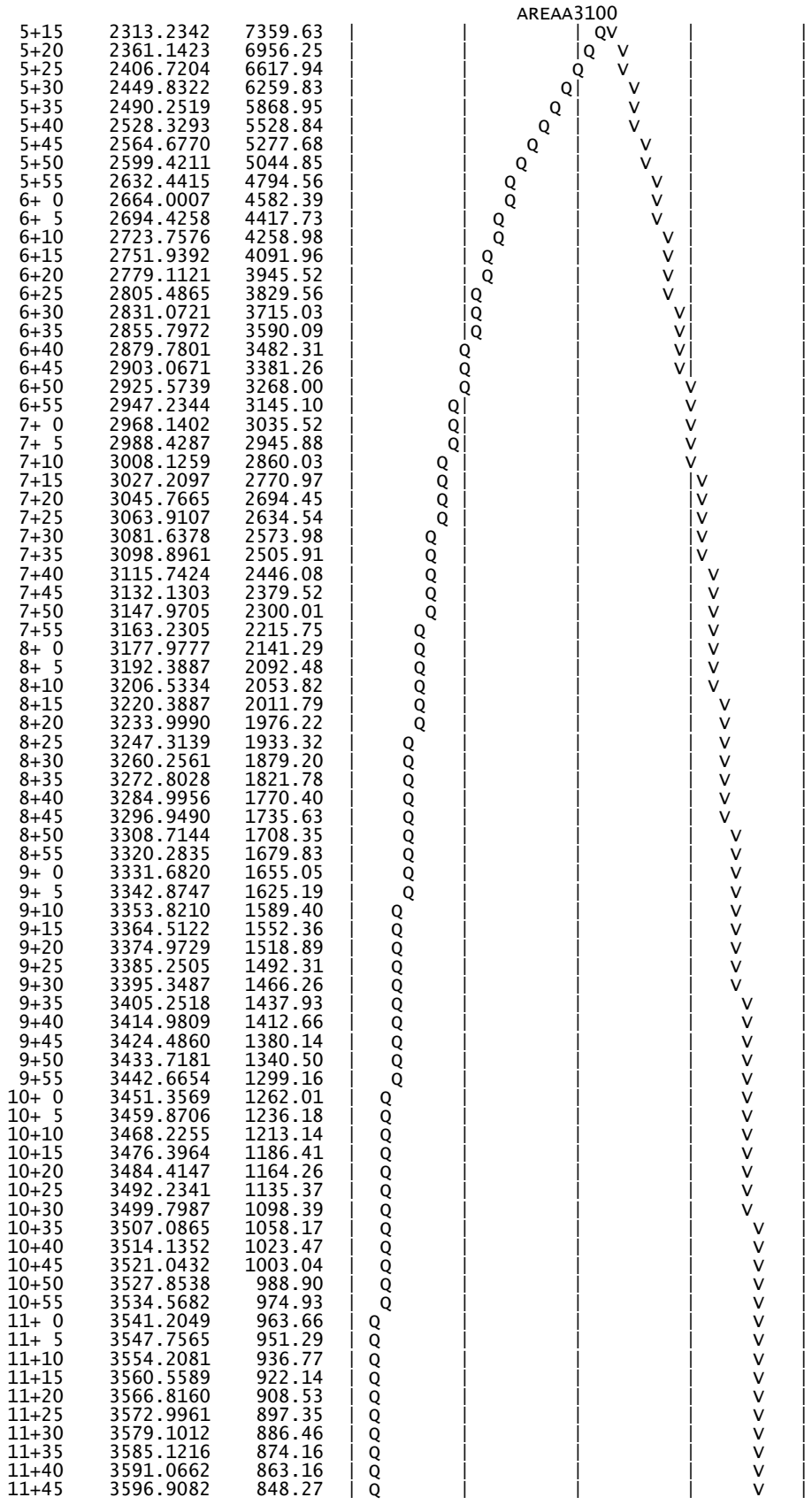
Peak flow rate of this hydrograph = 12892.955(CFS)

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3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	3225.0	6450.0	9675.0	12900.0
0+ 5	0.0392	5.69	Q				
0+10	0.1569	17.08	Q				
0+15	0.3382	26.33	Q				
0+20	0.5980	37.72	Q				
0+25	1.0017	58.63	Q				
0+30	1.6069	87.88	Q				
0+35	2.4000	115.15	Q				
0+40	3.3948	144.44	Q				
0+45	4.6765	186.10	Q				
0+50	6.2781	232.55	Q				
0+55	8.1707	274.81	Q				
1+ 0	10.3912	322.42	Q				
1+ 5	13.0707	389.06	VQ				
1+10	16.2767	465.52	VQ				
1+15	19.9801	537.73	VQ				
1+20	24.2034	613.23	VQ				
1+25	29.2061	726.40	V Q				
1+30	35.1984	870.08	V Q				
1+35	42.0982	1001.84	V Q				
1+40	49.9711	1143.15	V Q				
1+45	59.2510	1347.44	V Q				
1+50	70.2591	1598.38	V Q				
1+55	82.8641	1830.25	V Q				
2+ 0	97.1489	2074.15	V Q				
2+ 5	113.3774	2356.37	|V Q				
2+10	131.6911	2659.15	|V Q				
2+15	152.1625	2972.46	|V Q				
2+20	174.7734	3283.11	|V Q				
2+25	199.8529	3641.54	| V |Q				
2+30	227.7010	4043.54	| V | Q				
2+35	258.4925	4470.91	| V | Q				
2+40	292.0659	4874.87	| V | Q				
2+45	328.3113	5262.83	| V | Q				
2+50	367.5214	5693.30	| V | Q				
2+55	409.8721	6149.31	| V | Q				
3+ 0	455.0006	6552.67	| V | Q				
3+ 5	502.6918	6924.76	| V | Q				
3+10	553.2389	7339.43	| V | Q				
3+15	606.7502	7769.83	| V | Q				
3+20	662.9318	8157.58	| V | Q				
3+25	721.5081	8505.28	| V | Q				
3+30	782.7168	8887.49	| V | Q				
3+35	847.0692	9343.97	| V | Q				
3+40	914.1373	9738.30	| V| Q				
3+45	983.6168	10088.43	| V |Q				
3+50	1056.3449	10560.12	| V | Q				
3+55	1133.4039	11188.95	| V| Q				
4+ 0	1214.0380	11708.08	| V | Q				
4+ 5	1296.8817	12028.90	| V | Q				
4+10	1381.7514	12323.08	| V | Q				
4+15	1468.9033	12654.46	| V | Q				
4+20	1557.6978	12892.96	| V | Q				
4+25	1645.3015	12720.06	| V | Q				
4+30	1729.5631	12234.79	| V | Q				
4+35	1809.9637	11674.16	| V | Q				
4+40	1886.5475	11119.97	| V| Q				
4+45	1959.2862	10561.66	| V | Q				
4+50	2027.8218	9951.37	| V | Q				
4+55	2091.8045	9290.29	| V |Q				
5+ 0	2151.7649	8706.24	| V Q |				
5+ 5	2208.6314	8257.02	| V Q |				
5+10	2262.5481	7828.71	| VQ |				



5+15	2313.2342	7359.63	
5+20	2361.1423	6956.25	
5+25	2406.7204	6617.94	
5+30	2449.8322	6259.83	
5+35	2490.2519	5868.95	
5+40	2528.3293	5528.84	
5+45	2564.6770	5277.68	
5+50	2599.4211	5044.85	
5+55	2632.4415	4794.56	
6+ 0	2664.0007	4582.39	
6+ 5	2694.4258	4417.73	
6+10	2723.7576	4258.98	
6+15	2751.9392	4091.96	
6+20	2779.1121	3945.52	
6+25	2805.4865	3829.56	
6+30	2831.0721	3715.03	
6+35	2855.7972	3590.09	
6+40	2879.7801	3482.31	
6+45	2903.0671	3381.26	
6+50	2925.5739	3268.00	
6+55	2947.2344	3145.10	
7+ 0	2968.1402	3035.52	
7+ 5	2988.4287	2945.88	
7+10	3008.1259	2860.03	
7+15	3027.2097	2770.97	
7+20	3045.7665	2694.45	
7+25	3063.9107	2634.54	
7+30	3081.6378	2573.98	
7+35	3098.8961	2505.91	
7+40	3115.7424	2446.08	
7+45	3132.1303	2379.52	
7+50	3147.9705	2300.01	
7+55	3163.2305	2215.75	
8+ 0	3177.9777	2141.29	
8+ 5	3192.3887	2092.48	
8+10	3206.5334	2053.82	
8+15	3220.3887	2011.79	
8+20	3233.9990	1976.22	
8+25	3247.3139	1933.32	
8+30	3260.2561	1879.20	
8+35	3272.8028	1821.78	
8+40	3284.9956	1770.40	
8+45	3296.9490	1735.63	
8+50	3308.7144	1708.35	
8+55	3320.2835	1679.83	
9+ 0	3331.6820	1655.05	
9+ 5	3342.8747	1625.19	
9+10	3353.8210	1589.40	
9+15	3364.5122	1552.36	
9+20	3374.9729	1518.89	
9+25	3385.2505	1492.31	
9+30	3395.3487	1466.26	
9+35	3405.2518	1437.93	
9+40	3414.9809	1412.66	
9+45	3424.4860	1380.14	
9+50	3433.7181	1340.50	
9+55	3442.6654	1299.16	
10+ 0	3451.3569	1262.01	
10+ 5	3459.8706	1236.18	
10+10	3468.2255	1213.14	
10+15	3476.3964	1186.41	
10+20	3484.4147	1164.26	
10+25	3492.2341	1135.37	
10+30	3499.7987	1098.39	
10+35	3507.0865	1058.17	
10+40	3514.1352	1023.47	
10+45	3521.0432	1003.04	
10+50	3527.8538	988.90	
10+55	3534.5682	974.93	
11+ 0	3541.2049	963.66	
11+ 5	3547.7565	951.29	
11+10	3554.2081	936.77	
11+15	3560.5589	922.14	
11+20	3566.8160	908.53	
11+25	3572.9961	897.35	
11+30	3579.1012	886.46	
11+35	3585.1216	874.16	
11+40	3591.0662	863.16	
11+45	3596.9082	848.27	

11+50	3602.6248	830.04	Q			V
11+55	3608.2075	810.61	Q			V
12+ 0	3613.6739	793.73	Q			V
12+ 5	3619.0574	781.68	Q			V
12+10	3624.3667	770.91	Q			V
12+15	3629.6014	760.07	Q			V
12+20	3634.7695	750.41	Q			V
12+25	3639.8557	738.51	Q			V
12+30	3644.8464	724.65	Q			V
12+35	3649.7414	710.76	Q			V
12+40	3654.5475	697.85	Q			V
12+45	3659.2836	687.68	Q			V
12+50	3663.9497	677.51	Q			V
12+55	3668.5321	665.37	Q			V
13+ 0	3673.0435	655.05	Q			V
13+ 5	3677.4548	640.53	Q			V
13+10	3681.7400	622.20	Q			V
13+15	3685.8870	602.15	Q			V
13+20	3689.9180	585.30	Q			V
13+25	3693.8791	575.15	Q			V
13+30	3697.7893	567.76	Q			V
13+35	3701.6537	561.12	Q			V
13+40	3705.4786	555.38	Q			V
13+45	3709.2620	549.34	Q			V
13+50	3713.0007	542.86	Q			V
13+55	3716.6988	536.96	Q			V
14+ 0	3720.3547	530.84	Q			V
14+ 5	3723.9657	524.32	Q			V
14+10	3727.5242	516.69	Q			V
14+15	3731.0189	507.43	Q			V
14+20	3734.4564	499.13	Q			V
14+25	3737.8096	486.88	Q			V
14+30	3741.0578	471.64	Q			V
14+35	3744.1916	455.03	Q			V
14+40	3747.2298	441.15	Q			V
14+45	3750.2074	432.34	Q			V
14+50	3753.1377	425.49	Q			V
14+55	3756.0259	419.36	Q			V
15+ 0	3758.8759	413.82	Q			V
15+ 5	3761.6843	407.78	Q			V
15+10	3764.4480	401.30	Q			V
15+15	3767.1712	395.41	Q			V
15+20	3769.8522	389.27	Q			V
15+25	3772.4882	382.74	Q			V
15+30	3775.0713	375.08	Q			V
15+35	3777.5906	365.80	Q			V
15+40	3780.0528	357.51	Q			V
15+45	3782.4297	345.14	Q			V
15+50	3784.7016	329.87	Q			V
15+55	3786.8589	313.25	Q			V
16+ 0	3788.9217	299.51	Q			V
16+ 5	3790.9310	291.75	Q			V
16+10	3792.9019	286.18	Q			V
16+15	3794.8375	281.04	Q			V
16+20	3796.7453	277.02	Q			V
16+25	3798.6239	272.76	Q			V
16+30	3800.4736	268.58	Q			V
16+35	3802.2966	264.70	Q			V
16+40	3804.0932	260.87	Q			V
16+45	3805.8619	256.82	Q			V
16+50	3807.5913	251.10	Q			V
16+55	3809.2703	243.79	Q			V
17+ 0	3810.9088	237.91	Q			V
17+ 5	3812.4834	228.64	Q			V
17+10	3813.9768	216.83	Q			V
17+15	3815.3795	203.68	Q			V
17+20	3816.7103	193.23	Q			V
17+25	3818.0150	189.45	Q			V
17+30	3819.3115	188.25	Q			V
17+35	3820.6004	187.14	Q			V
17+40	3821.8909	187.38	Q			V
17+45	3823.1891	188.50	Q			V
17+50	3824.4953	189.66	Q			V
17+55	3825.8089	190.73	Q			V
18+ 0	3827.1298	191.80	Q			V
18+ 5	3828.4586	192.94	Q			V
18+10	3829.7981	194.48	Q			V
18+15	3831.1508	196.41	Q			V
18+20	3832.5144	198.00	Q			V

18+25	3833.8953	200.51	Q	|	|	|	V|
18+30	3835.2978	203.64	Q	|	|	|	V|
18+35	3836.7241	207.10	Q	|	|	|	V|
18+40	3838.1691	209.81	Q	|	|	|	V|
18+45	3839.6178	210.36	Q	|	|	|	V|
18+50	3841.0652	210.16	Q	|	|	|	V|
18+55	3842.5121	210.09	Q	|	|	|	V|
19+ 0	3843.9540	209.36	Q	|	|	|	V|
19+ 5	3845.3887	208.32	Q	|	|	|	V|
19+10	3846.8143	207.00	Q	|	|	|	V|
19+15	3848.2321	205.85	Q	|	|	|	V|
19+20	3849.6405	204.51	Q	|	|	|	V|
19+25	3851.0392	203.09	Q	|	|	|	V|
19+30	3852.4300	201.95	Q	|	|	|	V|
19+35	3853.8130	200.81	Q	|	|	|	V|
19+40	3855.1863	199.41	Q	|	|	|	V|
19+45	3856.5468	197.54	Q	|	|	|	V|
19+50	3857.8934	195.53	Q	|	|	|	V|
19+55	3859.2263	193.54	Q	|	|	|	V|
20+ 0	3860.5466	191.71	Q	|	|	|	V|
20+ 5	3861.8506	189.34	Q	|	|	|	V|
20+10	3863.1364	186.69	Q	|	|	|	V|
20+15	3864.4055	184.28	Q	|	|	|	V|
20+20	3865.6564	181.64	Q	|	|	|	V|
20+25	3866.8845	178.31	Q	|	|	|	V|
20+30	3868.0896	174.99	Q	|	|	|	V|
20+35	3869.2737	171.93	Q	|	|	|	V|
20+40	3870.4364	168.83	Q	|	|	|	V|
20+45	3871.5764	165.52	Q	|	|	|	V|
20+50	3872.6841	160.84	Q	|	|	|	V|
20+55	3873.7480	154.48	Q	|	|	|	V|
21+ 0	3874.7755	149.19	Q	|	|	|	V|
21+ 5	3875.7478	141.18	Q	|	|	|	V|
21+10	3876.6502	131.03	Q	|	|	|	V|
21+15	3877.4755	119.84	Q	|	|	|	V|
21+20	3878.2377	110.67	Q	|	|	|	V|
21+25	3878.9705	106.41	Q	|	|	|	V|
21+30	3879.6821	103.32	Q	|	|	|	V|
21+35	3880.3742	100.48	Q	|	|	|	V|
21+40	3881.0554	98.92	Q	|	|	|	V|
21+45	3881.7274	97.56	Q	|	|	|	V|
21+50	3882.3875	95.85	Q	|	|	|	V|
21+55	3883.0326	93.67	Q	|	|	|	V|
22+ 0	3883.6626	91.49	Q	|	|	|	V|
22+ 5	3884.2782	89.38	Q	|	|	|	V|
22+10	3884.8794	87.29	Q	|	|	|	V|
22+15	3885.4611	84.46	Q	|	|	|	V|
22+20	3886.0233	81.63	Q	|	|	|	V|
22+25	3886.5676	79.04	Q	|	|	|	V|
22+30	3887.0902	75.88	Q	|	|	|	V|
22+35	3887.5867	72.10	Q	|	|	|	V|
22+40	3888.0593	68.62	Q	|	|	|	V|
22+45	3888.5093	65.34	Q	|	|	|	V|
22+50	3888.9356	61.90	Q	|	|	|	V|
22+55	3889.3347	57.95	Q	|	|	|	V|
23+ 0	3889.6959	52.44	Q	|	|	|	V|
23+ 5	3890.0164	46.54	Q	|	|	|	V|
23+10	3890.3000	41.18	Q	|	|	|	V|
23+15	3890.5191	31.81	Q	|	|	|	V|
23+20	3890.6674	21.54	Q	|	|	|	V|
23+25	3890.7435	11.06	Q	|	|	|	V|
23+30	3890.7756	4.66	Q	|	|	|	V|
23+35	3890.7953	2.86	Q	|	|	|	V|
23+40	3890.8042	1.29	Q	|	|	|	V|
23+45	3890.8047	0.07	Q	|	|	|	V|

U n i t H y d r o g r a p h A n a l y s i s

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Study date 04/20/17 File: AREAA6100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

TRI-8 Builders - S/N 615

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

MORONGO WASH & MISSION CREEK
EXISTING CONDITION
AREA "A"
100YR-6HR

Drainage Area = 27294.00(Ac.) = 42.647 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 27294.00(Ac.) = 42.647 Sq. Mi.
Length along longest watercourse = 128045.00(Ft.)
Length along longest watercourse measured to centroid = 64610.00(Ft.)
Length along longest watercourse = 24.251 Mi.
Length along longest watercourse measured to centroid = 12.237 Mi.
Difference in elevation = 7588.00(Ft.)
Slope along watercourse = 312.8950 Ft./Mi.
Average Manning's 'N' = 0.038
Lag time = 2.663 Hr.
Lag time = 159.78 Min.
25% of lag time = 39.95 Min.
40% of lag time = 63.91 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
771.00	1.00	771.00
3913.00	1.20	4695.60
7109.00	1.40	9952.60
6003.00	1.60	9604.80
6833.00	1.80	12299.40
2665.00	2.00	5330.00

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
25.00	2.50	62.50
816.00	2.75	2244.00
7847.00	3.00	23541.00
9434.00	3.50	33019.00
8038.00	4.00	32152.00
1134.00	4.50	5103.00

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 1.563(In)
Area Averaged 100-Year Rainfall = 3.522(In)

Point rain (area averaged) = 3.522(In)
Areal adjustment factor = 93.49 %
Adjusted average point rain = 3.292(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
27294.000	82.32	0.000

Total Area Entered = 27294.00(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
82.3	82.3	0.218	0.000	0.218	1.000	0.218
					Sum (F) =	0.218

Area averaged mean soil loss (F) (In/Hr) = 0.218
Minimum soil loss rate ((In/Hr)) = 0.109
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
DESERT S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	3.129	0.138	37.874
2	0.167	6.258	0.275	75.748
3	0.250	9.388	0.275	75.748
4	0.333	12.517	0.275	75.749
5	0.417	15.646	0.402	110.551
6	0.500	18.775	0.526	144.609
7	0.583	21.905	0.526	144.609
8	0.667	25.034	0.526	144.613
9	0.750	28.163	0.654	179.783
10	0.833	31.292	0.776	213.471
11	0.917	34.422	0.776	213.471
12	1.000	37.551	0.776	213.481
13	1.083	40.680	0.918	252.568
14	1.167	43.809	1.051	289.218
15	1.250	46.939	1.051	289.218
16	1.333	50.068	1.052	289.280
17	1.417	53.197	1.548	425.675
18	1.500	56.326	2.003	550.892
19	1.583	59.456	2.003	550.892
20	1.667	62.585	2.003	551.014
21	1.750	65.714	2.636	725.009
22	1.833	68.843	3.204	881.428
23	1.917	71.973	3.204	881.428
24	2.000	75.102	3.204	881.351
25	2.083	78.231	2.925	804.490
26	2.167	81.360	2.679	736.818
27	2.250	84.490	2.679	736.818
28	2.333	87.619	2.678	736.684
29	2.417	90.748	2.315	636.925
30	2.500	93.877	2.003	550.892
31	2.583	97.007	2.003	550.892
32	2.667	100.136	2.002	550.795
33	2.750	103.265	1.799	494.858
34	2.833	106.394	1.627	447.600
35	2.917	109.524	1.627	447.600
36	3.000	112.653	1.627	447.460
37	3.083	115.782	1.394	383.489
38	3.167	118.911	1.202	330.535
39	3.250	122.041	1.202	330.535
40	3.333	125.170	1.201	330.444
41	3.417	128.299	1.077	296.275
42	3.500	131.428	0.976	268.560
43	3.583	134.558	0.976	268.560
44	3.667	137.687	0.976	268.486
45	3.750	140.816	0.893	245.508
46	3.833	143.945	0.826	227.243
47	3.917	147.075	0.826	227.243
48	4.000	150.204	0.826	227.199
49	4.083	153.333	0.784	215.612
50	4.167	156.462	0.751	206.585
51	4.250	159.592	0.751	206.585
52	4.333	162.721	0.751	206.499
53	4.417	165.850	0.680	187.025
54	4.500	168.979	0.626	172.154
55	4.583	172.109	0.626	172.154
56	4.667	175.238	0.626	172.094
57	4.750	178.367	0.583	160.314
58	4.833	181.496	0.551	151.495

59	4.917	184.626	0.551	151.495
60	5.000	187.755	0.551	151.473
61	5.083	190.884	0.536	147.514
62	5.167	194.013	0.526	144.609
63	5.250	197.143	0.526	144.609
64	5.333	200.272	0.525	144.492
65	5.417	203.401	0.460	126.541
66	5.500	206.530	0.413	113.622
67	5.583	209.659	0.413	113.622
68	5.667	212.789	0.413	113.622
69	5.750	215.918	0.413	113.622
70	5.833	219.047	0.413	113.622
71	5.917	222.176	0.413	113.622
72	6.000	225.306	0.413	113.523
73	6.083	228.435	0.369	101.373
74	6.167	231.564	0.338	92.963
75	6.250	234.693	0.338	92.963
76	6.333	237.823	0.338	92.963
77	6.417	240.952	0.338	92.963
78	6.500	244.081	0.338	92.963
79	6.583	247.210	0.338	92.963
80	6.667	250.340	0.338	92.902
81	6.750	253.469	0.315	86.738
82	6.833	256.598	0.300	82.634
83	6.917	259.727	0.300	82.634
84	7.000	262.857	0.300	82.634
85	7.083	265.986	0.300	82.634
86	7.167	269.115	0.300	82.634
87	7.250	272.244	0.300	82.634
88	7.333	275.374	0.300	82.536
89	7.417	278.503	0.270	74.201
90	7.500	281.632	0.250	68.862
91	7.583	284.761	0.250	68.862
92	7.667	287.891	0.250	68.862
93	7.750	291.020	0.250	68.862
94	7.833	294.149	0.250	68.862
95	7.917	297.278	0.250	68.862
96	8.000	300.408	0.250	68.715
97	8.083	303.537	0.211	58.157
98	8.167	306.666	0.188	51.646
99	8.250	309.795	0.188	51.646
100	8.333	312.925	0.188	51.646
101	8.417	316.054	0.188	51.646
102	8.500	319.183	0.188	51.646
103	8.583	322.312	0.188	51.646
104	8.667	325.442	0.188	51.612
105	8.750	328.571	0.180	49.473
106	8.833	331.700	0.175	48.203
107	8.917	334.829	0.175	48.203
108	9.000	337.959	0.175	48.203
109	9.083	341.088	0.175	48.203
110	9.167	344.217	0.175	48.203
111	9.250	347.346	0.175	48.203
112	9.333	350.476	0.175	48.124
113	9.417	353.605	0.159	43.793
114	9.500	356.734	0.150	41.317
115	9.583	359.863	0.150	41.317
116	9.667	362.993	0.150	41.317
117	9.750	366.122	0.150	41.317
118	9.833	369.251	0.150	41.317
119	9.917	372.380	0.150	41.317
120	10.000	375.510	0.150	41.271
121	10.083	378.639	0.142	39.080
122	10.167	381.768	0.138	37.874
123	10.250	384.897	0.138	37.874
124	10.333	388.027	0.138	37.874
125	10.417	391.156	0.138	37.874
126	10.500	394.285	0.138	37.874
127	10.583	397.414	0.138	37.874
128	10.667	400.544	0.137	37.744
129	10.750	403.673	0.117	32.205
130	10.833	406.802	0.106	29.266
131	10.917	409.931	0.106	29.266
132	11.000	413.061	0.106	29.266
133	11.083	416.190	0.106	29.266
134	11.167	419.319	0.106	29.266
135	11.250	422.448	0.106	29.266
136	11.333	425.577	0.106	29.266
137	11.417	428.707	0.106	29.266

138	11.500	431.836	0.106	29.266
139	11.583	434.965	0.106	29.266
140	11.667	438.094	0.106	29.266
141	11.750	441.224	0.106	29.266
142	11.833	444.353	0.106	29.266
143	11.917	447.482	0.106	29.266
144	12.000	450.611	0.106	29.135
145	12.083	453.741	0.089	24.609
146	12.167	456.870	0.081	22.380
147	12.250	459.999	0.081	22.380
148	12.333	463.128	0.081	22.380
149	12.417	466.258	0.081	22.380
150	12.500	469.387	0.081	22.380
151	12.583	472.516	0.081	22.380
152	12.667	475.645	0.081	22.380
153	12.750	478.775	0.081	22.380
154	12.833	481.904	0.081	22.380
155	12.917	485.033	0.081	22.380
156	13.000	488.162	0.081	22.380
157	13.083	491.292	0.081	22.380
158	13.167	494.421	0.081	22.380
159	13.250	497.550	0.081	22.380
160	13.333	500.679	0.081	22.218
161	13.417	503.809	0.064	17.604
162	13.500	506.938	0.056	15.494
163	13.583	510.067	0.056	15.494
164	13.667	513.196	0.056	15.494
165	13.750	516.326	0.056	15.494
166	13.833	519.455	0.056	15.494
167	13.917	522.584	0.056	15.494
168	14.000	525.713	0.056	15.494
169	14.083	528.843	0.056	15.494
170	14.167	531.972	0.056	15.494
171	14.250	535.101	0.056	15.494
172	14.333	538.230	0.056	15.494
173	14.417	541.360	0.056	15.494
174	14.500	544.489	0.056	15.494
175	14.583	547.618	0.056	15.494
176	14.667	550.747	0.056	15.297
177	14.750	553.877	0.039	10.603
178	14.833	557.006	0.031	8.608
179	14.917	560.135	0.031	8.608
180	15.000	563.264	0.031	8.608
181	15.083	566.394	0.031	8.608
182	15.167	569.523	0.031	8.608
183	15.250	572.652	0.031	8.608
184	15.333	575.781	0.031	8.608
185	15.417	578.911	0.031	8.608
186	15.500	582.040	0.031	8.608
187	15.583	585.169	0.031	8.608
188	15.667	588.298	0.031	8.608
189	15.750	591.428	0.031	8.608
190	15.833	594.557	0.031	8.608
191	15.917	597.686	0.031	8.608
192	16.000	600.815	0.032	8.666
193	16.083	603.945	0.036	9.859
194	16.167	607.074	0.038	10.329
195	16.250	610.203	0.038	10.329
196	16.333	613.332	0.038	10.329
197	16.417	616.462	0.038	10.329
198	16.500	619.591	0.038	10.329
199	16.583	622.720	0.038	10.329
200	16.667	625.849	0.038	10.329
201	16.750	628.978	0.038	10.329
202	16.833	632.108	0.038	10.329
203	16.917	635.237	0.038	10.329
204	17.000	638.366	0.038	10.329
205	17.083	641.495	0.038	10.329
206	17.167	644.625	0.038	10.329
207	17.250	647.754	0.038	10.329
208	17.333	650.883	0.038	10.329
209	17.417	654.012	0.038	10.329
210	17.500	657.142	0.038	10.329
211	17.583	660.271	0.038	10.329
212	17.667	663.400	0.038	10.329
213	17.750	666.529	0.038	10.329
214	17.833	669.659	0.038	10.329
215	17.917	672.788	0.038	10.329
216	18.000	675.917	0.038	10.329

217	18.083	679.046	0.038	10.329
218	18.167	682.176	0.038	10.329
219	18.250	685.305	0.038	10.329
220	18.333	688.434	0.038	10.329
221	18.417	691.563	0.038	10.329
222	18.500	694.693	0.038	10.329
223	18.583	697.822	0.038	10.329
224	18.667	700.951	0.037	10.101
225	18.750	704.080	0.024	6.579
226	18.833	707.210	0.020	5.380
227	18.917	710.339	0.020	5.380
228	19.000	713.468	0.020	5.380
229	19.083	716.597	0.020	5.380
230	19.167	719.727	0.020	5.380
231	19.250	722.856	0.020	5.380
232	19.333	725.985	0.020	5.380
233	19.417	729.114	0.020	5.380
234	19.500	732.244	0.020	5.380
235	19.583	735.373	0.020	5.380
236	19.667	738.502	0.020	5.380
237	19.750	741.631	0.020	5.380
238	19.833	744.761	0.020	5.380
239	19.917	747.890	0.020	5.380
240	20.000	751.019	0.020	5.380
241	20.083	754.148	0.020	5.380
242	20.167	757.278	0.020	5.380
243	20.250	760.407	0.020	5.380
244	20.333	763.536	0.020	5.380
245	20.417	766.665	0.020	5.380
246	20.500	769.795	0.020	5.380
247	20.583	772.924	0.020	5.380
248	20.667	776.053	0.020	5.380
249	20.750	779.182	0.020	5.380
250	20.833	782.312	0.015	4.096
		Sum = 100.000	Sum=	27507.234

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.198	0.218	0.178	0.02
2	0.17	0.60	0.237	0.218	---	0.02
3	0.25	0.60	0.237	0.218	---	0.02
4	0.33	0.60	0.237	0.218	---	0.02
5	0.42	0.60	0.237	0.218	---	0.02
6	0.50	0.70	0.277	0.218	---	0.06
7	0.58	0.70	0.277	0.218	---	0.06
8	0.67	0.70	0.277	0.218	---	0.06
9	0.75	0.70	0.277	0.218	---	0.06
10	0.83	0.70	0.277	0.218	---	0.06
11	0.92	0.70	0.277	0.218	---	0.06
12	1.00	0.80	0.316	0.218	---	0.10
13	1.08	0.80	0.316	0.218	---	0.10
14	1.17	0.80	0.316	0.218	---	0.10
15	1.25	0.80	0.316	0.218	---	0.10
16	1.33	0.80	0.316	0.218	---	0.10
17	1.42	0.80	0.316	0.218	---	0.10
18	1.50	0.80	0.316	0.218	---	0.10
19	1.58	0.80	0.316	0.218	---	0.10
20	1.67	0.80	0.316	0.218	---	0.10
21	1.75	0.80	0.316	0.218	---	0.10
22	1.83	0.80	0.316	0.218	---	0.10
23	1.92	0.80	0.316	0.218	---	0.10
24	2.00	0.90	0.356	0.218	---	0.14
25	2.08	0.80	0.316	0.218	---	0.10
26	2.17	0.90	0.356	0.218	---	0.14
27	2.25	0.90	0.356	0.218	---	0.14
28	2.33	0.90	0.356	0.218	---	0.14
29	2.42	0.90	0.356	0.218	---	0.14
30	2.50	0.90	0.356	0.218	---	0.14
31	2.58	0.90	0.356	0.218	---	0.14
32	2.67	0.90	0.356	0.218	---	0.14
33	2.75	1.00	0.395	0.218	---	0.18
34	2.83	1.00	0.395	0.218	---	0.18
35	2.92	1.00	0.395	0.218	---	0.18
36	3.00	1.00	0.395	0.218	---	0.18
37	3.08	1.00	0.395	0.218	---	0.18
38	3.17	1.10	0.435	0.218	---	0.22
39	3.25	1.10	0.435	0.218	---	0.22

40	3.33	1.10	0.435	0.218	---	0.22
41	3.42	1.20	0.474	0.218	---	0.26
42	3.50	1.30	0.514	0.218	---	0.30
43	3.58	1.40	0.553	0.218	---	0.34
44	3.67	1.40	0.553	0.218	---	0.34
45	3.75	1.50	0.593	0.218	---	0.38
46	3.83	1.50	0.593	0.218	---	0.38
47	3.92	1.60	0.632	0.218	---	0.41
48	4.00	1.60	0.632	0.218	---	0.41
49	4.08	1.70	0.672	0.218	---	0.45
50	4.17	1.80	0.711	0.218	---	0.49
51	4.25	1.90	0.751	0.218	---	0.53
52	4.33	2.00	0.790	0.218	---	0.57
53	4.42	2.10	0.830	0.218	---	0.61
54	4.50	2.10	0.830	0.218	---	0.61
55	4.58	2.20	0.869	0.218	---	0.65
56	4.67	2.30	0.909	0.218	---	0.69
57	4.75	2.40	0.948	0.218	---	0.73
58	4.83	2.40	0.948	0.218	---	0.73
59	4.92	2.50	0.988	0.218	---	0.77
60	5.00	2.60	1.027	0.218	---	0.81
61	5.08	3.10	1.225	0.218	---	1.01
62	5.17	3.60	1.422	0.218	---	1.20
63	5.25	3.90	1.541	0.218	---	1.32
64	5.33	4.20	1.659	0.218	---	1.44
65	5.42	4.70	1.857	0.218	---	1.64
66	5.50	5.60	2.212	0.218	---	1.99
67	5.58	1.90	0.751	0.218	---	0.53
68	5.67	0.90	0.356	0.218	---	0.14
69	5.75	0.60	0.237	0.218	---	0.02
70	5.83	0.50	0.198	0.218	0.178	0.02
71	5.92	0.30	0.119	0.218	0.107	0.01
72	6.00	0.20	0.079	0.218	0.071	0.01
Sum =		100.0			Sum =	24.2

Flood volume = Effective rainfall 2.02(In)
times area 27294.0(Ac.)/[(In)/(Ft.)] = 4583.2(Ac.Ft)
Total soil loss = 1.28(In)
Total soil loss = 2905.083(Ac.Ft)
Total rainfall = 3.29(In)
Flood volume = 199644496.8 Cubic Feet
Total soil loss = 126545432.4 Cubic Feet

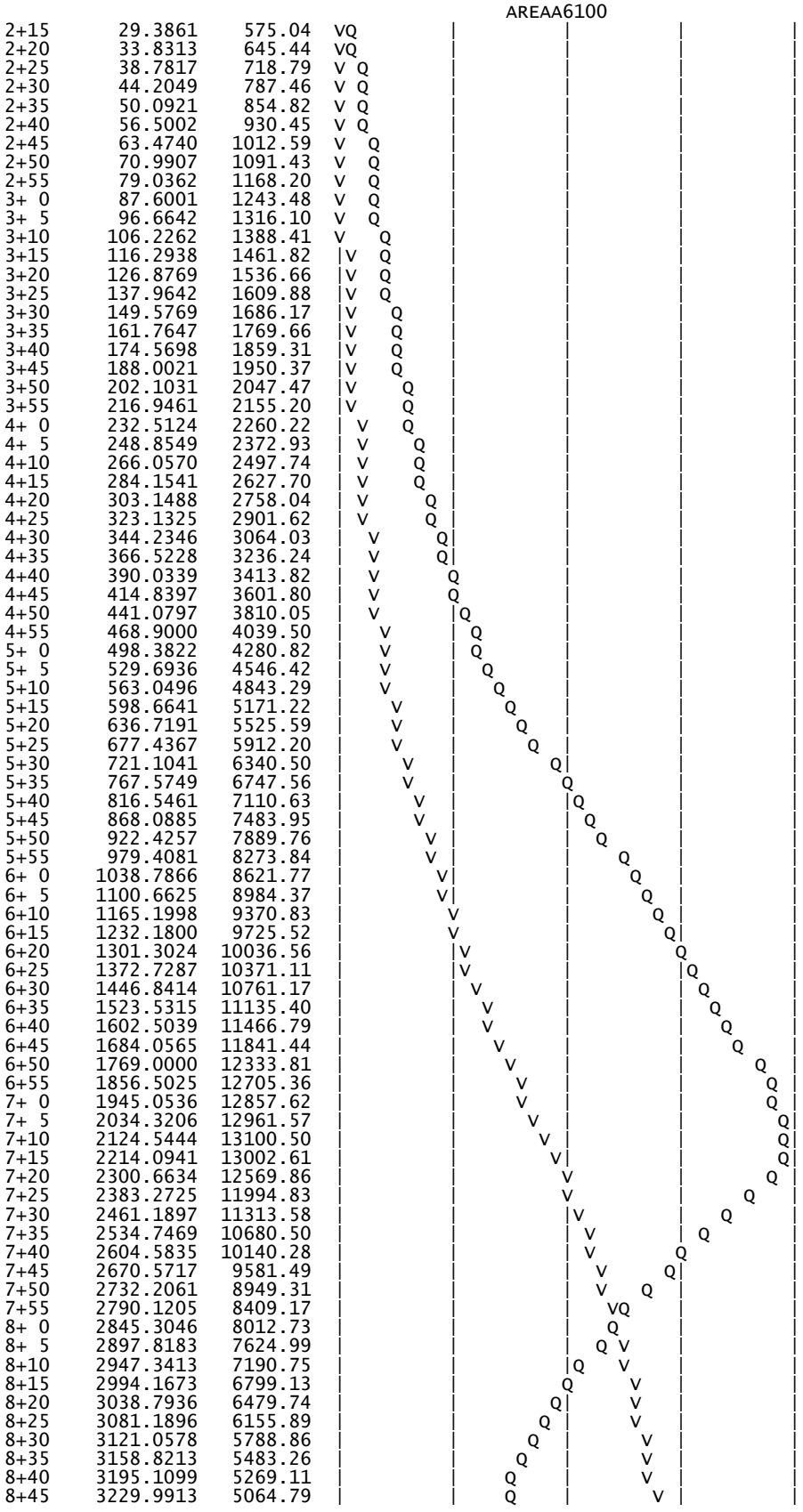
Peak flow rate of this hydrograph = 13100.503(CFS)

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6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	3300.0	6600.0	9900.0	13200.0
0+ 5	0.0052	0.75	Q				
0+10	0.0206	2.24	Q				
0+15	0.0461	3.71	Q				
0+20	0.0819	5.19	Q				
0+25	0.1325	7.36	Q				
0+30	0.2130	11.68	Q				
0+35	0.3335	17.50	Q				
0+40	0.4940	23.31	Q				
0+45	0.6994	29.82	Q				
0+50	0.9636	38.36	Q				
0+55	1.2958	48.24	Q				
1+ 0	1.7064	59.62	Q				
1+ 5	2.2110	73.26	Q				
1+10	2.8240	89.01	Q				
1+15	3.5546	106.09	Q				
1+20	4.4123	124.54	Q				
1+25	5.4249	147.03	Q				
1+30	6.6199	173.50	Q				
1+35	8.0069	201.40	Q				
1+40	9.5956	230.68	Q				
1+45	11.4189	264.74	Q				
1+50	13.5348	307.23	Q				
1+55	15.9772	354.64	VQ				
2+ 0	18.7670	405.08	VQ				
2+ 5	21.9038	455.46	VQ				
2+10	25.4258	511.40	VQ				



2+15	29.3861	575.04	VQ
2+20	33.8313	645.44	VQ
2+25	38.7817	718.79	V Q
2+30	44.2049	787.46	V Q
2+35	50.0921	854.82	V Q
2+40	56.5002	930.45	V Q
2+45	63.4740	1012.59	V Q
2+50	70.9907	1091.43	V Q
2+55	79.0362	1168.20	V Q
3+ 0	87.6001	1243.48	V Q
3+ 5	96.6642	1316.10	V Q
3+10	106.2262	1388.41	V Q
3+15	116.2938	1461.82	V Q
3+20	126.8769	1536.66	V Q
3+25	137.9642	1609.88	V Q
3+30	149.5769	1686.17	V Q
3+35	161.7647	1769.66	V Q
3+40	174.5698	1859.31	V Q
3+45	188.0021	1950.37	V Q
3+50	202.1031	2047.47	V Q
3+55	216.9461	2155.20	V Q
4+ 0	232.5124	2260.22	V Q
4+ 5	248.8549	2372.93	V Q
4+10	266.0570	2497.74	V Q
4+15	284.1541	2627.70	V Q
4+20	303.1488	2758.04	V Q
4+25	323.1325	2901.62	V Q
4+30	344.2346	3064.03	V Q
4+35	366.5228	3236.24	V Q
4+40	390.0339	3413.82	V Q
4+45	414.8397	3601.80	V Q
4+50	441.0797	3810.05	V Q
4+55	468.9000	4039.50	V Q
5+ 0	498.3822	4280.82	V Q
5+ 5	529.6936	4546.42	V Q
5+10	563.0496	4843.29	V Q
5+15	598.6641	5171.22	V Q
5+20	636.7191	5525.59	V Q
5+25	677.4367	5912.20	V Q
5+30	721.1041	6340.50	V Q
5+35	767.5749	6747.56	V Q
5+40	816.5461	7110.63	V Q
5+45	868.0885	7483.95	V Q
5+50	922.4257	7889.76	V Q
5+55	979.4081	8273.84	V Q
6+ 0	1038.7866	8621.77	V Q
6+ 5	1100.6625	8984.37	V Q
6+10	1165.1998	9370.83	V Q
6+15	1232.1800	9725.52	V Q
6+20	1301.3024	10036.56	V Q
6+25	1372.7287	10371.11	V Q
6+30	1446.8414	10761.17	V Q
6+35	1523.5315	11135.40	V Q
6+40	1602.5039	11466.79	V Q
6+45	1684.0565	11841.44	V Q
6+50	1769.0000	12333.81	V Q
6+55	1856.5025	12705.36	V Q
7+ 0	1945.0536	12857.62	V Q
7+ 5	2034.3206	12961.57	V Q
7+10	2124.5444	13100.50	V Q
7+15	2214.0941	13002.61	V Q
7+20	2300.6634	12569.86	V Q
7+25	2383.2725	11994.83	V Q
7+30	2461.1897	11313.58	V Q
7+35	2534.7469	10680.50	V Q
7+40	2604.5835	10140.28	V Q
7+45	2670.5717	9581.49	V Q
7+50	2732.2061	8949.31	V Q
7+55	2790.1205	8409.17	V Q
8+ 0	2845.3046	8012.73	V Q
8+ 5	2897.8183	7624.99	V Q
8+10	2947.3413	7190.75	V Q
8+15	2994.1673	6799.13	V Q
8+20	3038.7936	6479.74	V Q
8+25	3081.1896	6155.89	V Q
8+30	3121.0578	5788.86	V Q
8+35	3158.8213	5483.26	V Q
8+40	3195.1099	5269.11	V Q
8+45	3229.9913	5064.79	V Q

8+50	3263.3103	4837.91	
8+55	3295.2782	4641.73	
9+ 0	3326.2102	4491.33	
9+ 5	3356.1272	4343.95	
9+10	3384.9304	4182.22	
9+15	3412.7686	4042.12	
9+20	3439.8514	3932.41	
9+25	3466.1785	3822.70	
9+30	3491.6599	3699.89	
9+35	3516.3354	3582.88	
9+40	3540.2820	3477.06	
9+45	3563.4644	3366.07	
9+50	3585.7860	3241.10	
9+55	3607.3747	3134.67	
10+ 0	3628.4016	3053.11	
10+ 5	3648.8796	2973.40	
10+10	3668.7569	2886.18	
10+15	3688.1094	2809.98	
10+20	3707.0373	2748.33	
10+25	3725.5317	2685.39	
10+30	3743.5388	2614.63	
10+35	3761.0529	2543.04	
10+40	3778.0820	2472.63	
10+45	3794.5899	2396.95	
10+50	3810.5079	2311.29	
10+55	3825.9753	2245.87	
11+ 0	3841.1609	2204.95	
11+ 5	3856.0905	2167.77	
11+10	3870.7395	2127.04	
11+15	3885.0811	2082.39	
11+20	3899.0939	2034.66	
11+25	3912.7475	1982.51	
11+30	3925.9920	1923.10	
11+35	3938.9187	1876.95	
11+40	3951.6354	1846.47	
11+45	3964.1579	1818.28	
11+50	3976.4753	1788.49	
11+55	3988.5720	1756.44	
12+ 0	4000.4341	1722.37	
12+ 5	4012.0418	1685.44	
12+10	4023.3672	1644.45	
12+15	4034.4542	1609.84	
12+20	4045.3521	1582.38	
12+25	4056.0590	1554.63	
12+30	4066.5548	1523.99	
12+35	4076.8209	1490.65	
12+40	4086.8400	1454.76	
12+45	4096.5900	1415.71	
12+50	4106.0390	1371.99	
12+55	4115.2514	1337.64	
13+ 0	4124.2961	1313.30	
13+ 5	4133.1755	1289.28	
13+10	4141.8687	1262.26	
13+15	4150.3567	1232.45	
13+20	4158.6240	1200.42	
13+25	4166.6464	1164.85	
13+30	4174.3866	1123.88	
13+35	4181.9321	1095.60	
13+40	4189.3741	1080.57	
13+45	4196.7330	1068.52	
13+50	4204.0058	1056.01	
13+55	4211.1863	1042.61	
14+ 0	4218.2689	1028.39	
14+ 5	4225.2469	1013.20	
14+10	4232.1094	996.43	
14+15	4238.8698	981.61	
14+20	4245.5418	968.77	
14+25	4252.1209	955.29	
14+30	4258.5976	940.42	
14+35	4264.9631	924.26	
14+40	4271.2098	907.02	
14+45	4277.3255	888.00	
14+50	4283.2935	866.56	
14+55	4289.1487	850.17	
15+ 0	4294.9245	838.65	
15+ 5	4300.6254	827.77	
15+10	4306.2455	816.03	
15+15	4311.7787	803.42	
15+20	4317.2189	789.92	

15+25	4322.5593	775.44	Q			V
15+30	4327.7903	759.53	Q			V
15+35	4332.9269	745.84	Q			V
15+40	4337.9830	734.14	Q			V
15+45	4342.9533	721.69	Q			V
15+50	4347.8265	707.59	Q			V
15+55	4352.5929	692.08	Q			V
16+ 0	4357.2448	675.46	Q			V
16+ 5	4361.7698	657.03	Q			V
16+10	4366.1493	635.90	Q			V
16+15	4370.4303	621.60	Q			V
16+20	4374.6557	613.54	Q			V
16+25	4378.8363	607.02	Q			V
16+30	4382.9728	600.62	Q			V
16+35	4387.0638	594.01	Q			V
16+40	4391.1064	586.99	Q			V
16+45	4395.0986	579.66	Q			V
16+50	4399.0372	571.89	Q			V
16+55	4402.9187	563.59	Q			V
17+ 0	4406.7408	554.96	Q			V
17+ 5	4410.4953	545.15	Q			V
17+10	4414.1723	533.91	Q			V
17+15	4417.7638	521.48	Q			V
17+20	4421.2634	508.14	Q			V
17+25	4424.6601	493.21	Q			V
17+30	4427.9389	476.08	Q			V
17+35	4431.1382	464.55	Q			V
17+40	4434.2912	457.81	Q			V
17+45	4437.4056	452.21	Q			V
17+50	4440.4814	446.61	Q			V
17+55	4443.5171	440.77	Q			V
18+ 0	4446.5112	434.74	Q			V
18+ 5	4449.4607	428.27	Q			V
18+10	4452.3634	421.48	Q			V
18+15	4455.2164	414.25	Q			V
18+20	4458.0170	406.65	Q			V
18+25	4460.7568	397.82	Q			V
18+30	4463.4260	387.57	Q			V
18+35	4466.0165	376.14	Q			V
18+40	4468.5220	363.80	Q			V
18+45	4470.9326	350.02	Q			V
18+50	4473.2339	334.14	Q			V
18+55	4475.4657	324.06	Q			V
19+ 0	4477.6601	318.62	Q			V
19+ 5	4479.8247	314.30	Q			V
19+10	4481.9601	310.06	Q			V
19+15	4484.0649	305.62	Q			V
19+20	4486.1376	300.95	Q			V
19+25	4488.1769	296.11	Q			V
19+30	4490.1829	291.27	Q			V
19+35	4492.1547	286.30	Q			V
19+40	4494.0893	280.90	Q			V
19+45	4495.9795	274.46	Q			V
19+50	4497.8161	266.69	Q			V
19+55	4499.5929	257.99	Q			V
20+ 0	4501.3043	248.48	Q			V
20+ 5	4502.9420	237.79	Q			V
20+10	4504.4942	225.39	Q			V
20+15	4506.0045	219.29	Q			V
20+20	4507.5063	218.06	Q			V
20+25	4509.0093	218.24	Q			V
20+30	4510.5153	218.67	Q			V
20+35	4512.0248	219.18	Q			V
20+40	4513.5377	219.67	Q			V
20+45	4515.0553	220.35	Q			V
20+50	4516.5769	220.95	Q			V
20+55	4518.1022	221.47	Q			V
21+ 0	4519.6316	222.07	Q			V
21+ 5	4521.1670	222.93	Q			V
21+10	4522.7106	224.13	Q			V
21+15	4524.2638	225.53	Q			V
21+20	4525.8268	226.95	Q			V
21+25	4527.4009	228.56	Q			V
21+30	4528.9887	230.54	Q			V
21+35	4530.5791	230.93	Q			V
21+40	4532.1641	230.15	Q			V
21+45	4533.7412	228.98	Q			V
21+50	4535.3077	227.46	Q			V
21+55	4536.8633	225.88	Q			V

22+ 0	4538.4079	224.28	Q				V
22+ 5	4539.9404	222.52	Q				V
22+10	4541.4595	220.56	Q				V
22+15	4542.9637	218.42	Q				V
22+20	4544.4528	216.22	Q				V
22+25	4545.9258	213.88	Q				V
22+30	4547.3823	211.48	Q				V
22+35	4548.8213	208.94	Q				V
22+40	4550.2424	206.35	Q				V
22+45	4551.6444	203.56	Q				V
22+50	4553.0250	200.46	Q				V
22+55	4554.3836	197.28	Q				V
23+ 0	4555.7179	193.74	Q				V
23+ 5	4557.0266	190.01	Q				V
23+10	4558.3092	186.23	Q				V
23+15	4559.5647	182.30	Q				V
23+20	4560.7918	178.17	Q				V
23+25	4561.9891	173.86	Q				V
23+30	4563.1561	169.44	Q				V
23+35	4564.2904	164.71	Q				V
23+40	4565.3906	159.75	Q				V
23+45	4566.4512	153.99	Q				V
23+50	4567.4655	147.28	Q				V
23+55	4568.4286	139.84	Q				V
24+ 0	4569.3351	131.63	Q				V
24+ 5	4570.1787	122.50	Q				V
24+10	4570.9512	112.16	Q				V
24+15	4571.6842	106.43	Q				V
24+20	4572.3980	103.65	Q				V
24+25	4573.0978	101.61	Q				V
24+30	4573.7841	99.65	Q				V
24+35	4574.4561	97.57	Q				V
24+40	4575.1135	95.46	Q				V
24+45	4575.7555	93.22	Q				V
24+50	4576.3817	90.93	Q				V
24+55	4576.9908	88.44	Q				V
25+ 0	4577.5813	85.73	Q				V
25+ 5	4578.1516	82.81	Q				V
25+10	4578.7003	79.68	Q				V
25+15	4579.2264	76.38	Q				V
25+20	4579.7294	73.04	Q				V
25+25	4580.2079	69.48	Q				V
25+30	4580.6605	65.71	Q				V
25+35	4581.0859	61.78	Q				V
25+40	4581.4840	57.79	Q				V
25+45	4581.8531	53.60	Q				V
25+50	4582.1904	48.99	Q				V
25+55	4582.4887	43.31	Q				V
26+ 0	4582.7413	36.67	Q				V
26+ 5	4582.9438	29.40	Q				V
26+10	4583.0910	21.38	Q				V
26+15	4583.1744	12.10	Q				V
26+20	4583.1968	3.24	Q				V
26+25	4583.2028	0.88	Q				V
26+30	4583.2049	0.29	Q				V
26+35	4583.2061	0.19	Q				V
26+40	4583.2068	0.09	Q				V
26+45	4583.2070	0.03	Q				V

U n i t H y d r o g r a p h A n a l y s i s

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Study date 04/20/17 File: AREAA24100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

TRI-8 Builders - S/N 615

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

MORONGO WASH & MISSION CREEK
EXISTING CONDITION
AREA "A"
100YR-24HR

Drainage Area = 27294.00(Ac.) = 42.647 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 27294.00(Ac.) = 42.647 Sq. Mi.
Length along longest watercourse = 128045.00(Ft.)
Length along longest watercourse measured to centroid = 64610.00(Ft.)
Length along longest watercourse = 24.251 Mi.
Length along longest watercourse measured to centroid = 12.237 Mi.
Difference in elevation = 7588.00(Ft.)
Slope along watercourse = 312.8950 Ft./Mi.
Average Manning's 'N' = 0.038
Lag time = 2.663 Hr.
Lag time = 159.78 Min.
25% of lag time = 39.95 Min.
40% of lag time = 63.91 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
382.00	1.40	534.80
423.00	1.60	676.80
839.00	1.80	1510.20
3571.00	2.00	7142.00
5583.00	2.50	13957.50
6284.00	3.00	18852.00
7196.00	3.50	25186.00
3016.00	4.00	12064.00

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
565.00	4.50	2542.50
580.00	5.00	2900.00
1409.00	6.00	8454.00
3123.00	6.50	20299.50
7020.00	7.00	49140.00
6934.00	8.00	55472.00
6683.00	10.00	66830.00
980.00	12.00	11760.00

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 2.928(In)
Area Averaged 100-Year Rainfall = 7.965(In)

Point rain (area averaged) = 7.965(In)
Areal adjustment factor = 95.74 %
Adjusted average point rain = 7.626(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
27294.000	82.32	0.000

Total Area Entered = 27294.00(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
82.3	82.3	0.218	0.000	0.218	1.000	0.218
					Sum (F) =	0.218

Area averaged mean soil loss (F) (In/Hr) = 0.218
Minimum soil loss rate ((In/Hr)) = 0.109
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
DESERT S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	3.129	0.138	37.874
2	0.167	6.258	0.275	75.748
3	0.250	9.388	0.275	75.748
4	0.333	12.517	0.275	75.749
5	0.417	15.646	0.402	110.551
6	0.500	18.775	0.526	144.609
7	0.583	21.905	0.526	144.609
8	0.667	25.034	0.526	144.613
9	0.750	28.163	0.654	179.783
10	0.833	31.292	0.776	213.471
11	0.917	34.422	0.776	213.471
12	1.000	37.551	0.776	213.481
13	1.083	40.680	0.918	252.568
14	1.167	43.809	1.051	289.218
15	1.250	46.939	1.051	289.218
16	1.333	50.068	1.052	289.280
17	1.417	53.197	1.548	425.675
18	1.500	56.326	2.003	550.892
19	1.583	59.456	2.003	550.892
20	1.667	62.585	2.003	551.014
21	1.750	65.714	2.636	725.009
22	1.833	68.843	3.204	881.428
23	1.917	71.973	3.204	881.428
24	2.000	75.102	3.204	881.351
25	2.083	78.231	2.925	804.490
26	2.167	81.360	2.679	736.818
27	2.250	84.490	2.679	736.818
28	2.333	87.619	2.678	736.684
29	2.417	90.748	2.315	636.925
30	2.500	93.877	2.003	550.892
31	2.583	97.007	2.003	550.892
32	2.667	100.136	2.002	550.795
33	2.750	103.265	1.799	494.858
34	2.833	106.394	1.627	447.600
35	2.917	109.524	1.627	447.600
36	3.000	112.653	1.627	447.460
37	3.083	115.782	1.394	383.489
38	3.167	118.911	1.202	330.535
39	3.250	122.041	1.202	330.535
40	3.333	125.170	1.201	330.444
41	3.417	128.299	1.077	296.275
42	3.500	131.428	0.976	268.560
43	3.583	134.558	0.976	268.560
44	3.667	137.687	0.976	268.486
45	3.750	140.816	0.893	245.508
46	3.833	143.945	0.826	227.243
47	3.917	147.075	0.826	227.243
48	4.000	150.204	0.826	227.199
49	4.083	153.333	0.784	215.612
50	4.167	156.462	0.751	206.585
51	4.250	159.592	0.751	206.585
52	4.333	162.721	0.751	206.499
53	4.417	165.850	0.680	187.025
54	4.500	168.979	0.626	172.154

55	4.583	172.109	0.626	172.154
56	4.667	175.238	0.626	172.094
57	4.750	178.367	0.583	160.314
58	4.833	181.496	0.551	151.495
59	4.917	184.626	0.551	151.495
60	5.000	187.755	0.551	151.473
61	5.083	190.884	0.536	147.514
62	5.167	194.013	0.526	144.609
63	5.250	197.143	0.526	144.609
64	5.333	200.272	0.525	144.492
65	5.417	203.401	0.460	126.541
66	5.500	206.530	0.413	113.622
67	5.583	209.659	0.413	113.622
68	5.667	212.789	0.413	113.622
69	5.750	215.918	0.413	113.622
70	5.833	219.047	0.413	113.622
71	5.917	222.176	0.413	113.622
72	6.000	225.306	0.413	113.523
73	6.083	228.435	0.369	101.373
74	6.167	231.564	0.338	92.963
75	6.250	234.693	0.338	92.963
76	6.333	237.823	0.338	92.963
77	6.417	240.952	0.338	92.963
78	6.500	244.081	0.338	92.963
79	6.583	247.210	0.338	92.963
80	6.667	250.340	0.338	92.902
81	6.750	253.469	0.315	86.738
82	6.833	256.598	0.300	82.634
83	6.917	259.727	0.300	82.634
84	7.000	262.857	0.300	82.634
85	7.083	265.986	0.300	82.634
86	7.167	269.115	0.300	82.634
87	7.250	272.244	0.300	82.634
88	7.333	275.374	0.300	82.536
89	7.417	278.503	0.270	74.201
90	7.500	281.632	0.250	68.862
91	7.583	284.761	0.250	68.862
92	7.667	287.891	0.250	68.862
93	7.750	291.020	0.250	68.862
94	7.833	294.149	0.250	68.862
95	7.917	297.278	0.250	68.862
96	8.000	300.408	0.250	68.715
97	8.083	303.537	0.211	58.157
98	8.167	306.666	0.188	51.646
99	8.250	309.795	0.188	51.646
100	8.333	312.925	0.188	51.646
101	8.417	316.054	0.188	51.646
102	8.500	319.183	0.188	51.646
103	8.583	322.312	0.188	51.646
104	8.667	325.442	0.188	51.612
105	8.750	328.571	0.180	49.473
106	8.833	331.700	0.175	48.203
107	8.917	334.829	0.175	48.203
108	9.000	337.959	0.175	48.203
109	9.083	341.088	0.175	48.203
110	9.167	344.217	0.175	48.203
111	9.250	347.346	0.175	48.203
112	9.333	350.476	0.175	48.124
113	9.417	353.605	0.159	43.793
114	9.500	356.734	0.150	41.317
115	9.583	359.863	0.150	41.317
116	9.667	362.993	0.150	41.317
117	9.750	366.122	0.150	41.317
118	9.833	369.251	0.150	41.317
119	9.917	372.380	0.150	41.317
120	10.000	375.510	0.150	41.271
121	10.083	378.639	0.142	39.080
122	10.167	381.768	0.138	37.874
123	10.250	384.897	0.138	37.874
124	10.333	388.027	0.138	37.874
125	10.417	391.156	0.138	37.874
126	10.500	394.285	0.138	37.874
127	10.583	397.414	0.138	37.874
128	10.667	400.544	0.137	37.744
129	10.750	403.673	0.117	32.205
130	10.833	406.802	0.106	29.266
131	10.917	409.931	0.106	29.266
132	11.000	413.061	0.106	29.266
133	11.083	416.190	0.106	29.266

134	11.167	419.319	0.106	29.266
135	11.250	422.448	0.106	29.266
136	11.333	425.577	0.106	29.266
137	11.417	428.707	0.106	29.266
138	11.500	431.836	0.106	29.266
139	11.583	434.965	0.106	29.266
140	11.667	438.094	0.106	29.266
141	11.750	441.224	0.106	29.266
142	11.833	444.353	0.106	29.266
143	11.917	447.482	0.106	29.266
144	12.000	450.611	0.106	29.135
145	12.083	453.741	0.089	24.609
146	12.167	456.870	0.081	22.380
147	12.250	459.999	0.081	22.380
148	12.333	463.128	0.081	22.380
149	12.417	466.258	0.081	22.380
150	12.500	469.387	0.081	22.380
151	12.583	472.516	0.081	22.380
152	12.667	475.645	0.081	22.380
153	12.750	478.775	0.081	22.380
154	12.833	481.904	0.081	22.380
155	12.917	485.033	0.081	22.380
156	13.000	488.162	0.081	22.380
157	13.083	491.292	0.081	22.380
158	13.167	494.421	0.081	22.380
159	13.250	497.550	0.081	22.380
160	13.333	500.679	0.081	22.218
161	13.417	503.809	0.064	17.604
162	13.500	506.938	0.056	15.494
163	13.583	510.067	0.056	15.494
164	13.667	513.196	0.056	15.494
165	13.750	516.326	0.056	15.494
166	13.833	519.455	0.056	15.494
167	13.917	522.584	0.056	15.494
168	14.000	525.713	0.056	15.494
169	14.083	528.843	0.056	15.494
170	14.167	531.972	0.056	15.494
171	14.250	535.101	0.056	15.494
172	14.333	538.230	0.056	15.494
173	14.417	541.360	0.056	15.494
174	14.500	544.489	0.056	15.494
175	14.583	547.618	0.056	15.494
176	14.667	550.747	0.056	15.297
177	14.750	553.877	0.039	10.603
178	14.833	557.006	0.031	8.608
179	14.917	560.135	0.031	8.608
180	15.000	563.264	0.031	8.608
181	15.083	566.394	0.031	8.608
182	15.167	569.523	0.031	8.608
183	15.250	572.652	0.031	8.608
184	15.333	575.781	0.031	8.608
185	15.417	578.911	0.031	8.608
186	15.500	582.040	0.031	8.608
187	15.583	585.169	0.031	8.608
188	15.667	588.298	0.031	8.608
189	15.750	591.428	0.031	8.608
190	15.833	594.557	0.031	8.608
191	15.917	597.686	0.031	8.608
192	16.000	600.815	0.032	8.666
193	16.083	603.945	0.036	9.859
194	16.167	607.074	0.038	10.329
195	16.250	610.203	0.038	10.329
196	16.333	613.332	0.038	10.329
197	16.417	616.462	0.038	10.329
198	16.500	619.591	0.038	10.329
199	16.583	622.720	0.038	10.329
200	16.667	625.849	0.038	10.329
201	16.750	628.978	0.038	10.329
202	16.833	632.108	0.038	10.329
203	16.917	635.237	0.038	10.329
204	17.000	638.366	0.038	10.329
205	17.083	641.495	0.038	10.329
206	17.167	644.625	0.038	10.329
207	17.250	647.754	0.038	10.329
208	17.333	650.883	0.038	10.329
209	17.417	654.012	0.038	10.329
210	17.500	657.142	0.038	10.329
211	17.583	660.271	0.038	10.329
212	17.667	663.400	0.038	10.329

213	17.750	666.529	0.038	10.329
214	17.833	669.659	0.038	10.329
215	17.917	672.788	0.038	10.329
216	18.000	675.917	0.038	10.329
217	18.083	679.046	0.038	10.329
218	18.167	682.176	0.038	10.329
219	18.250	685.305	0.038	10.329
220	18.333	688.434	0.038	10.329
221	18.417	691.563	0.038	10.329
222	18.500	694.693	0.038	10.329
223	18.583	697.822	0.038	10.329
224	18.667	700.951	0.037	10.101
225	18.750	704.080	0.024	6.579
226	18.833	707.210	0.020	5.380
227	18.917	710.339	0.020	5.380
228	19.000	713.468	0.020	5.380
229	19.083	716.597	0.020	5.380
230	19.167	719.727	0.020	5.380
231	19.250	722.856	0.020	5.380
232	19.333	725.985	0.020	5.380
233	19.417	729.114	0.020	5.380
234	19.500	732.244	0.020	5.380
235	19.583	735.373	0.020	5.380
236	19.667	738.502	0.020	5.380
237	19.750	741.631	0.020	5.380
238	19.833	744.761	0.020	5.380
239	19.917	747.890	0.020	5.380
240	20.000	751.019	0.020	5.380
241	20.083	754.148	0.020	5.380
242	20.167	757.278	0.020	5.380
243	20.250	760.407	0.020	5.380
244	20.333	763.536	0.020	5.380
245	20.417	766.665	0.020	5.380
246	20.500	769.795	0.020	5.380
247	20.583	772.924	0.020	5.380
248	20.667	776.053	0.020	5.380
249	20.750	779.182	0.020	5.380
250	20.833	782.312	0.015	4.096
			Sum = 100.000	Sum= 27507.234

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.061	0.386	0.055	0.01
2	0.17	0.07	0.061	0.384	0.055	0.01
3	0.25	0.07	0.061	0.383	0.055	0.01
4	0.33	0.10	0.092	0.381	0.082	0.01
5	0.42	0.10	0.092	0.380	0.082	0.01
6	0.50	0.10	0.092	0.378	0.082	0.01
7	0.58	0.10	0.092	0.377	0.082	0.01
8	0.67	0.10	0.092	0.375	0.082	0.01
9	0.75	0.10	0.092	0.374	0.082	0.01
10	0.83	0.13	0.122	0.372	0.110	0.01
11	0.92	0.13	0.122	0.371	0.110	0.01
12	1.00	0.13	0.122	0.369	0.110	0.01
13	1.08	0.10	0.092	0.368	0.082	0.01
14	1.17	0.10	0.092	0.366	0.082	0.01
15	1.25	0.10	0.092	0.365	0.082	0.01
16	1.33	0.10	0.092	0.364	0.082	0.01
17	1.42	0.10	0.092	0.362	0.082	0.01
18	1.50	0.10	0.092	0.361	0.082	0.01
19	1.58	0.10	0.092	0.359	0.082	0.01
20	1.67	0.10	0.092	0.358	0.082	0.01
21	1.75	0.10	0.092	0.356	0.082	0.01
22	1.83	0.13	0.122	0.355	0.110	0.01
23	1.92	0.13	0.122	0.354	0.110	0.01
24	2.00	0.13	0.122	0.352	0.110	0.01
25	2.08	0.13	0.122	0.351	0.110	0.01
26	2.17	0.13	0.122	0.349	0.110	0.01
27	2.25	0.13	0.122	0.348	0.110	0.01
28	2.33	0.13	0.122	0.346	0.110	0.01
29	2.42	0.13	0.122	0.345	0.110	0.01
30	2.50	0.13	0.122	0.344	0.110	0.01
31	2.58	0.17	0.153	0.342	0.137	0.02
32	2.67	0.17	0.153	0.341	0.137	0.02
33	2.75	0.17	0.153	0.339	0.137	0.02
34	2.83	0.17	0.153	0.338	0.137	0.02
35	2.92	0.17	0.153	0.337	0.137	0.02

36	3.00	0.17	0.153	0.335	0.137	0.02
37	3.08	0.17	0.153	0.334	0.137	0.02
38	3.17	0.17	0.153	0.332	0.137	0.02
39	3.25	0.17	0.153	0.331	0.137	0.02
40	3.33	0.17	0.153	0.330	0.137	0.02
41	3.42	0.17	0.153	0.328	0.137	0.02
42	3.50	0.17	0.153	0.327	0.137	0.02
43	3.58	0.17	0.153	0.326	0.137	0.02
44	3.67	0.17	0.153	0.324	0.137	0.02
45	3.75	0.17	0.153	0.323	0.137	0.02
46	3.83	0.20	0.183	0.321	0.165	0.02
47	3.92	0.20	0.183	0.320	0.165	0.02
48	4.00	0.20	0.183	0.319	0.165	0.02
49	4.08	0.20	0.183	0.317	0.165	0.02
50	4.17	0.20	0.183	0.316	0.165	0.02
51	4.25	0.20	0.183	0.315	0.165	0.02
52	4.33	0.23	0.214	0.313	0.192	0.02
53	4.42	0.23	0.214	0.312	0.192	0.02
54	4.50	0.23	0.214	0.311	0.192	0.02
55	4.58	0.23	0.214	0.309	0.192	0.02
56	4.67	0.23	0.214	0.308	0.192	0.02
57	4.75	0.23	0.214	0.307	0.192	0.02
58	4.83	0.27	0.244	0.305	0.220	0.02
59	4.92	0.27	0.244	0.304	0.220	0.02
60	5.00	0.27	0.244	0.303	0.220	0.02
61	5.08	0.20	0.183	0.301	0.165	0.02
62	5.17	0.20	0.183	0.300	0.165	0.02
63	5.25	0.20	0.183	0.299	0.165	0.02
64	5.33	0.23	0.214	0.297	0.192	0.02
65	5.42	0.23	0.214	0.296	0.192	0.02
66	5.50	0.23	0.214	0.295	0.192	0.02
67	5.58	0.27	0.244	0.294	0.220	0.02
68	5.67	0.27	0.244	0.292	0.220	0.02
69	5.75	0.27	0.244	0.291	0.220	0.02
70	5.83	0.27	0.244	0.290	0.220	0.02
71	5.92	0.27	0.244	0.288	0.220	0.02
72	6.00	0.27	0.244	0.287	0.220	0.02
73	6.08	0.30	0.275	0.286	0.247	0.03
74	6.17	0.30	0.275	0.285	0.247	0.03
75	6.25	0.30	0.275	0.283	0.247	0.03
76	6.33	0.30	0.275	0.282	0.247	0.03
77	6.42	0.30	0.275	0.281	0.247	0.03
78	6.50	0.30	0.275	0.280	0.247	0.03
79	6.58	0.33	0.305	0.278	---	0.03
80	6.67	0.33	0.305	0.277	---	0.03
81	6.75	0.33	0.305	0.276	---	0.03
82	6.83	0.33	0.305	0.275	---	0.03
83	6.92	0.33	0.305	0.273	---	0.03
84	7.00	0.33	0.305	0.272	---	0.03
85	7.08	0.33	0.305	0.271	---	0.03
86	7.17	0.33	0.305	0.270	---	0.04
87	7.25	0.33	0.305	0.268	---	0.04
88	7.33	0.37	0.336	0.267	---	0.07
89	7.42	0.37	0.336	0.266	---	0.07
90	7.50	0.37	0.336	0.265	---	0.07
91	7.58	0.40	0.366	0.263	---	0.10
92	7.67	0.40	0.366	0.262	---	0.10
93	7.75	0.40	0.366	0.261	---	0.10
94	7.83	0.43	0.397	0.260	---	0.14
95	7.92	0.43	0.397	0.259	---	0.14
96	8.00	0.43	0.397	0.257	---	0.14
97	8.08	0.50	0.458	0.256	---	0.20
98	8.17	0.50	0.458	0.255	---	0.20
99	8.25	0.50	0.458	0.254	---	0.20
100	8.33	0.50	0.458	0.253	---	0.20
101	8.42	0.50	0.458	0.252	---	0.21
102	8.50	0.50	0.458	0.250	---	0.21
103	8.58	0.53	0.488	0.249	---	0.24
104	8.67	0.53	0.488	0.248	---	0.24
105	8.75	0.53	0.488	0.247	---	0.24
106	8.83	0.57	0.519	0.246	---	0.27
107	8.92	0.57	0.519	0.245	---	0.27
108	9.00	0.57	0.519	0.243	---	0.28
109	9.08	0.63	0.580	0.242	---	0.34
110	9.17	0.63	0.580	0.241	---	0.34
111	9.25	0.63	0.580	0.240	---	0.34
112	9.33	0.67	0.610	0.239	---	0.37
113	9.42	0.67	0.610	0.238	---	0.37
114	9.50	0.67	0.610	0.236	---	0.37

115	9.58	0.70	0.641	0.235	---	0.41
116	9.67	0.70	0.641	0.234	---	0.41
117	9.75	0.70	0.641	0.233	---	0.41
118	9.83	0.73	0.671	0.232	---	0.44
119	9.92	0.73	0.671	0.231	---	0.44
120	10.00	0.73	0.671	0.230	---	0.44
121	10.08	0.50	0.458	0.229	---	0.23
122	10.17	0.50	0.458	0.228	---	0.23
123	10.25	0.50	0.458	0.226	---	0.23
124	10.33	0.50	0.458	0.225	---	0.23
125	10.42	0.50	0.458	0.224	---	0.23
126	10.50	0.50	0.458	0.223	---	0.23
127	10.58	0.67	0.610	0.222	---	0.39
128	10.67	0.67	0.610	0.221	---	0.39
129	10.75	0.67	0.610	0.220	---	0.39
130	10.83	0.67	0.610	0.219	---	0.39
131	10.92	0.67	0.610	0.218	---	0.39
132	11.00	0.67	0.610	0.217	---	0.39
133	11.08	0.63	0.580	0.216	---	0.36
134	11.17	0.63	0.580	0.215	---	0.37
135	11.25	0.63	0.580	0.213	---	0.37
136	11.33	0.63	0.580	0.212	---	0.37
137	11.42	0.63	0.580	0.211	---	0.37
138	11.50	0.63	0.580	0.210	---	0.37
139	11.58	0.57	0.519	0.209	---	0.31
140	11.67	0.57	0.519	0.208	---	0.31
141	11.75	0.57	0.519	0.207	---	0.31
142	11.83	0.60	0.549	0.206	---	0.34
143	11.92	0.60	0.549	0.205	---	0.34
144	12.00	0.60	0.549	0.204	---	0.34
145	12.08	0.83	0.763	0.203	---	0.56
146	12.17	0.83	0.763	0.202	---	0.56
147	12.25	0.83	0.763	0.201	---	0.56
148	12.33	0.87	0.793	0.200	---	0.59
149	12.42	0.87	0.793	0.199	---	0.59
150	12.50	0.87	0.793	0.198	---	0.60
151	12.58	0.93	0.854	0.197	---	0.66
152	12.67	0.93	0.854	0.196	---	0.66
153	12.75	0.93	0.854	0.195	---	0.66
154	12.83	0.97	0.885	0.194	---	0.69
155	12.92	0.97	0.885	0.193	---	0.69
156	13.00	0.97	0.885	0.192	---	0.69
157	13.08	1.13	1.037	0.191	---	0.85
158	13.17	1.13	1.037	0.190	---	0.85
159	13.25	1.13	1.037	0.189	---	0.85
160	13.33	1.13	1.037	0.188	---	0.85
161	13.42	1.13	1.037	0.187	---	0.85
162	13.50	1.13	1.037	0.186	---	0.85
163	13.58	0.77	0.702	0.185	---	0.52
164	13.67	0.77	0.702	0.184	---	0.52
165	13.75	0.77	0.702	0.184	---	0.52
166	13.83	0.77	0.702	0.183	---	0.52
167	13.92	0.77	0.702	0.182	---	0.52
168	14.00	0.77	0.702	0.181	---	0.52
169	14.08	0.90	0.824	0.180	---	0.64
170	14.17	0.90	0.824	0.179	---	0.64
171	14.25	0.90	0.824	0.178	---	0.65
172	14.33	0.87	0.793	0.177	---	0.62
173	14.42	0.87	0.793	0.176	---	0.62
174	14.50	0.87	0.793	0.175	---	0.62
175	14.58	0.87	0.793	0.174	---	0.62
176	14.67	0.87	0.793	0.173	---	0.62
177	14.75	0.87	0.793	0.173	---	0.62
178	14.83	0.83	0.763	0.172	---	0.59
179	14.92	0.83	0.763	0.171	---	0.59
180	15.00	0.83	0.763	0.170	---	0.59
181	15.08	0.80	0.732	0.169	---	0.56
182	15.17	0.80	0.732	0.168	---	0.56
183	15.25	0.80	0.732	0.167	---	0.56
184	15.33	0.77	0.702	0.166	---	0.54
185	15.42	0.77	0.702	0.166	---	0.54
186	15.50	0.77	0.702	0.165	---	0.54
187	15.58	0.63	0.580	0.164	---	0.42
188	15.67	0.63	0.580	0.163	---	0.42
189	15.75	0.63	0.580	0.162	---	0.42
190	15.83	0.63	0.580	0.161	---	0.42
191	15.92	0.63	0.580	0.161	---	0.42
192	16.00	0.63	0.580	0.160	---	0.42
193	16.08	0.13	0.122	0.159	0.110	0.01

194	16.17	0.13	0.122	0.158	0.110	0.01
195	16.25	0.13	0.122	0.157	0.110	0.01
196	16.33	0.13	0.122	0.157	0.110	0.01
197	16.42	0.13	0.122	0.156	0.110	0.01
198	16.50	0.13	0.122	0.155	0.110	0.01
199	16.58	0.10	0.092	0.154	0.082	0.01
200	16.67	0.10	0.092	0.153	0.082	0.01
201	16.75	0.10	0.092	0.153	0.082	0.01
202	16.83	0.10	0.092	0.152	0.082	0.01
203	16.92	0.10	0.092	0.151	0.082	0.01
204	17.00	0.10	0.092	0.150	0.082	0.01
205	17.08	0.17	0.153	0.150	---	0.00
206	17.17	0.17	0.153	0.149	---	0.00
207	17.25	0.17	0.153	0.148	---	0.00
208	17.33	0.17	0.153	0.147	---	0.01
209	17.42	0.17	0.153	0.147	---	0.01
210	17.50	0.17	0.153	0.146	---	0.01
211	17.58	0.17	0.153	0.145	---	0.01
212	17.67	0.17	0.153	0.144	---	0.01
213	17.75	0.17	0.153	0.144	---	0.01
214	17.83	0.13	0.122	0.143	0.110	0.01
215	17.92	0.13	0.122	0.142	0.110	0.01
216	18.00	0.13	0.122	0.142	0.110	0.01
217	18.08	0.13	0.122	0.141	0.110	0.01
218	18.17	0.13	0.122	0.140	0.110	0.01
219	18.25	0.13	0.122	0.139	0.110	0.01
220	18.33	0.13	0.122	0.139	0.110	0.01
221	18.42	0.13	0.122	0.138	0.110	0.01
222	18.50	0.13	0.122	0.137	0.110	0.01
223	18.58	0.10	0.092	0.137	0.082	0.01
224	18.67	0.10	0.092	0.136	0.082	0.01
225	18.75	0.10	0.092	0.135	0.082	0.01
226	18.83	0.07	0.061	0.135	0.055	0.01
227	18.92	0.07	0.061	0.134	0.055	0.01
228	19.00	0.07	0.061	0.134	0.055	0.01
229	19.08	0.10	0.092	0.133	0.082	0.01
230	19.17	0.10	0.092	0.132	0.082	0.01
231	19.25	0.10	0.092	0.132	0.082	0.01
232	19.33	0.13	0.122	0.131	0.110	0.01
233	19.42	0.13	0.122	0.130	0.110	0.01
234	19.50	0.13	0.122	0.130	0.110	0.01
235	19.58	0.10	0.092	0.129	0.082	0.01
236	19.67	0.10	0.092	0.129	0.082	0.01
237	19.75	0.10	0.092	0.128	0.082	0.01
238	19.83	0.07	0.061	0.127	0.055	0.01
239	19.92	0.07	0.061	0.127	0.055	0.01
240	20.00	0.07	0.061	0.126	0.055	0.01
241	20.08	0.10	0.092	0.126	0.082	0.01
242	20.17	0.10	0.092	0.125	0.082	0.01
243	20.25	0.10	0.092	0.125	0.082	0.01
244	20.33	0.10	0.092	0.124	0.082	0.01
245	20.42	0.10	0.092	0.124	0.082	0.01
246	20.50	0.10	0.092	0.123	0.082	0.01
247	20.58	0.10	0.092	0.123	0.082	0.01
248	20.67	0.10	0.092	0.122	0.082	0.01
249	20.75	0.10	0.092	0.122	0.082	0.01
250	20.83	0.07	0.061	0.121	0.055	0.01
251	20.92	0.07	0.061	0.121	0.055	0.01
252	21.00	0.07	0.061	0.120	0.055	0.01
253	21.08	0.10	0.092	0.120	0.082	0.01
254	21.17	0.10	0.092	0.119	0.082	0.01
255	21.25	0.10	0.092	0.119	0.082	0.01
256	21.33	0.07	0.061	0.118	0.055	0.01
257	21.42	0.07	0.061	0.118	0.055	0.01
258	21.50	0.07	0.061	0.117	0.055	0.01
259	21.58	0.10	0.092	0.117	0.082	0.01
260	21.67	0.10	0.092	0.116	0.082	0.01
261	21.75	0.10	0.092	0.116	0.082	0.01
262	21.83	0.07	0.061	0.116	0.055	0.01
263	21.92	0.07	0.061	0.115	0.055	0.01
264	22.00	0.07	0.061	0.115	0.055	0.01
265	22.08	0.10	0.092	0.114	0.082	0.01
266	22.17	0.10	0.092	0.114	0.082	0.01
267	22.25	0.10	0.092	0.114	0.082	0.01
268	22.33	0.07	0.061	0.113	0.055	0.01
269	22.42	0.07	0.061	0.113	0.055	0.01
270	22.50	0.07	0.061	0.113	0.055	0.01
271	22.58	0.07	0.061	0.112	0.055	0.01
272	22.67	0.07	0.061	0.112	0.055	0.01

273	22.75	0.07	0.061	0.112	0.055	0.01
274	22.83	0.07	0.061	0.111	0.055	0.01
275	22.92	0.07	0.061	0.111	0.055	0.01
276	23.00	0.07	0.061	0.111	0.055	0.01
277	23.08	0.07	0.061	0.111	0.055	0.01
278	23.17	0.07	0.061	0.110	0.055	0.01
279	23.25	0.07	0.061	0.110	0.055	0.01
280	23.33	0.07	0.061	0.110	0.055	0.01
281	23.42	0.07	0.061	0.110	0.055	0.01
282	23.50	0.07	0.061	0.110	0.055	0.01
283	23.58	0.07	0.061	0.109	0.055	0.01
284	23.67	0.07	0.061	0.109	0.055	0.01
285	23.75	0.07	0.061	0.109	0.055	0.01
286	23.83	0.07	0.061	0.109	0.055	0.01
287	23.92	0.07	0.061	0.109	0.055	0.01
288	24.00	0.07	0.061	0.109	0.055	0.01
Sum =		100.0			Sum =	47.6

Flood volume = Effective rainfall 3.96(In)
times area 27294.0(Ac.)/[(In)/(Ft.)] = 9015.1(Ac.Ft)
Total soil loss = 3.66(In)
Total soil loss = 8329.838(Ac.Ft)
Total rainfall = 7.63(In)
Flood volume = 392698379.8 Cubic Feet
Total soil loss = 362847739.5 Cubic Feet

Peak flow rate of this hydrograph = 13733.506(CFS)

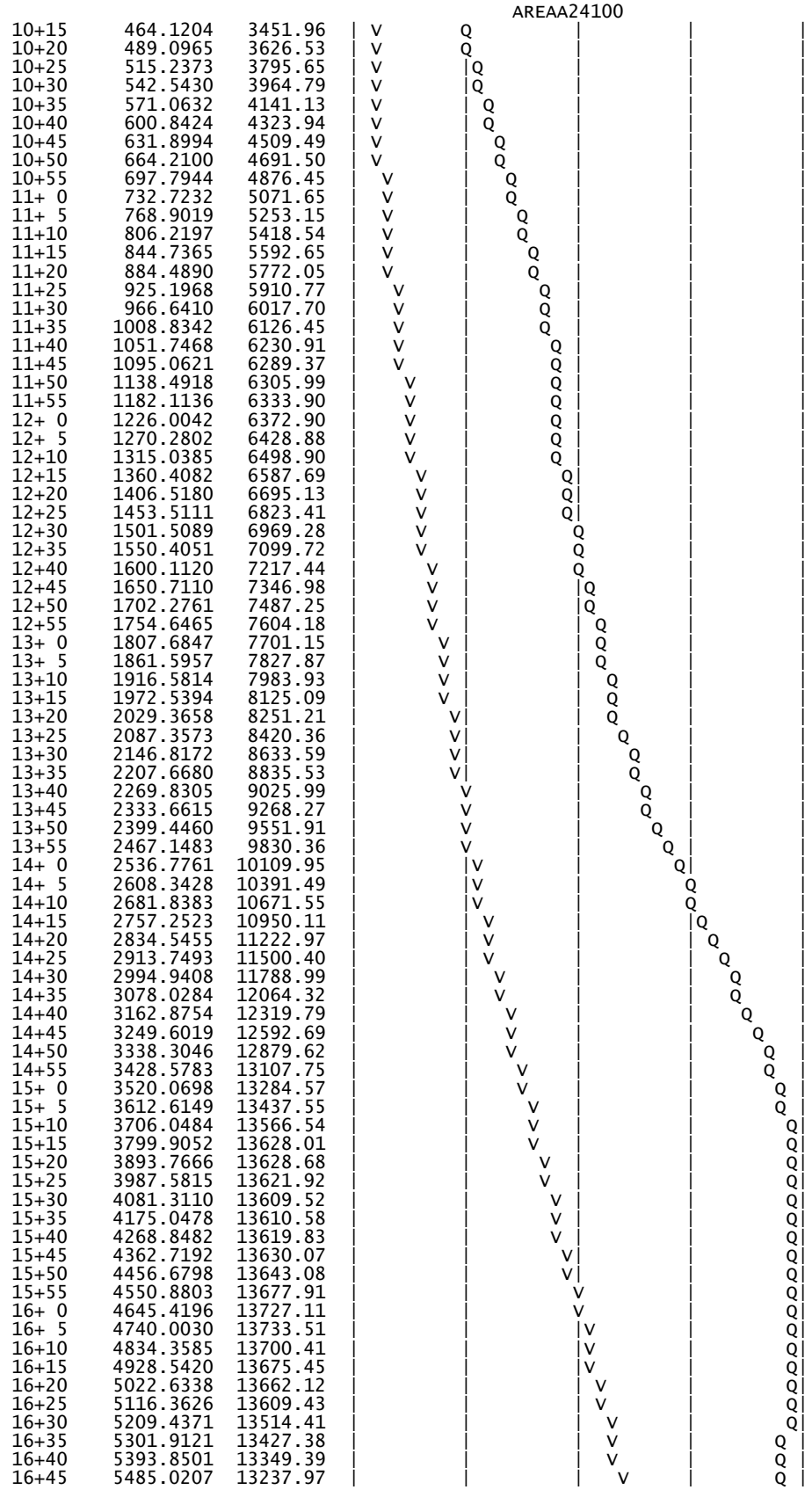
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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

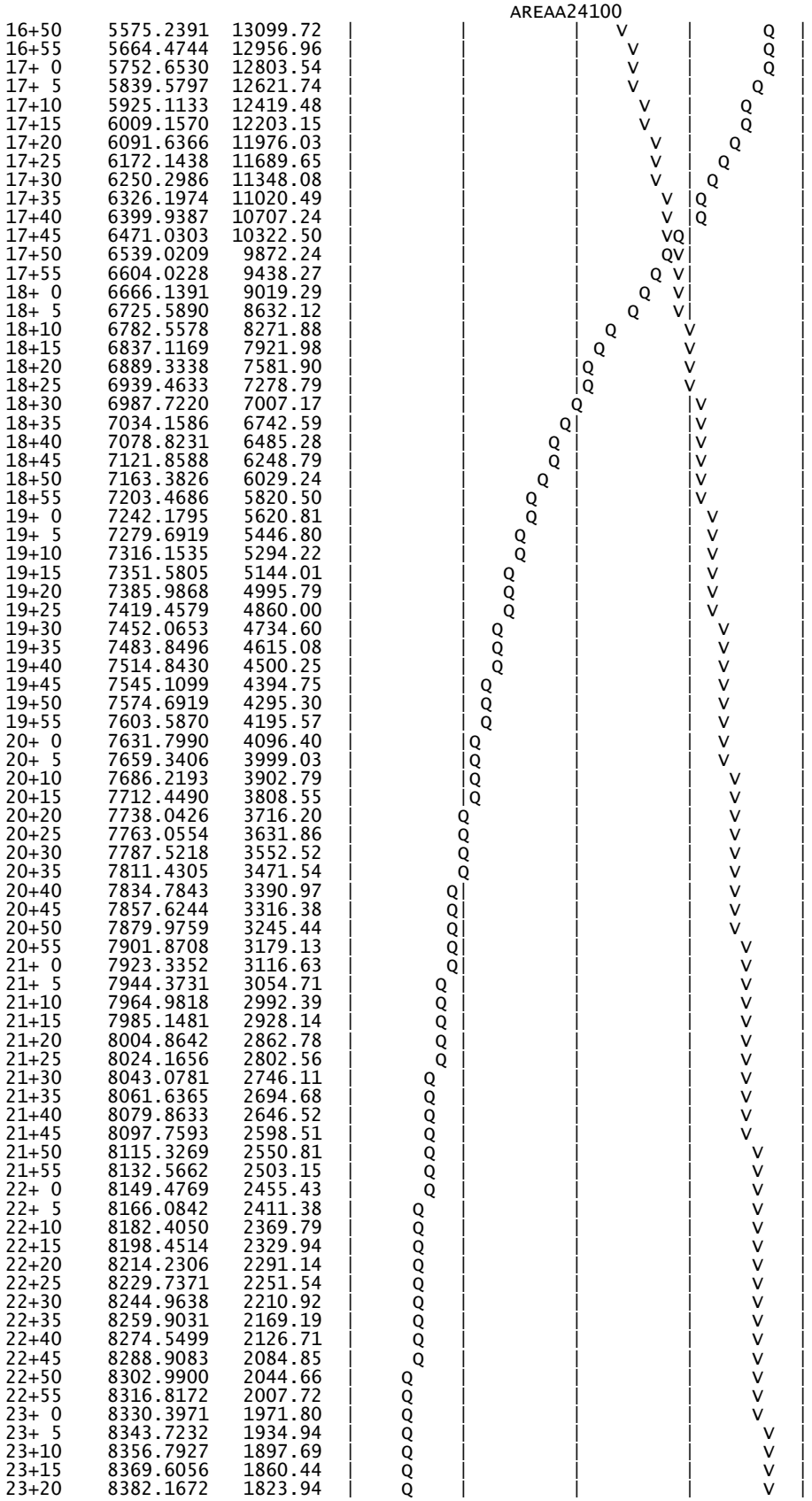
Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	3450.0	6900.0	10350.0	13800.0
0+ 5	0.0016	0.23	Q				
0+10	0.0064	0.69	Q				
0+15	0.0143	1.16	Q				
0+20	0.0263	1.73	Q				
0+25	0.0445	2.64	Q				
0+30	0.0703	3.75	Q				
0+35	0.1038	4.87	Q				
0+40	0.1457	6.09	Q				
0+45	0.1983	7.63	Q				
0+50	0.2636	9.49	Q				
0+55	0.3425	11.46	Q				
1+ 0	0.4358	13.54	Q				
1+ 5	0.5450	15.85	Q				
1+10	0.6716	18.38	Q				
1+15	0.8162	21.00	Q				
1+20	0.9798	23.75	Q				
1+25	1.1680	27.33	Q				
1+30	1.3863	31.69	Q				
1+35	1.6352	36.14	Q				
1+40	1.9177	41.02	Q				
1+45	2.2429	47.23	Q				
1+50	2.6184	54.52	Q				
1+55	3.0457	62.05	Q				
2+ 0	3.5285	70.10	Q				
2+ 5	4.0660	78.04	Q				
2+10	4.6582	85.98	Q				
2+15	5.3084	94.41	Q				
2+20	6.0150	102.60	Q				
2+25	6.7696	109.56	Q				
2+30	7.5703	116.26	Q				
2+35	8.4218	123.64	Q				
2+40	9.3229	130.84	Q				
2+45	10.2657	136.90	Q				
2+50	11.2442	142.08	Q				
2+55	12.2585	147.27	Q				
3+ 0	13.3081	152.40	Q				
3+ 5	14.3909	157.22	Q				
3+10	15.5068	162.04	Q				
3+15	16.6576	167.09	Q				
3+20	17.8424	172.04	Q				
3+25	19.0609	176.93	Q				
3+30	20.3162	182.27	Q				
3+35	21.6114	188.06	Q				

3+40	22.9465	193.86	Q				
3+45	24.3212	199.61	Q				
3+50	25.7336	205.07	Q				
3+55	27.1847	210.70	Q				
4+ 0	28.6767	216.64	Q				
4+ 5	30.2101	222.65	Q				
4+10	31.7835	228.46	Q				
4+15	33.3990	234.56	Q				
4+20	35.0603	241.22	Q				
4+25	36.7679	247.95	Q				
4+30	38.5210	254.54	Q				
4+35	40.3171	260.80	Q				
4+40	42.1553	266.90	Q				
4+45	44.0358	273.06	Q				
4+50	45.9588	279.22	Q				
4+55	47.9224	285.11	Q				
5+ 0	49.9252	290.81	Q				
5+ 5	51.9664	296.37	Q				
5+10	54.0467	302.07	Q				
5+15	56.1676	307.95	Q				
5+20	58.3295	313.91	Q				
5+25	60.5322	319.83	Q				
5+30	62.7776	326.03	Q				
5+35	65.0686	332.66	Q				
5+40	67.4081	339.70	Q				
5+45	69.7981	347.02	VQ				
5+50	72.2360	353.99	VQ				
5+55	74.7210	360.83	VQ				
6+ 0	77.2577	368.33	VQ				
6+ 5	79.8488	376.22	VQ				
6+10	82.4932	383.96	VQ				
6+15	85.1914	391.78	VQ				
6+20	87.9426	399.48	VQ				
6+25	90.7415	406.40	VQ				
6+30	93.5860	413.02	VQ				
6+35	96.4785	420.00	VQ				
6+40	99.4206	427.19	VQ				
6+45	102.4069	433.61	VQ				
6+50	105.4287	438.77	VQ				
6+55	108.4862	443.94	VQ				
7+ 0	111.5848	449.92	VQ				
7+ 5	114.7323	457.01	VQ				
7+10	117.9304	464.37	VQ				
7+15	121.1811	472.00	VQ				
7+20	124.4938	481.00	VQ				
7+25	127.8823	492.02	VQ				
7+30	131.3529	503.92	VQ				
7+35	134.9118	516.76	VQ				
7+40	138.5719	531.44	VQ				
7+45	142.3464	548.05	VQ				
7+50	146.2492	566.68	VQ				
7+55	150.2933	587.21	VQ				
8+ 0	154.4927	609.75	VQ				
8+ 5	158.8742	636.19	VQ				
8+10	163.4649	666.57	VQ				
8+15	168.2810	699.30	V Q				
8+20	173.3404	734.62	V Q				
8+25	178.6709	773.99	V Q				
8+30	184.3004	817.40	V Q				
8+35	190.2576	864.99	V Q				
8+40	196.5916	919.69	V Q				
8+45	203.3484	981.09	V Q				
8+50	210.5636	1047.66	V Q				
8+55	218.2946	1122.53	V Q				
9+ 0	226.6155	1208.20	|V Q				
9+ 5	235.5950	1303.82	|V Q				
9+10	245.3032	1409.63	|V Q				
9+15	255.8210	1527.18	|V Q				
9+20	267.1836	1649.85	|V Q				
9+25	279.4598	1782.52	|V Q				
9+30	292.7639	1931.75	|V Q				
9+35	307.1391	2087.28	|V Q				
9+40	322.5754	2241.35	|V Q				
9+45	339.1517	2406.88	|V Q				
9+50	356.9499	2584.29	|V Q				
9+55	375.9879	2764.33	|V Q				
10+ 0	396.2786	2946.20	|V Q				
10+ 5	417.7489	3117.49	|V Q|				
10+10	440.3465	3281.17	|V Q|				



10+15	464.1204	3451.96	V Q
10+20	489.0965	3626.53	V Q
10+25	515.2373	3795.65	V |Q
10+30	542.5430	3964.79	V |Q
10+35	571.0632	4141.13	V | Q
10+40	600.8424	4323.94	V | Q
10+45	631.8994	4509.49	V | Q
10+50	664.2100	4691.50	V | Q
10+55	697.7944	4876.45	V | Q
11+ 0	732.7232	5071.65	V | Q
11+ 5	768.9019	5253.15	V | Q
11+10	806.2197	5418.54	V | Q
11+15	844.7365	5592.65	V | Q
11+20	884.4890	5772.05	V | Q
11+25	925.1968	5910.77	V | Q
11+30	966.6410	6017.70	V | Q
11+35	1008.8342	6126.45	V | Q
11+40	1051.7468	6230.91	V | Q
11+45	1095.0621	6289.37	V | Q
11+50	1138.4918	6305.99	V | Q
11+55	1182.1136	6333.90	V | Q
12+ 0	1226.0042	6372.90	V | Q
12+ 5	1270.2802	6428.88	V | Q
12+10	1315.0385	6498.90	V | Q
12+15	1360.4082	6587.69	V | Q
12+20	1406.5180	6695.13	V | Q
12+25	1453.5111	6823.41	V | Q
12+30	1501.5089	6969.28	V | Q
12+35	1550.4051	7099.72	V | Q
12+40	1600.1120	7217.44	V | Q
12+45	1650.7110	7346.98	V | Q
12+50	1702.2761	7487.25	V | Q
12+55	1754.6465	7604.18	V | Q
13+ 0	1807.6847	7701.15	V | Q
13+ 5	1861.5957	7827.87	V | Q
13+10	1916.5814	7983.93	V | Q
13+15	1972.5394	8125.09	V | Q
13+20	2029.3658	8251.21	V | Q
13+25	2087.3573	8420.36	V | Q
13+30	2146.8172	8633.59	V | Q
13+35	2207.6680	8835.53	V | Q
13+40	2269.8305	9025.99	V | Q
13+45	2333.6615	9268.27	V | Q
13+50	2399.4460	9551.91	V | Q
13+55	2467.1483	9830.36	V | Q
14+ 0	2536.7761	10109.95	V | Q
14+ 5	2608.3428	10391.49	V | Q
14+10	2681.8383	10671.55	V | Q
14+15	2757.2523	10950.11	V | Q
14+20	2834.5455	11222.97	V | Q
14+25	2913.7493	11500.40	V | Q
14+30	2994.9408	11788.99	V | Q
14+35	3078.0284	12064.32	V | Q
14+40	3162.8754	12319.79	V | Q
14+45	3249.6019	12592.69	V | Q
14+50	3338.3046	12879.62	V | Q
14+55	3428.5783	13107.75	V | Q
15+ 0	3520.0698	13284.57	V | Q
15+ 5	3612.6149	13437.55	V | Q
15+10	3706.0484	13566.54	V | Q
15+15	3799.9052	13628.01	V | Q
15+20	3893.7666	13628.68	V | Q
15+25	3987.5815	13621.92	V | Q
15+30	4081.3110	13609.52	V | Q
15+35	4175.0478	13610.58	V | Q
15+40	4268.8482	13619.83	V | Q
15+45	4362.7192	13630.07	V | Q
15+50	4456.6798	13643.08	V | Q
15+55	4550.8803	13677.91	V | Q
16+ 0	4645.4196	13727.11	V | Q
16+ 5	4740.0030	13733.51	V | Q
16+10	4834.3585	13700.41	V | Q
16+15	4928.5420	13675.45	V | Q
16+20	5022.6338	13662.12	V | Q
16+25	5116.3626	13609.43	V | Q
16+30	5209.4371	13514.41	V | Q
16+35	5301.9121	13427.38	V | Q
16+40	5393.8501	13349.39	V | Q
16+45	5485.0207	13237.97	V | Q



16+50	5575.2391	13099.72	
16+55	5664.4744	12956.96	
17+ 0	5752.6530	12803.54	
17+ 5	5839.5797	12621.74	
17+10	5925.1133	12419.48	
17+15	6009.1570	12203.15	
17+20	6091.6366	11976.03	
17+25	6172.1438	11689.65	
17+30	6250.2986	11348.08	
17+35	6326.1974	11020.49	
17+40	6399.9387	10707.24	
17+45	6471.0303	10322.50	
17+50	6539.0209	9872.24	
17+55	6604.0228	9438.27	
18+ 0	6666.1391	9019.29	
18+ 5	6725.5890	8632.12	
18+10	6782.5578	8271.88	
18+15	6837.1169	7921.98	
18+20	6889.3338	7581.90	
18+25	6939.4633	7278.79	
18+30	6987.7220	7007.17	
18+35	7034.1586	6742.59	
18+40	7078.8231	6485.28	
18+45	7121.8588	6248.79	
18+50	7163.3826	6029.24	
18+55	7203.4686	5820.50	
19+ 0	7242.1795	5620.81	
19+ 5	7279.6919	5446.80	
19+10	7316.1535	5294.22	
19+15	7351.5805	5144.01	
19+20	7385.9868	4995.79	
19+25	7419.4579	4860.00	
19+30	7452.0653	4734.60	
19+35	7483.8496	4615.08	
19+40	7514.8430	4500.25	
19+45	7545.1099	4394.75	
19+50	7574.6919	4295.30	
19+55	7603.5870	4195.57	
20+ 0	7631.7990	4096.40	
20+ 5	7659.3406	3999.03	
20+10	7686.2193	3902.79	
20+15	7712.4490	3808.55	
20+20	7738.0426	3716.20	
20+25	7763.0554	3631.86	
20+30	7787.5218	3552.52	
20+35	7811.4305	3471.54	
20+40	7834.7843	3390.97	
20+45	7857.6244	3316.38	
20+50	7879.9759	3245.44	
20+55	7901.8708	3179.13	
21+ 0	7923.3352	3116.63	
21+ 5	7944.3731	3054.71	
21+10	7964.9818	2992.39	
21+15	7985.1481	2928.14	
21+20	8004.8642	2862.78	
21+25	8024.1656	2802.56	
21+30	8043.0781	2746.11	
21+35	8061.6365	2694.68	
21+40	8079.8633	2646.52	
21+45	8097.7593	2598.51	
21+50	8115.3269	2550.81	
21+55	8132.5662	2503.15	
22+ 0	8149.4769	2455.43	
22+ 5	8166.0842	2411.38	
22+10	8182.4050	2369.79	
22+15	8198.4514	2329.94	
22+20	8214.2306	2291.14	
22+25	8229.7371	2251.54	
22+30	8244.9638	2210.92	
22+35	8259.9031	2169.19	
22+40	8274.5499	2126.71	
22+45	8288.9083	2084.85	
22+50	8302.9900	2044.66	
22+55	8316.8172	2007.72	
23+ 0	8330.3971	1971.80	
23+ 5	8343.7232	1934.94	
23+10	8356.7927	1897.69	
23+15	8369.6056	1860.44	
23+20	8382.1672	1823.94	

23+25	8394.5048	1791.42	Q			V
23+30	8406.6306	1760.67	Q			V
23+35	8418.5565	1731.65	Q			V
23+40	8430.2897	1703.66	Q			V
23+45	8441.8238	1674.75	Q			V
23+50	8453.1589	1645.85	Q			V
23+55	8464.2906	1616.33	Q			V
24+ 0	8475.2121	1585.80	Q			V
24+ 5	8485.9371	1557.28	Q			V
24+10	8496.4800	1530.83	Q			V
24+15	8506.8565	1506.66	Q			V
24+20	8517.0753	1483.77	Q			V
24+25	8527.1354	1460.73	Q			V
24+30	8537.0341	1437.29	Q			V
24+35	8546.7696	1413.60	Q			V
24+40	8556.3436	1390.13	Q			V
24+45	8565.7630	1367.71	Q			V
24+50	8575.0305	1345.64	Q			V
24+55	8584.1525	1324.51	Q			V
25+ 0	8593.1339	1304.11	Q			V
25+ 5	8601.9696	1282.93	Q			V
25+10	8610.6545	1261.04	Q			V
25+15	8619.1836	1238.43	Q			V
25+20	8627.5563	1215.72	Q			V
25+25	8635.7719	1192.91	Q			V
25+30	8643.8299	1170.01	Q			V
25+35	8651.7436	1149.08	Q			V
25+40	8659.5192	1129.02	Q			V
25+45	8667.1509	1108.12	Q			V
25+50	8674.6328	1086.37	Q			V
25+55	8681.9630	1064.35	Q			V
26+ 0	8689.1413	1042.29	Q			V
26+ 5	8696.1715	1020.78	Q			V
26+10	8703.0566	999.71	Q			V
26+15	8709.8024	979.49	Q			V
26+20	8716.4127	959.82	Q			V
26+25	8722.8864	939.99	Q			V
26+30	8729.2228	920.04	Q			V
26+35	8735.4226	900.21	Q			V
26+40	8741.4867	880.51	Q			V
26+45	8747.4246	862.18	Q			V
26+50	8753.2444	845.04	Q			V
26+55	8758.9572	829.50	Q			V
27+ 0	8764.5668	814.51	Q			V
27+ 5	8770.0755	799.88	Q			V
27+10	8775.4860	785.60	Q			V
27+15	8780.7957	770.97	Q			V
27+20	8786.0045	756.31	Q			V
27+25	8791.1096	741.26	Q			V
27+30	8796.1084	725.83	Q			V
27+35	8801.0034	710.76	Q			V
27+40	8805.7971	696.04	Q			V
27+45	8810.4846	680.62	Q			V
27+50	8815.0645	665.00	Q			V
27+55	8819.5370	649.41	Q			V
28+ 0	8823.9018	633.76	Q			V
28+ 5	8828.1725	620.11	Q			V
28+10	8832.3569	607.58	Q			V
28+15	8836.4654	596.55	Q			V
28+20	8840.5024	586.17	Q			V
28+25	8844.4685	575.88	Q			V
28+30	8848.3638	565.60	Q			V
28+35	8852.1884	555.33	Q			V
28+40	8855.9427	545.13	Q			V
28+45	8859.6286	535.20	Q			V
28+50	8863.2466	525.33	Q			V
28+55	8866.7987	515.77	Q			V
29+ 0	8870.2878	506.61	Q			V
29+ 5	8873.7155	497.70	Q			V
29+10	8877.0822	488.85	Q			V
29+15	8880.3843	479.47	Q			V
29+20	8883.6209	469.95	Q			V
29+25	8886.8044	462.25	Q			V
29+30	8889.9421	455.59	Q			V
29+35	8893.0311	448.52	Q			V
29+40	8896.0695	441.17	Q			V
29+45	8899.0588	434.05	Q			V
29+50	8901.9991	426.93	Q			V
29+55	8904.8888	419.59	Q			V

30+ 0	8907.7289	412.37	|Q	|	|	V|
30+ 5	8910.5205	405.34	|Q	|	|	V|
30+10	8913.2637	398.31	|Q	|	|	V|
30+15	8915.9638	392.06	|Q	|	|	V|
30+20	8918.6228	386.08	|Q	|	|	V|
30+25	8921.2396	379.97	|Q	|	|	V|
30+30	8923.8138	373.76	|Q	|	|	V|
30+35	8926.3447	367.49	|Q	|	|	V|
30+40	8928.8317	361.12	|Q	|	|	V|
30+45	8931.2829	355.92	|Q	|	|	V|
30+50	8933.7039	351.53	|Q	|	|	V|
30+55	8936.1004	347.97	|Q	|	|	V|
31+ 0	8938.4716	344.29	Q	|	|	V|
31+ 5	8940.8167	340.51	Q	|	|	V|
31+10	8943.1355	336.68	Q	|	|	V|
31+15	8945.4263	332.63	Q	|	|	V|
31+20	8947.6872	328.27	Q	|	|	V|
31+25	8949.9137	323.29	Q	|	|	V|
31+30	8952.1053	318.23	Q	|	|	V|
31+35	8954.2609	312.99	Q	|	|	V|
31+40	8956.3798	307.67	Q	|	|	V|
31+45	8958.4584	301.82	Q	|	|	V|
31+50	8960.4959	295.84	Q	|	|	V|
31+55	8962.4931	289.99	Q	|	|	V|
32+ 0	8964.4499	284.13	Q	|	|	V|
32+ 5	8966.3632	277.82	Q	|	|	V|
32+10	8968.2326	271.43	Q	|	|	V|
32+15	8970.0658	266.19	Q	|	|	V|
32+20	8971.8661	261.41	Q	|	|	V|
32+25	8973.6351	256.86	Q	|	|	V|
32+30	8975.3727	252.29	Q	|	|	V|
32+35	8977.0784	247.67	Q	|	|	V|
32+40	8978.7510	242.87	Q	|	|	V|
32+45	8980.3875	237.62	Q	|	|	V|
32+50	8981.9850	231.95	Q	|	|	V|
32+55	8983.5375	225.43	Q	|	|	V|
33+ 0	8985.0460	219.03	Q	|	|	V|
33+ 5	8986.5102	212.60	Q	|	|	V|
33+10	8987.9292	206.04	Q	|	|	V|
33+15	8989.3031	199.50	Q	|	|	V|
33+20	8990.6316	192.89	Q	|	|	V|
33+25	8991.9129	186.04	Q	|	|	V|
33+30	8993.1479	179.32	Q	|	|	V|
33+35	8994.3365	172.58	Q	|	|	V|
33+40	8995.4777	165.71	Q	|	|	V|
33+45	8996.5722	158.92	Q	|	|	V|
33+50	8997.6189	151.98	Q	|	|	V|
33+55	8998.6135	144.41	Q	|	|	V|
34+ 0	8999.5565	136.93	Q	|	|	V|
34+ 5	9000.4482	129.47	Q	|	|	V|
34+10	9001.2887	122.04	Q	|	|	V|
34+15	9002.0811	115.06	Q	|	|	V|
34+20	9002.8295	108.66	Q	|	|	V|
34+25	9003.5431	103.62	Q	|	|	V|
34+30	9004.2221	98.58	Q	|	|	V|
34+35	9004.8663	93.54	Q	|	|	V|
34+40	9005.4764	88.59	Q	|	|	V|
34+45	9006.0625	85.10	Q	|	|	V|
34+50	9006.6268	81.94	Q	|	|	V|
34+55	9007.1658	78.26	Q	|	|	V|
35+ 0	9007.6794	74.57	Q	|	|	V|
35+ 5	9008.1678	70.92	Q	|	|	V|
35+10	9008.6321	67.41	Q	|	|	V|
35+15	9009.0722	63.90	Q	|	|	V|
35+20	9009.4882	60.40	Q	|	|	V|
35+25	9009.8800	56.89	Q	|	|	V|
35+30	9010.2476	53.37	Q	|	|	V|
35+35	9010.5912	49.90	Q	|	|	V|
35+40	9010.9118	46.55	Q	|	|	V|
35+45	9011.2095	43.22	Q	|	|	V|
35+50	9011.4844	39.91	Q	|	|	V|
35+55	9011.7373	36.73	Q	|	|	V|
36+ 0	9011.9683	33.54	Q	|	|	V|
36+ 5	9012.1779	30.43	Q	|	|	V|
36+10	9012.3669	27.45	Q	|	|	V|
36+15	9012.5352	24.44	Q	|	|	V|
36+20	9012.6838	21.58	Q	|	|	V|
36+25	9012.8161	19.21	Q	|	|	V|
36+30	9012.9321	16.83	Q	|	|	V|

36+35	9013.0316	14.46	Q	|	|	|	V|
36+40	9013.1148	12.08	Q	|	|	|	V|
36+45	9013.1814	9.68	Q	|	|	|	V|
36+50	9013.2350	7.79	Q	|	|	|	V|
36+55	9013.2872	7.57	Q	|	|	|	V|
37+ 0	9013.3378	7.36	Q	|	|	|	V|
37+ 5	9013.3872	7.16	Q	|	|	|	V|
37+10	9013.4352	6.97	Q	|	|	|	V|
37+15	9013.4820	6.79	Q	|	|	|	V|
37+20	9013.5275	6.61	Q	|	|	|	V|
37+25	9013.5720	6.47	Q	|	|	|	V|
37+30	9013.6158	6.36	Q	|	|	|	V|
37+35	9013.6589	6.25	Q	|	|	|	V|
37+40	9013.7012	6.14	Q	|	|	|	V|
37+45	9013.7427	6.03	Q	|	|	|	V|
37+50	9013.7834	5.91	Q	|	|	|	V|
37+55	9013.8234	5.81	Q	|	|	|	V|
38+ 0	9013.8627	5.71	Q	|	|	|	V|
38+ 5	9013.9012	5.59	Q	|	|	|	V|
38+10	9013.9389	5.48	Q	|	|	|	V|
38+15	9013.9759	5.37	Q	|	|	|	V|
38+20	9014.0121	5.26	Q	|	|	|	V|
38+25	9014.0475	5.14	Q	|	|	|	V|
38+30	9014.0821	5.03	Q	|	|	|	V|
38+35	9014.1160	4.91	Q	|	|	|	V|
38+40	9014.1490	4.79	Q	|	|	|	V|
38+45	9014.1812	4.68	Q	|	|	|	V|
38+50	9014.2127	4.58	Q	|	|	|	V|
38+55	9014.2435	4.48	Q	|	|	|	V|
39+ 0	9014.2737	4.38	Q	|	|	|	V|
39+ 5	9014.3031	4.28	Q	|	|	|	V|
39+10	9014.3319	4.18	Q	|	|	|	V|
39+15	9014.3600	4.08	Q	|	|	|	V|
39+20	9014.3874	3.98	Q	|	|	|	V|
39+25	9014.4142	3.90	Q	|	|	|	V|
39+30	9014.4405	3.82	Q	|	|	|	V|
39+35	9014.4664	3.76	Q	|	|	|	V|
39+40	9014.4919	3.70	Q	|	|	|	V|
39+45	9014.5170	3.64	Q	|	|	|	V|
39+50	9014.5416	3.57	Q	|	|	|	V|
39+55	9014.5656	3.49	Q	|	|	|	V|
40+ 0	9014.5891	3.41	Q	|	|	|	V|
40+ 5	9014.6121	3.33	Q	|	|	|	V|
40+10	9014.6343	3.24	Q	|	|	|	V|
40+15	9014.6559	3.13	Q	|	|	|	V|
40+20	9014.6767	3.02	Q	|	|	|	V|
40+25	9014.6969	2.93	Q	|	|	|	V|
40+30	9014.7164	2.84	Q	|	|	|	V|
40+35	9014.7355	2.77	Q	|	|	|	V|
40+40	9014.7541	2.71	Q	|	|	|	V|
40+45	9014.7723	2.63	Q	|	|	|	V|
40+50	9014.7898	2.55	Q	|	|	|	V|
40+55	9014.8067	2.45	Q	|	|	|	V|
41+ 0	9014.8231	2.37	Q	|	|	|	V|
41+ 5	9014.8388	2.29	Q	|	|	|	V|
41+10	9014.8541	2.21	Q	|	|	|	V|
41+15	9014.8688	2.13	Q	|	|	|	V|
41+20	9014.8829	2.05	Q	|	|	|	V|
41+25	9014.8965	1.97	Q	|	|	|	V|
41+30	9014.9096	1.89	Q	|	|	|	V|
41+35	9014.9221	1.82	Q	|	|	|	V|
41+40	9014.9342	1.76	Q	|	|	|	V|
41+45	9014.9458	1.69	Q	|	|	|	V|
41+50	9014.9570	1.63	Q	|	|	|	V|
41+55	9014.9677	1.55	Q	|	|	|	V|
42+ 0	9014.9778	1.47	Q	|	|	|	V|
42+ 5	9014.9874	1.39	Q	|	|	|	V|
42+10	9014.9965	1.33	Q	|	|	|	V|
42+15	9015.0053	1.27	Q	|	|	|	V|
42+20	9015.0135	1.20	Q	|	|	|	V|
42+25	9015.0212	1.12	Q	|	|	|	V|
42+30	9015.0284	1.04	Q	|	|	|	V|
42+35	9015.0350	0.96	Q	|	|	|	V|
42+40	9015.0412	0.90	Q	|	|	|	V|
42+45	9015.0472	0.86	Q	|	|	|	V|
42+50	9015.0529	0.83	Q	|	|	|	V|
42+55	9015.0582	0.78	Q	|	|	|	V|
43+ 0	9015.0632	0.73	Q	|	|	|	V|
43+ 5	9015.0679	0.68	Q	|	|	|	V|

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43+10	9015.0724	0.65	Q	|	|	V|
43+15	9015.0766	0.62	Q	|	|	V|
43+20	9015.0806	0.58	Q	|	|	V|
43+25	9015.0844	0.55	Q	|	|	V|
43+30	9015.0880	0.52	Q	|	|	V|
43+35	9015.0913	0.48	Q	|	|	V|
43+40	9015.0944	0.45	Q	|	|	V|
43+45	9015.0973	0.42	Q	|	|	V|
43+50	9015.1000	0.39	Q	|	|	V|
43+55	9015.1024	0.35	Q	|	|	V|
44+ 0	9015.1046	0.32	Q	|	|	V|
44+ 5	9015.1066	0.29	Q	|	|	V|
44+10	9015.1084	0.25	Q	|	|	V|
44+15	9015.1099	0.22	Q	|	|	V|
44+20	9015.1112	0.19	Q	|	|	V|
44+25	9015.1123	0.16	Q	|	|	V|
44+30	9015.1131	0.12	Q	|	|	V|
44+35	9015.1137	0.09	Q	|	|	V|
44+40	9015.1141	0.06	Q	|	|	V|
44+45	9015.1143	0.02	Q	|	|	V|

U n i t H y d r o g r a p h A n a l y s i s

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Study date 04/20/17 File: AREAB1100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

TRI-8 Builders - S/N 615

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

MORONGO WASH & MISSION CREEK
EXISTING CONDITION
AREA "B"
100YR-1HR

Drainage Area = 71502.00(Ac.) = 111.722 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 71502.00(Ac.) = 111.722 Sq. Mi.
Length along longest watercourse = 142370.00(Ft.)
Length along longest watercourse measured to centroid = 51555.00(Ft.)
Length along longest watercourse = 26.964 Mi.
Length along longest watercourse measured to centroid = 9.764 Mi.
Difference in elevation = 7936.00(Ft.)
Slope along watercourse = 294.3182 Ft./Mi.
Average Manning's 'N' = 0.039
Lag time = 2.642 Hr.
Lag time = 158.53 Min.
25% of lag time = 39.63 Min.
40% of lag time = 63.41 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1570.00	0.60	942.00
27321.00	0.65	17758.65
42611.00	0.70	29827.70

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
9637.00	1.40	13491.80
24939.00	1.50	37408.50
36926.00	1.60	59081.60

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.679(In)
Area Averaged 100-Year Rainfall = 1.538(In)

Point rain (area averaged) = 1.538(In)
Areal adjustment factor = 71.33 %
Adjusted average point rain = 1.097(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
71502.000	81.52	0.020

Total Area Entered = 71502.00(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
81.5	81.5	0.227	0.020	0.223	1.000	0.223

AREAB1100

Sum (F) = 0.223

Area averaged mean soil loss (F) (In/Hr) = 0.223
Minimum soil loss rate ((In/Hr)) = 0.111
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

Slope of intensity-duration curve for a 1 hour storm =0.5800

U n i t H y d r o g r a p h
DESERT S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	3.154	0.139	100.002
2	0.167	6.308	0.278	200.004
3	0.250	9.462	0.278	200.004
4	0.333	12.616	0.278	200.127
5	0.417	15.770	0.413	297.473
6	0.500	18.924	0.530	381.826
7	0.583	22.078	0.530	381.826
8	0.667	25.232	0.531	382.317
9	0.750	28.386	0.674	485.608
10	0.833	31.540	0.782	563.648
11	0.917	34.694	0.782	563.648
12	1.000	37.848	0.784	564.863
13	1.083	41.002	0.950	684.482
14	1.167	44.156	1.060	763.652
15	1.250	47.310	1.060	763.652
16	1.333	50.464	1.070	771.115
17	1.417	53.618	1.670	1203.202
18	1.500	56.772	2.019	1454.574
19	1.583	59.925	2.019	1454.574
20	1.667	63.079	2.039	1469.304
21	1.750	66.233	2.826	2036.562
22	1.833	69.387	3.230	2327.319
23	1.917	72.541	3.230	2327.319
24	2.000	75.695	3.217	2318.039
25	2.083	78.849	2.861	2061.504
26	2.167	82.003	2.700	1945.493
27	2.250	85.157	2.700	1945.493
28	2.333	88.311	2.677	1929.254
29	2.417	91.465	2.206	1590.001
30	2.500	94.619	2.019	1454.574
31	2.583	97.773	2.019	1454.574
32	2.667	100.927	2.002	1442.790
33	2.750	104.081	1.734	1249.819
34	2.833	107.235	1.640	1181.842
35	2.917	110.389	1.640	1181.842
36	3.000	113.543	1.617	1164.939
37	3.083	116.697	1.307	941.975
38	3.167	119.851	1.211	872.745
39	3.250	123.005	1.211	872.745
40	3.333	126.159	1.196	861.697
41	3.417	129.313	1.029	741.843
42	3.500	132.467	0.984	709.105
43	3.583	135.621	0.984	709.105
44	3.667	138.775	0.972	700.193
45	3.750	141.929	0.860	619.375
46	3.833	145.083	0.833	600.012
47	3.917	148.237	0.833	600.012
48	4.000	151.391	0.825	594.709
49	4.083	154.545	0.769	553.990
50	4.167	157.699	0.757	545.465
51	4.250	160.853	0.757	545.465
52	4.333	164.007	0.743	535.093
53	4.417	167.161	0.648	466.955
54	4.500	170.315	0.631	454.554
55	4.583	173.469	0.631	454.554
56	4.667	176.623	0.621	447.337
57	4.750	179.776	0.564	406.438
58	4.833	182.930	0.555	400.008
59	4.917	186.084	0.555	400.008
60	5.000	189.238	0.551	397.246
61	5.083	192.392	0.532	383.657
62	5.167	195.546	0.530	381.826

63	5.250	198.700	0.530	381.826
64	5.333	201.854	0.510	367.685
65	5.417	205.008	0.426	306.953
66	5.500	208.162	0.416	300.006
67	5.583	211.316	0.416	300.006
68	5.667	214.470	0.416	300.006
69	5.750	217.624	0.416	300.006
70	5.833	220.778	0.416	300.006
71	5.917	223.932	0.416	300.006
72	6.000	227.086	0.400	288.075
73	6.083	230.240	0.345	248.586
74	6.167	233.394	0.341	245.459
75	6.250	236.548	0.341	245.459
76	6.333	239.702	0.341	245.459
77	6.417	242.856	0.341	245.459
78	6.500	246.010	0.341	245.459
79	6.583	249.164	0.341	245.459
80	6.667	252.318	0.330	238.095
81	6.750	255.472	0.304	219.144
82	6.833	258.626	0.303	218.186
83	6.917	261.780	0.303	218.186
84	7.000	264.934	0.303	218.186
85	7.083	268.088	0.303	218.186
86	7.167	271.242	0.303	218.186
87	7.250	274.396	0.303	218.186
88	7.333	277.550	0.286	206.304
89	7.417	280.704	0.253	182.489
90	7.500	283.858	0.252	181.822
91	7.583	287.012	0.252	181.822
92	7.667	290.166	0.252	181.822
93	7.750	293.320	0.252	181.822
94	7.833	296.473	0.252	181.822
95	7.917	299.627	0.252	181.822
96	8.000	302.781	0.228	164.146
97	8.083	305.935	0.190	136.683
98	8.167	309.089	0.189	136.366
99	8.250	312.243	0.189	136.366
100	8.333	315.397	0.189	136.366
101	8.417	318.551	0.189	136.366
102	8.500	321.705	0.189	136.366
103	8.583	324.859	0.189	136.366
104	8.667	328.013	0.183	132.217
105	8.750	331.167	0.177	127.284
106	8.833	334.321	0.177	127.275
107	8.917	337.475	0.177	127.275
108	9.000	340.629	0.177	127.275
109	9.083	343.783	0.177	127.275
110	9.167	346.937	0.177	127.275
111	9.250	350.091	0.177	127.268
112	9.333	353.245	0.163	117.667
113	9.417	356.399	0.151	109.093
114	9.500	359.553	0.151	109.093
115	9.583	362.707	0.151	109.093
116	9.667	365.861	0.151	109.093
117	9.750	369.015	0.151	109.093
118	9.833	372.169	0.151	109.093
119	9.917	375.323	0.151	109.045
120	10.000	378.477	0.144	103.665
121	10.083	381.631	0.139	100.002
122	10.167	384.785	0.139	100.002
123	10.250	387.939	0.139	100.002
124	10.333	391.093	0.139	100.002
125	10.417	394.247	0.139	100.002
126	10.500	397.401	0.139	100.002
127	10.583	400.555	0.138	99.651
128	10.667	403.709	0.118	84.993
129	10.750	406.863	0.107	77.274
130	10.833	410.017	0.107	77.274
131	10.917	413.170	0.107	77.274
132	11.000	416.324	0.107	77.274
133	11.083	419.478	0.107	77.274
134	11.167	422.632	0.107	77.274
135	11.250	425.786	0.107	77.274
136	11.333	428.940	0.107	77.274
137	11.417	432.094	0.107	77.274
138	11.500	435.248	0.107	77.274
139	11.583	438.402	0.107	77.274
140	11.667	441.556	0.107	77.274
141	11.750	444.710	0.107	77.274

142	11.833	447.864	0.107	77.274
143	11.917	451.018	0.106	76.327
144	12.000	454.172	0.088	63.261
145	12.083	457.326	0.082	59.092
146	12.167	460.480	0.082	59.092
147	12.250	463.634	0.082	59.092
148	12.333	466.788	0.082	59.092
149	12.417	469.942	0.082	59.092
150	12.500	473.096	0.082	59.092
151	12.583	476.250	0.082	59.092
152	12.667	479.404	0.082	59.092
153	12.750	482.558	0.082	59.092
154	12.833	485.712	0.082	59.092
155	12.917	488.866	0.082	59.092
156	13.000	492.020	0.082	59.092
157	13.083	495.174	0.082	59.092
158	13.167	498.328	0.082	59.092
159	13.250	501.482	0.079	57.086
160	13.333	504.636	0.060	43.465
161	13.417	507.790	0.057	40.910
162	13.500	510.944	0.057	40.910
163	13.583	514.098	0.057	40.910
164	13.667	517.252	0.057	40.910
165	13.750	520.406	0.057	40.910
166	13.833	523.560	0.057	40.910
167	13.917	526.714	0.057	40.910
168	14.000	529.868	0.057	40.910
169	14.083	533.021	0.057	40.910
170	14.167	536.175	0.057	40.910
171	14.250	539.329	0.057	40.910
172	14.333	542.483	0.057	40.910
173	14.417	545.637	0.057	40.910
174	14.500	548.791	0.057	40.910
175	14.583	551.945	0.052	37.451
176	14.667	555.099	0.033	24.063
177	14.750	558.253	0.032	22.728
178	14.833	561.407	0.032	22.728
179	14.917	564.561	0.032	22.728
180	15.000	567.715	0.032	22.728
181	15.083	570.869	0.032	22.728
182	15.167	574.023	0.032	22.728
183	15.250	577.177	0.032	22.728
184	15.333	580.331	0.032	22.728
185	15.417	583.485	0.032	22.728
186	15.500	586.639	0.032	22.728
187	15.583	589.793	0.032	22.728
188	15.667	592.947	0.032	22.728
189	15.750	596.101	0.032	22.728
190	15.833	599.255	0.032	22.728
191	15.917	602.409	0.033	24.054
192	16.000	605.563	0.038	27.146
193	16.083	608.717	0.038	27.273
194	16.167	611.871	0.038	27.273
195	16.250	615.025	0.038	27.273
196	16.333	618.179	0.038	27.273
197	16.417	621.333	0.038	27.273
198	16.500	624.487	0.038	27.273
199	16.583	627.641	0.038	27.273
200	16.667	630.795	0.038	27.273
201	16.750	633.949	0.038	27.273
202	16.833	637.103	0.038	27.273
203	16.917	640.257	0.038	27.273
204	17.000	643.411	0.038	27.273
205	17.083	646.565	0.038	27.273
206	17.167	649.718	0.038	27.273
207	17.250	652.872	0.038	27.273
208	17.333	656.026	0.038	27.273
209	17.417	659.180	0.038	27.273
210	17.500	662.334	0.038	27.273
211	17.583	665.488	0.038	27.273
212	17.667	668.642	0.038	27.273
213	17.750	671.796	0.038	27.273
214	17.833	674.950	0.038	27.273
215	17.917	678.104	0.038	27.273
216	18.000	681.258	0.038	27.273
217	18.083	684.412	0.038	27.273
218	18.167	687.566	0.038	27.273
219	18.250	690.720	0.038	27.273
220	18.333	693.874	0.038	27.273

221	18.417	697.028	0.038	27.273
222	18.500	700.182	0.038	27.251
223	18.583	703.336	0.028	20.006
224	18.667	706.490	0.020	14.205
225	18.750	709.644	0.020	14.205
226	18.833	712.798	0.020	14.205
227	18.917	715.952	0.020	14.205
228	19.000	719.106	0.020	14.205
229	19.083	722.260	0.020	14.205
230	19.167	725.414	0.020	14.205
231	19.250	728.568	0.020	14.205
232	19.333	731.722	0.020	14.205
233	19.417	734.876	0.020	14.205
234	19.500	738.030	0.020	14.205
235	19.583	741.184	0.020	14.205
236	19.667	744.338	0.020	14.205
237	19.750	747.492	0.020	14.205
238	19.833	750.646	0.020	14.205
239	19.917	753.800	0.020	14.205
240	20.000	756.954	0.020	14.205
241	20.083	760.108	0.020	14.205
242	20.167	763.262	0.020	14.205
243	20.250	766.416	0.020	14.205
244	20.333	769.569	0.020	14.205
245	20.417	772.723	0.020	14.205
246	20.500	775.877	0.020	14.205
247	20.583	779.031	0.020	14.205
248	20.667	782.185	0.016	11.465
		Sum = 100.000	Sum=	72060.609

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	3.60	0.474	0.223	---	0.25
2	0.17	4.20	0.553	0.223	---	0.33
3	0.25	4.40	0.579	0.223	---	0.36
4	0.33	4.60	0.606	0.223	---	0.38
5	0.42	5.00	0.658	0.223	---	0.44
6	0.50	5.60	0.737	0.223	---	0.51
7	0.58	6.40	0.843	0.223	---	0.62
8	0.67	8.10	1.066	0.223	---	0.84
9	0.75	13.10	1.725	0.223	---	1.50
10	0.83	34.50	4.542	0.223	---	4.32
11	0.92	6.70	0.882	0.223	---	0.66
12	1.00	3.80	0.500	0.223	---	0.28
Sum =		100.0			Sum =	10.5

Flood volume = Effective rainfall 0.87(In)
times area 71502.0(Ac.)/[(In)/(Ft.)] = 5211.0(Ac.Ft)
Total soil loss = 0.22(In)
Total soil loss = 1326.314(Ac.Ft)
Total rainfall = 1.10(In)
Flood volume = 226990859.1 Cubic Feet
Total soil loss = 57774231.7 Cubic Feet

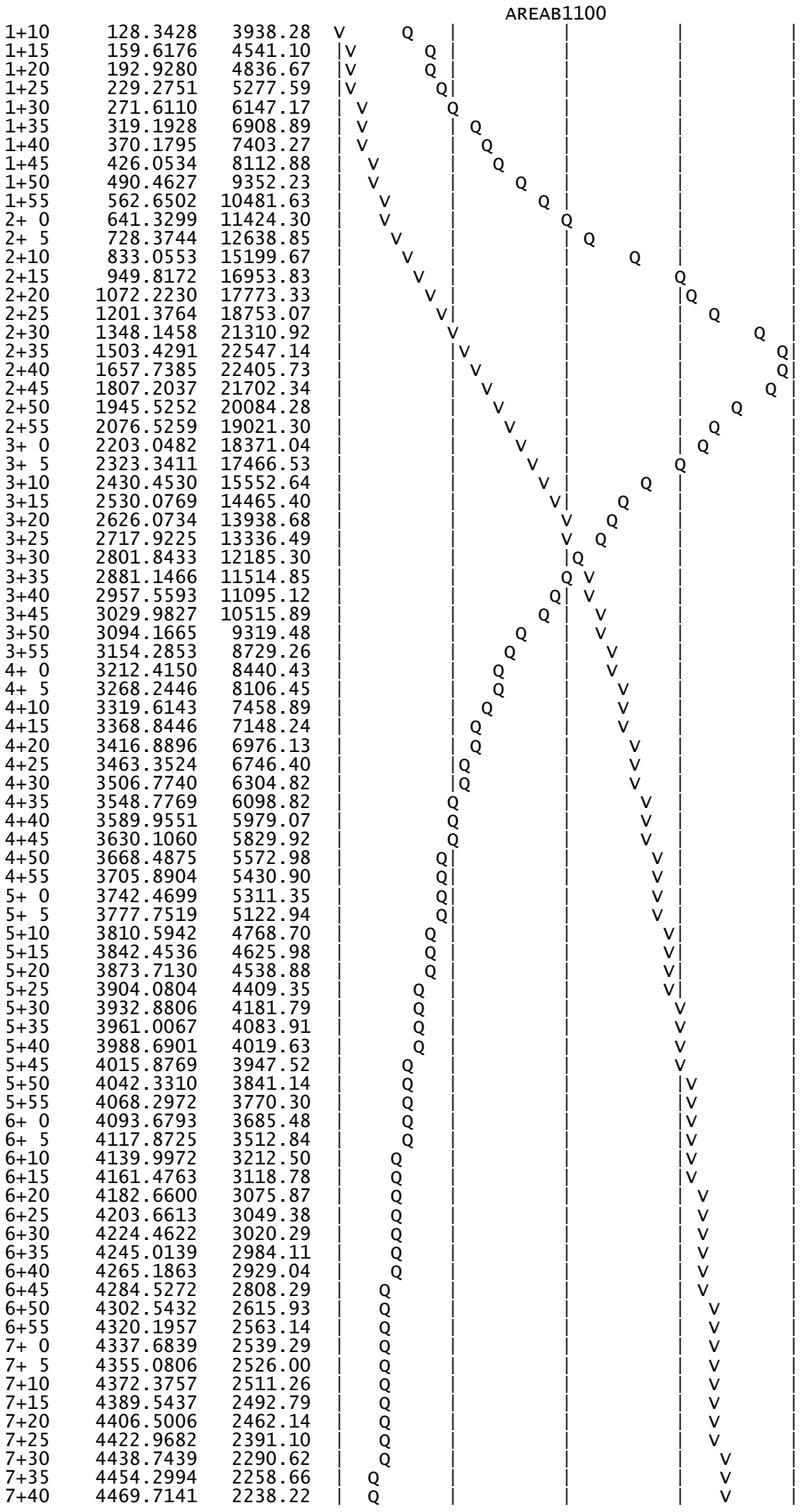
Peak flow rate of this hydrograph = 22547.138(CFS)

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1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5650.0	11300.0	16950.0	22600.0
0+ 5	0.1732	25.15	Q	|	|	|	|
0+10	0.7473	83.36	Q	|	|	|	|
0+15	1.7948	152.10	Q	|	|	|	|
0+20	3.3523	226.14	Q	|	|	|	|
0+25	5.6428	332.58	Q	|	|	|	|
0+30	8.9562	481.11	Q	|	|	|	|
0+35	13.4831	657.31	VQ	|	|	|	|
0+40	19.4841	871.36	VQ	|	|	|	|
0+45	27.7971	1207.04	V Q	|	|	|	|
0+50	41.0921	1930.44	V Q	|	|	|	|
0+55	58.9667	2595.39	V Q	|	|	|	|
1+ 0	78.8828	2891.81	V Q	|	|	|	|
1+ 5	101.2197	3243.32	V Q	|	|	|	|



1+10	128.3428	3938.28	
1+15	159.6176	4541.10	
1+20	192.9280	4836.67	
1+25	229.2751	5277.59	
1+30	271.6110	6147.17	
1+35	319.1928	6908.89	
1+40	370.1795	7403.27	
1+45	426.0534	8112.88	
1+50	490.4627	9352.23	
1+55	562.6502	10481.63	
2+ 0	641.3299	11424.30	
2+ 5	728.3744	12638.85	
2+10	833.0553	15199.67	
2+15	949.8172	16953.83	
2+20	1072.2230	17773.33	
2+25	1201.3764	18753.07	
2+30	1348.1458	21310.92	
2+35	1503.4291	22547.14	
2+40	1657.7385	22405.73	
2+45	1807.2037	21702.34	
2+50	1945.5252	20084.28	
2+55	2076.5259	19021.30	
3+ 0	2203.0482	18371.04	
3+ 5	2323.3411	17466.53	
3+10	2430.4530	15552.64	
3+15	2530.0769	14465.40	
3+20	2626.0734	13938.68	
3+25	2717.9225	13336.49	
3+30	2801.8433	12185.30	
3+35	2881.1466	11514.85	
3+40	2957.5593	11095.12	
3+45	3029.9827	10515.89	
3+50	3094.1665	9319.48	
3+55	3154.2853	8729.26	
4+ 0	3212.4150	8440.43	
4+ 5	3268.2446	8106.45	
4+10	3319.6143	7458.89	
4+15	3368.8446	7148.24	
4+20	3416.8896	6976.13	
4+25	3463.3524	6746.40	
4+30	3506.7740	6304.82	
4+35	3548.7769	6098.82	
4+40	3589.9551	5979.07	
4+45	3630.1060	5829.92	
4+50	3668.4875	5572.98	
4+55	3705.8904	5430.90	
5+ 0	3742.4699	5311.35	
5+ 5	3777.7519	5122.94	
5+10	3810.5942	4768.70	
5+15	3842.4536	4625.98	
5+20	3873.7130	4538.88	
5+25	3904.0804	4409.35	
5+30	3932.8806	4181.79	
5+35	3961.0067	4083.91	
5+40	3988.6901	4019.63	
5+45	4015.8769	3947.52	
5+50	4042.3310	3841.14	
5+55	4068.2972	3770.30	
6+ 0	4093.6793	3685.48	
6+ 5	4117.8725	3512.84	
6+10	4139.9972	3212.50	
6+15	4161.4763	3118.78	
6+20	4182.6600	3075.87	
6+25	4203.6613	3049.38	
6+30	4224.4622	3020.29	
6+35	4245.0139	2984.11	
6+40	4265.1863	2929.04	
6+45	4284.5272	2808.29	
6+50	4302.5432	2615.93	
6+55	4320.1957	2563.14	
7+ 0	4337.6839	2539.29	
7+ 5	4355.0806	2526.00	
7+10	4372.3757	2511.26	
7+15	4389.5437	2492.79	
7+20	4406.5006	2462.14	
7+25	4422.9682	2391.10	
7+30	4438.7439	2290.62	
7+35	4454.2994	2258.66	
7+40	4469.7141	2238.22	

7+45	4485.0116	2221.20	Q		V	
7+50	4500.1719	2201.27	Q		V	
7+55	4515.1589	2176.12	Q		V	
8+ 0	4529.8511	2133.30	Q		V	
8+ 5	4543.8514	2032.84	Q		V	
8+10	4556.9754	1905.61	Q		V	
8+15	4569.8337	1867.03	Q		V	
8+20	4582.5172	1841.63	Q		V	
8+25	4595.0533	1820.25	Q		V	
8+30	4607.4156	1795.01	Q		V	
8+35	4619.5567	1762.88	Q		V	
8+40	4631.3466	1711.89	Q		V	
8+45	4642.3063	1591.35	Q		V	
8+50	4652.3435	1457.41	Q		V	
8+55	4662.1896	1429.65	Q		V	
9+ 0	4671.9562	1418.11	Q		V	
9+ 5	4681.6926	1413.73	Q		V	
9+10	4691.3938	1408.61	Q		V	
9+15	4701.0498	1402.04	Q		V	
9+20	4710.6174	1389.22	Q		V	
9+25	4719.9737	1358.54	Q		V	
9+30	4729.1211	1328.20	Q		V	
9+35	4738.1914	1317.01	Q		V	
9+40	4747.2008	1308.16	Q		V	
9+45	4756.1503	1299.47	Q		V	
9+50	4765.0284	1289.09	Q		V	
9+55	4773.8139	1275.65	Q		V	
10+ 0	4782.4404	1252.58	Q		V	
10+ 5	4790.6737	1195.48	Q		V	
10+10	4798.5865	1148.94	Q		V	
10+15	4806.4186	1137.22	Q		V	
10+20	4814.2084	1131.07	Q		V	
10+25	4821.9678	1126.67	Q		V	
10+30	4829.6910	1121.41	Q		V	
10+35	4837.3661	1114.43	Q		V	
10+40	4844.9367	1099.24	Q		V	
10+45	4852.2613	1063.54	Q		V	
10+50	4859.3979	1036.23	Q		V	
10+55	4866.4488	1023.79	Q		V	
11+ 0	4873.4271	1013.25	Q		V	
11+ 5	4880.3287	1002.12	Q		V	
11+10	4887.1383	988.75	Q		V	
11+15	4893.8261	971.06	Q		V	
11+20	4900.3068	941.00	Q		V	
11+25	4906.2697	865.82	Q		V	
11+30	4911.9356	822.69	Q		V	
11+35	4917.5384	813.52	Q		V	
11+40	4923.1264	811.38	Q		V	
11+45	4928.7144	811.38	Q		V	
11+50	4934.3024	811.38	Q		V	
11+55	4939.8888	811.14	Q		V	
12+ 0	4945.4504	807.54	Q		V	
12+ 5	4950.9727	801.84	Q		V	
12+10	4956.4509	795.43	Q		V	
12+15	4961.8815	788.52	Q		V	
12+20	4967.2585	780.74	Q		V	
12+25	4972.5726	771.61	Q		V	
12+30	4977.8106	760.56	Q		V	
12+35	4982.9450	745.52	Q		V	
12+40	4987.8918	718.27	Q		V	
12+45	4992.4022	654.91	Q		V	
12+50	4996.7273	628.01	Q		V	
12+55	5001.0084	621.63	Q		V	
13+ 0	5005.2816	620.47	Q		V	
13+ 5	5009.5548	620.47	Q		V	
13+10	5013.8280	620.47	Q		V	
13+15	5018.0977	619.96	Q		V	
13+20	5022.3393	615.87	Q		V	
13+25	5026.5405	610.01	Q		V	
13+30	5030.6970	603.54	Q		V	
13+35	5034.8054	596.53	Q		V	
13+40	5038.8590	588.58	Q		V	
13+45	5042.8480	579.21	Q		V	
13+50	5046.7582	567.75	Q		V	
13+55	5050.5574	551.65	Q		V	
14+ 0	5054.1411	520.35	Q		V	
14+ 5	5057.2838	456.32	Q		V	
14+10	5060.2848	435.73	Q		V	
14+15	5063.2480	430.26	Q		V	

14+20	5066.2064	429.55	Q	|	|	|	V |
14+25	5069.1647	429.55	Q	|	|	|	V |
14+30	5072.1231	429.55	Q	|	|	|	V |
14+35	5075.0755	428.68	Q	|	|	|	V |
14+40	5077.9968	424.17	Q	|	|	|	V |
14+45	5080.8768	418.18	Q	|	|	|	V|
14+50	5083.7117	411.63	Q	|	|	|	V|
14+55	5086.4977	404.52	Q	|	|	|	V|
15+ 0	5089.2276	396.39	Q	|	|	|	V|
15+ 5	5091.8913	386.77	Q	|	|	|	V|
15+10	5094.4729	374.85	Q	|	|	|	V|
15+15	5096.9352	357.53	Q	|	|	|	V|
15+20	5099.1483	321.33	Q	|	|	|	V|
15+25	5100.9332	259.18	Q	|	|	|	V|
15+30	5102.6110	243.61	Q	|	|	|	V|
15+35	5104.2571	239.01	Q	|	|	|	V|
15+40	5105.9006	238.64	Q	|	|	|	V|
15+45	5107.5442	238.64	Q	|	|	|	V|
15+50	5109.1877	238.64	Q	|	|	|	V|
15+55	5110.8335	238.97	Q	|	|	|	V|
16+ 0	5112.4877	240.19	Q	|	|	|	V|
16+ 5	5114.1524	241.72	Q	|	|	|	V|
16+10	5115.8286	243.37	Q	|	|	|	V|
16+15	5117.5171	245.18	Q	|	|	|	V|
16+20	5119.2200	247.26	Q	|	|	|	V|
16+25	5120.9399	249.73	Q	|	|	|	V|
16+30	5122.6812	252.83	Q	|	|	|	V|
16+35	5124.4547	257.52	Q	|	|	|	V|
16+40	5126.3005	268.00	Q	|	|	|	V|
16+45	5128.2456	282.43	Q	|	|	|	V|
16+50	5130.2111	285.39	Q	|	|	|	V|
16+55	5132.1831	286.33	Q	|	|	|	V|
17+ 0	5134.1553	286.37	Q	|	|	|	V|
17+ 5	5136.1276	286.37	Q	|	|	|	V|
17+10	5138.0998	286.37	Q	|	|	|	V|
17+15	5140.0721	286.37	Q	|	|	|	V|
17+20	5142.0443	286.37	Q	|	|	|	V|
17+25	5144.0165	286.37	Q	|	|	|	V|
17+30	5145.9888	286.37	Q	|	|	|	V|
17+35	5147.9610	286.37	Q	|	|	|	V|
17+40	5149.9333	286.37	Q	|	|	|	V|
17+45	5151.9055	286.37	Q	|	|	|	V|
17+50	5153.8777	286.37	Q	|	|	|	V|
17+55	5155.8500	286.37	Q	|	|	|	V|
18+ 0	5157.8222	286.37	Q	|	|	|	V|
18+ 5	5159.7945	286.37	Q	|	|	|	V|
18+10	5161.7667	286.37	Q	|	|	|	V|
18+15	5163.7389	286.37	Q	|	|	|	V|
18+20	5165.7112	286.37	Q	|	|	|	V|
18+25	5167.6834	286.37	Q	|	|	|	V|
18+30	5169.6556	286.36	Q	|	|	|	V|
18+35	5171.6152	284.53	Q	|	|	|	V|
18+40	5173.5482	280.67	Q	|	|	|	V|
18+45	5175.4502	276.16	Q	|	|	|	V|
18+50	5177.3187	271.30	Q	|	|	|	V|
18+55	5179.1500	265.91	Q	|	|	|	V|
19+ 0	5180.9382	259.64	Q	|	|	|	V|
19+ 5	5182.6746	252.14	Q	|	|	|	V|
19+10	5184.3440	242.39	Q	|	|	|	V|
19+15	5185.9040	226.51	Q	|	|	|	V|
19+20	5187.1882	186.46	Q	|	|	|	V|
19+25	5188.2667	156.60	Q	|	|	|	V|
19+30	5189.3050	150.76	Q	|	|	|	V|
19+35	5190.3322	149.15	Q	|	|	|	V|
19+40	5191.3594	149.15	Q	|	|	|	V|
19+45	5192.3866	149.15	Q	|	|	|	V|
19+50	5193.4138	149.15	Q	|	|	|	V|
19+55	5194.4411	149.15	Q	|	|	|	V|
20+ 0	5195.4683	149.15	Q	|	|	|	V|
20+ 5	5196.4955	149.15	Q	|	|	|	V|
20+10	5197.5227	149.15	Q	|	|	|	V|
20+15	5198.5499	149.15	Q	|	|	|	V|
20+20	5199.5771	149.15	Q	|	|	|	V|
20+25	5200.6043	149.15	Q	|	|	|	V|
20+30	5201.6315	149.15	Q	|	|	|	V|
20+35	5202.6587	149.15	Q	|	|	|	V|
20+40	5203.6812	148.46	Q	|	|	|	V|
20+45	5204.6775	144.67	Q	|	|	|	V|
20+50	5205.6411	139.91	Q	|	|	|	V|

20+55	5206.5692	134.76	Q	|	|	|	V|
21+ 0	5207.4588	129.18	Q	|	|	|	V|
21+ 5	5208.3043	122.77	Q	|	|	|	V|
21+10	5209.0975	115.16	Q	|	|	|	V|
21+15	5209.8257	105.74	Q	|	|	|	V|
21+20	5210.4589	91.94	Q	|	|	|	V|
21+25	5210.8919	62.87	Q	|	|	|	V|
21+30	5210.9712	11.51	Q	|	|	|	V|
21+35	5210.9931	3.19	Q	|	|	|	V

U n i t H y d r o g r a p h A n a l y s i s

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Study date 04/20/17 File: AREAB3100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

TRI-8 Builders - S/N 615

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

MORONGO WASH & MISSION CREEK
EXISTING CONDITION
AREA "B"
100YR-3HR

Drainage Area = 71502.00(Ac.) = 111.722 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 71502.00(Ac.) = 111.722 Sq. Mi.
Length along longest watercourse = 142370.00(Ft.)
Length along longest watercourse measured to centroid = 51555.00(Ft.)
Length along longest watercourse = 26.964 Mi.
Length along longest watercourse measured to centroid = 9.764 Mi.
Difference in elevation = 7936.00(Ft.)
Slope along watercourse = 294.3182 Ft./Mi.
Average Manning's 'N' = 0.039
Lag time = 2.642 Hr.
Lag time = 158.53 Min.
25% of lag time = 39.63 Min.
40% of lag time = 63.41 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
62.00	0.70	43.40
4858.00	0.80	3886.40
41803.00	1.00	41803.00
15401.00	1.10	16941.10
6524.00	1.20	7828.80
2854.00	1.30	3710.20

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1157.00	2.00	2314.00
39.00	2.20	85.80
17407.00	2.25	39165.75
48175.00	2.50	120437.50
4724.00	2.75	12991.00

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 1.038(In)
Area Averaged 100-Year Rainfall = 2.447(In)

Point rain (area averaged) = 2.447(In)
Areal adjustment factor = 83.66 %
Adjusted average point rain = 2.048(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
71502.000	81.52	0.020

Total Area Entered = 71502.00(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
81.5	81.5	0.227	0.020	0.223	1.000	0.223
					Sum (F) =	0.223

Area averaged mean soil loss (F) (In/Hr) = 0.223
Minimum soil loss rate ((In/Hr)) = 0.111
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
DESERT S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	3.154	0.139	100.002
2	0.167	6.308	0.278	200.004
3	0.250	9.462	0.278	200.004
4	0.333	12.616	0.278	200.127
5	0.417	15.770	0.413	297.473
6	0.500	18.924	0.530	381.826
7	0.583	22.078	0.530	381.826
8	0.667	25.232	0.531	382.317
9	0.750	28.386	0.674	485.608
10	0.833	31.540	0.782	563.648
11	0.917	34.694	0.782	563.648
12	1.000	37.848	0.784	564.863
13	1.083	41.002	0.950	684.482
14	1.167	44.156	1.060	763.652
15	1.250	47.310	1.060	763.652
16	1.333	50.464	1.070	771.115
17	1.417	53.618	1.670	1203.202
18	1.500	56.772	2.019	1454.574
19	1.583	59.925	2.019	1454.574
20	1.667	63.079	2.039	1469.304
21	1.750	66.233	2.826	2036.562
22	1.833	69.387	3.230	2327.319
23	1.917	72.541	3.230	2327.319
24	2.000	75.695	3.217	2318.039
25	2.083	78.849	2.861	2061.504
26	2.167	82.003	2.700	1945.493
27	2.250	85.157	2.700	1945.493
28	2.333	88.311	2.677	1929.254
29	2.417	91.465	2.206	1590.001
30	2.500	94.619	2.019	1454.574
31	2.583	97.773	2.019	1454.574
32	2.667	100.927	2.002	1442.790
33	2.750	104.081	1.734	1249.819
34	2.833	107.235	1.640	1181.842
35	2.917	110.389	1.640	1181.842
36	3.000	113.543	1.617	1164.939
37	3.083	116.697	1.307	941.975
38	3.167	119.851	1.211	872.745
39	3.250	123.005	1.211	872.745
40	3.333	126.159	1.196	861.697
41	3.417	129.313	1.029	741.843
42	3.500	132.467	0.984	709.105
43	3.583	135.621	0.984	709.105
44	3.667	138.775	0.972	700.193
45	3.750	141.929	0.860	619.375
46	3.833	145.083	0.833	600.012
47	3.917	148.237	0.833	600.012
48	4.000	151.391	0.825	594.709
49	4.083	154.545	0.769	553.990
50	4.167	157.699	0.757	545.465
51	4.250	160.853	0.757	545.465
52	4.333	164.007	0.743	535.093
53	4.417	167.161	0.648	466.955
54	4.500	170.315	0.631	454.554
55	4.583	173.469	0.631	454.554
56	4.667	176.623	0.621	447.337
57	4.750	179.776	0.564	406.438
58	4.833	182.930	0.555	400.008
59	4.917	186.084	0.555	400.008

60	5.000	189.238	0.551	397.246
61	5.083	192.392	0.532	383.657
62	5.167	195.546	0.530	381.826
63	5.250	198.700	0.530	381.826
64	5.333	201.854	0.510	367.685
65	5.417	205.008	0.426	306.953
66	5.500	208.162	0.416	300.006
67	5.583	211.316	0.416	300.006
68	5.667	214.470	0.416	300.006
69	5.750	217.624	0.416	300.006
70	5.833	220.778	0.416	300.006
71	5.917	223.932	0.416	300.006
72	6.000	227.086	0.400	288.075
73	6.083	230.240	0.345	248.586
74	6.167	233.394	0.341	245.459
75	6.250	236.548	0.341	245.459
76	6.333	239.702	0.341	245.459
77	6.417	242.856	0.341	245.459
78	6.500	246.010	0.341	245.459
79	6.583	249.164	0.341	245.459
80	6.667	252.318	0.330	238.095
81	6.750	255.472	0.304	219.144
82	6.833	258.626	0.303	218.186
83	6.917	261.780	0.303	218.186
84	7.000	264.934	0.303	218.186
85	7.083	268.088	0.303	218.186
86	7.167	271.242	0.303	218.186
87	7.250	274.396	0.303	218.186
88	7.333	277.550	0.286	206.304
89	7.417	280.704	0.253	182.489
90	7.500	283.858	0.252	181.822
91	7.583	287.012	0.252	181.822
92	7.667	290.166	0.252	181.822
93	7.750	293.320	0.252	181.822
94	7.833	296.473	0.252	181.822
95	7.917	299.627	0.252	181.822
96	8.000	302.781	0.228	164.146
97	8.083	305.935	0.190	136.683
98	8.167	309.089	0.189	136.366
99	8.250	312.243	0.189	136.366
100	8.333	315.397	0.189	136.366
101	8.417	318.551	0.189	136.366
102	8.500	321.705	0.189	136.366
103	8.583	324.859	0.189	136.366
104	8.667	328.013	0.183	132.217
105	8.750	331.167	0.177	127.284
106	8.833	334.321	0.177	127.275
107	8.917	337.475	0.177	127.275
108	9.000	340.629	0.177	127.275
109	9.083	343.783	0.177	127.275
110	9.167	346.937	0.177	127.275
111	9.250	350.091	0.177	127.268
112	9.333	353.245	0.163	117.667
113	9.417	356.399	0.151	109.093
114	9.500	359.553	0.151	109.093
115	9.583	362.707	0.151	109.093
116	9.667	365.861	0.151	109.093
117	9.750	369.015	0.151	109.093
118	9.833	372.169	0.151	109.093
119	9.917	375.323	0.151	109.045
120	10.000	378.477	0.144	103.665
121	10.083	381.631	0.139	100.002
122	10.167	384.785	0.139	100.002
123	10.250	387.939	0.139	100.002
124	10.333	391.093	0.139	100.002
125	10.417	394.247	0.139	100.002
126	10.500	397.401	0.139	100.002
127	10.583	400.555	0.138	99.651
128	10.667	403.709	0.118	84.993
129	10.750	406.863	0.107	77.274
130	10.833	410.017	0.107	77.274
131	10.917	413.170	0.107	77.274
132	11.000	416.324	0.107	77.274
133	11.083	419.478	0.107	77.274
134	11.167	422.632	0.107	77.274
135	11.250	425.786	0.107	77.274
136	11.333	428.940	0.107	77.274
137	11.417	432.094	0.107	77.274
138	11.500	435.248	0.107	77.274

139	11.583	438.402	0.107	77.274
140	11.667	441.556	0.107	77.274
141	11.750	444.710	0.107	77.274
142	11.833	447.864	0.107	77.274
143	11.917	451.018	0.106	76.327
144	12.000	454.172	0.088	63.261
145	12.083	457.326	0.082	59.092
146	12.167	460.480	0.082	59.092
147	12.250	463.634	0.082	59.092
148	12.333	466.788	0.082	59.092
149	12.417	469.942	0.082	59.092
150	12.500	473.096	0.082	59.092
151	12.583	476.250	0.082	59.092
152	12.667	479.404	0.082	59.092
153	12.750	482.558	0.082	59.092
154	12.833	485.712	0.082	59.092
155	12.917	488.866	0.082	59.092
156	13.000	492.020	0.082	59.092
157	13.083	495.174	0.082	59.092
158	13.167	498.328	0.082	59.092
159	13.250	501.482	0.079	57.086
160	13.333	504.636	0.060	43.465
161	13.417	507.790	0.057	40.910
162	13.500	510.944	0.057	40.910
163	13.583	514.098	0.057	40.910
164	13.667	517.252	0.057	40.910
165	13.750	520.406	0.057	40.910
166	13.833	523.560	0.057	40.910
167	13.917	526.714	0.057	40.910
168	14.000	529.868	0.057	40.910
169	14.083	533.021	0.057	40.910
170	14.167	536.175	0.057	40.910
171	14.250	539.329	0.057	40.910
172	14.333	542.483	0.057	40.910
173	14.417	545.637	0.057	40.910
174	14.500	548.791	0.057	40.910
175	14.583	551.945	0.052	37.451
176	14.667	555.099	0.033	24.063
177	14.750	558.253	0.032	22.728
178	14.833	561.407	0.032	22.728
179	14.917	564.561	0.032	22.728
180	15.000	567.715	0.032	22.728
181	15.083	570.869	0.032	22.728
182	15.167	574.023	0.032	22.728
183	15.250	577.177	0.032	22.728
184	15.333	580.331	0.032	22.728
185	15.417	583.485	0.032	22.728
186	15.500	586.639	0.032	22.728
187	15.583	589.793	0.032	22.728
188	15.667	592.947	0.032	22.728
189	15.750	596.101	0.032	22.728
190	15.833	599.255	0.032	22.728
191	15.917	602.409	0.033	24.054
192	16.000	605.563	0.038	27.146
193	16.083	608.717	0.038	27.273
194	16.167	611.871	0.038	27.273
195	16.250	615.025	0.038	27.273
196	16.333	618.179	0.038	27.273
197	16.417	621.333	0.038	27.273
198	16.500	624.487	0.038	27.273
199	16.583	627.641	0.038	27.273
200	16.667	630.795	0.038	27.273
201	16.750	633.949	0.038	27.273
202	16.833	637.103	0.038	27.273
203	16.917	640.257	0.038	27.273
204	17.000	643.411	0.038	27.273
205	17.083	646.565	0.038	27.273
206	17.167	649.718	0.038	27.273
207	17.250	652.872	0.038	27.273
208	17.333	656.026	0.038	27.273
209	17.417	659.180	0.038	27.273
210	17.500	662.334	0.038	27.273
211	17.583	665.488	0.038	27.273
212	17.667	668.642	0.038	27.273
213	17.750	671.796	0.038	27.273
214	17.833	674.950	0.038	27.273
215	17.917	678.104	0.038	27.273
216	18.000	681.258	0.038	27.273
217	18.083	684.412	0.038	27.273

218	18.167	687.566	0.038	27.273
219	18.250	690.720	0.038	27.273
220	18.333	693.874	0.038	27.273
221	18.417	697.028	0.038	27.273
222	18.500	700.182	0.038	27.251
223	18.583	703.336	0.028	20.006
224	18.667	706.490	0.020	14.205
225	18.750	709.644	0.020	14.205
226	18.833	712.798	0.020	14.205
227	18.917	715.952	0.020	14.205
228	19.000	719.106	0.020	14.205
229	19.083	722.260	0.020	14.205
230	19.167	725.414	0.020	14.205
231	19.250	728.568	0.020	14.205
232	19.333	731.722	0.020	14.205
233	19.417	734.876	0.020	14.205
234	19.500	738.030	0.020	14.205
235	19.583	741.184	0.020	14.205
236	19.667	744.338	0.020	14.205
237	19.750	747.492	0.020	14.205
238	19.833	750.646	0.020	14.205
239	19.917	753.800	0.020	14.205
240	20.000	756.954	0.020	14.205
241	20.083	760.108	0.020	14.205
242	20.167	763.262	0.020	14.205
243	20.250	766.416	0.020	14.205
244	20.333	769.569	0.020	14.205
245	20.417	772.723	0.020	14.205
246	20.500	775.877	0.020	14.205
247	20.583	779.031	0.020	14.205
248	20.667	782.185	0.016	11.465
		Sum = 100.000	Sum=	72060.609

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.319	0.223	---	0.10
2	0.17	1.30	0.319	0.223	---	0.10
3	0.25	1.10	0.270	0.223	---	0.05
4	0.33	1.50	0.369	0.223	---	0.15
5	0.42	1.50	0.369	0.223	---	0.15
6	0.50	1.80	0.442	0.223	---	0.22
7	0.58	1.50	0.369	0.223	---	0.15
8	0.67	1.80	0.442	0.223	---	0.22
9	0.75	1.80	0.442	0.223	---	0.22
10	0.83	1.50	0.369	0.223	---	0.15
11	0.92	1.60	0.393	0.223	---	0.17
12	1.00	1.80	0.442	0.223	---	0.22
13	1.08	2.20	0.541	0.223	---	0.32
14	1.17	2.20	0.541	0.223	---	0.32
15	1.25	2.20	0.541	0.223	---	0.32
16	1.33	2.00	0.491	0.223	---	0.27
17	1.42	2.60	0.639	0.223	---	0.42
18	1.50	2.70	0.663	0.223	---	0.44
19	1.58	2.40	0.590	0.223	---	0.37
20	1.67	2.70	0.663	0.223	---	0.44
21	1.75	3.30	0.811	0.223	---	0.59
22	1.83	3.10	0.762	0.223	---	0.54
23	1.92	2.90	0.713	0.223	---	0.49
24	2.00	3.00	0.737	0.223	---	0.51
25	2.08	3.10	0.762	0.223	---	0.54
26	2.17	4.20	1.032	0.223	---	0.81
27	2.25	5.00	1.229	0.223	---	1.01
28	2.33	3.50	0.860	0.223	---	0.64
29	2.42	6.80	1.671	0.223	---	1.45
30	2.50	7.30	1.794	0.223	---	1.57
31	2.58	8.20	2.015	0.223	---	1.79
32	2.67	5.90	1.450	0.223	---	1.23
33	2.75	2.00	0.491	0.223	---	0.27
34	2.83	1.80	0.442	0.223	---	0.22
35	2.92	1.80	0.442	0.223	---	0.22
36	3.00	0.60	0.147	0.223	0.133	0.01
Sum =		100.0			Sum =	16.6

Flood volume = Effective rainfall 1.39(In)
times area 71502.0(Ac.)/[(In)/(Ft.)] = 8266.0(Ac.Ft)
Total soil loss = 0.66(In)
Total soil loss = 3934.297(Ac.Ft)
Total rainfall = 2.05(In)

Flood volume = 360068387.0 Cubic Feet
Total soil loss = 171377986.3 Cubic Feet

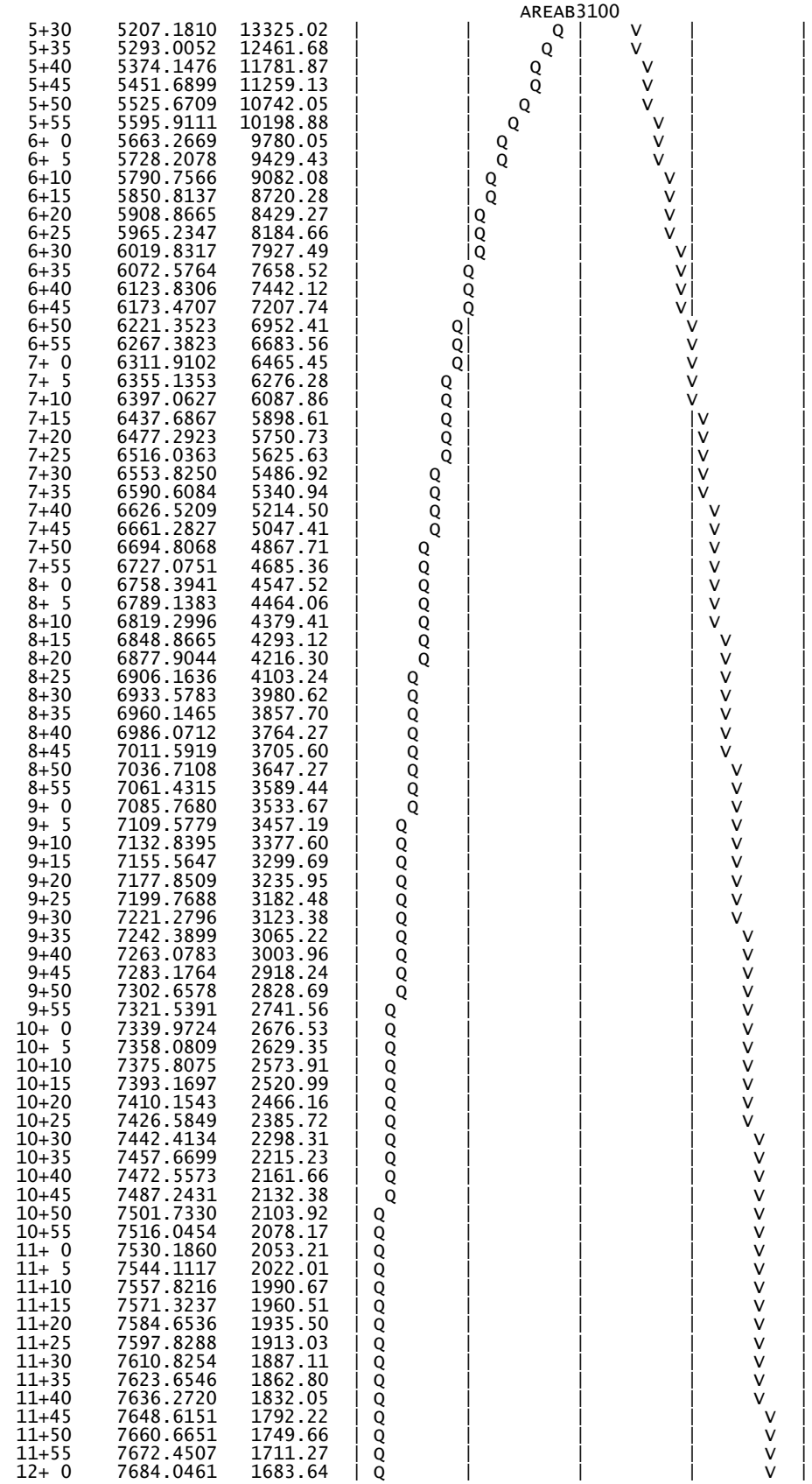
Peak flow rate of this hydrograph = 28066.877(CFS)

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3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	7025.0	14050.0	21075.0	28100.0
0+ 5	0.0667	9.69	Q				
0+10	0.2669	29.06	Q				
0+15	0.5666	43.52	Q				
0+20	0.9999	62.91	Q				
0+25	1.6993	101.56	Q				
0+30	2.7720	155.75	Q				
0+35	4.1851	205.17	Q				
0+40	5.9761	260.06	Q				
0+45	8.3221	340.64	Q				
0+50	11.2735	428.55	Q				
0+55	14.7553	505.56	Q				
1+ 0	18.8692	597.34	Q				
1+ 5	23.8925	729.38	VQ				
1+10	29.9481	879.27	VQ				
1+15	36.9575	1017.76	VQ				
1+20	45.0060	1168.65	VQ				
1+25	54.6379	1398.55	VQ				
1+30	66.2016	1679.06	V Q				
1+35	79.4803	1928.05	V Q				
1+40	94.7273	2213.86	V Q				
1+45	112.8538	2631.98	V Q				
1+50	134.4268	3132.40	V Q				
1+55	159.0536	3575.80	V Q				
2+ 0	187.1154	4074.58	V Q				
2+ 5	219.1314	4648.73	|V Q				
2+10	255.4958	5280.11	|V Q				
2+15	296.3249	5928.39	|V Q				
2+20	341.6513	6581.40	|V Q|				
2+25	392.2584	7348.15	|V Q				
2+30	448.8037	8210.37	| V |Q				
2+35	511.8261	9150.85	| V | Q				
2+40	580.8186	10017.72	| V | Q				
2+45	655.8090	10888.61	| V | Q				
2+50	737.3477	11839.42	| V | Q				
2+55	825.8239	12846.74	| V | Q				
3+ 0	920.2718	13713.83	| V | Q|				
3+ 5	1020.5539	14560.97	| V | Q				
3+10	1127.2812	15496.80	| V | Q				
3+15	1240.6218	16457.05	| V | Q				
3+20	1359.8369	17310.02	| V | Q				
3+25	1484.4656	18096.09	| V | Q				
3+30	1615.1753	18979.05	| V | Q				
3+35	1753.1417	20032.73	| V | Q				
3+40	1896.9293	20877.96	| V| Q				
3+45	2046.3937	21702.23	| V| Q				
3+50	2203.6555	22834.41	| V | Q				
3+55	2371.1221	24316.15	| V | Q				
4+ 0	2546.0441	25398.68	| V | Q				
4+ 5	2726.0131	26131.49	| V | Q				
4+10	2910.6907	26815.19	| V | Q				
4+15	3100.7683	27599.26	| V | Q				
4+20	3294.0663	28066.88	| V | Q				
4+25	3483.4621	27500.27	| V | Q				
4+30	3665.1573	26382.15	| V | Q				
4+35	3838.1152	25113.48	| V | Q				
4+40	4002.8267	23916.11	| V| Q				
4+45	4158.8686	22657.29	| V | Q				
4+50	4305.5474	21297.76	| V | Q				
4+55	4442.1655	19836.94	| V | Q				
5+ 0	4570.5113	18635.81	| V Q				
5+ 5	4692.2909	17682.41	| V Q				
5+10	4807.5063	16729.27	| Q				
5+15	4915.6251	15698.85	| QV				
5+20	5018.1211	14882.42	|Q V				
5+25	5115.4109	14126.47	| Q V				



5+30	5207.1810	13325.02	
5+35	5293.0052	12461.68	
5+40	5374.1476	11781.87	
5+45	5451.6899	11259.13	
5+50	5525.6709	10742.05	
5+55	5595.9111	10198.88	
6+ 0	5663.2669	9780.05	
6+ 5	5728.2078	9429.43	
6+10	5790.7566	9082.08	
6+15	5850.8137	8720.28	
6+20	5908.8665	8429.27	
6+25	5965.2347	8184.66	
6+30	6019.8317	7927.49	
6+35	6072.5764	7658.52	
6+40	6123.8306	7442.12	
6+45	6173.4707	7207.74	
6+50	6221.3523	6952.41	
6+55	6267.3823	6683.56	
7+ 0	6311.9102	6465.45	
7+ 5	6355.1353	6276.28	
7+10	6397.0627	6087.86	
7+15	6437.6867	5898.61	
7+20	6477.2923	5750.73	
7+25	6516.0363	5625.63	
7+30	6553.8250	5486.92	
7+35	6590.6084	5340.94	
7+40	6626.5209	5214.50	
7+45	6661.2827	5047.41	
7+50	6694.8068	4867.71	
7+55	6727.0751	4685.36	
8+ 0	6758.3941	4547.52	
8+ 5	6789.1383	4464.06	
8+10	6819.2996	4379.41	
8+15	6848.8665	4293.12	
8+20	6877.9044	4216.30	
8+25	6906.1636	4103.24	
8+30	6933.5783	3980.62	
8+35	6960.1465	3857.70	
8+40	6986.0712	3764.27	
8+45	7011.5919	3705.60	
8+50	7036.7108	3647.27	
8+55	7061.4315	3589.44	
9+ 0	7085.7680	3533.67	
9+ 5	7109.5779	3457.19	
9+10	7132.8395	3377.60	
9+15	7155.5647	3299.69	
9+20	7177.8509	3235.95	
9+25	7199.7688	3182.48	
9+30	7221.2796	3123.38	
9+35	7242.3899	3065.22	
9+40	7263.0783	3003.96	
9+45	7283.1764	2918.24	
9+50	7302.6578	2828.69	
9+55	7321.5391	2741.56	
10+ 0	7339.9724	2676.53	
10+ 5	7358.0809	2629.35	
10+10	7375.8075	2573.91	
10+15	7393.1697	2520.99	
10+20	7410.1543	2466.16	
10+25	7426.5849	2385.72	
10+30	7442.4134	2298.31	
10+35	7457.6699	2215.23	
10+40	7472.5573	2161.66	
10+45	7487.2431	2132.38	
10+50	7501.7330	2103.92	
10+55	7516.0454	2078.17	
11+ 0	7530.1860	2053.21	
11+ 5	7544.1117	2022.01	
11+10	7557.8216	1990.67	
11+15	7571.3237	1960.51	
11+20	7584.6536	1935.50	
11+25	7597.8288	1913.03	
11+30	7610.8254	1887.11	
11+35	7623.6546	1862.80	
11+40	7636.2720	1832.05	
11+45	7648.6151	1792.22	
11+50	7660.6651	1749.66	
11+55	7672.4507	1711.27	
12+ 0	7684.0461	1683.64	

12+ 5	7695.4877	1661.32	Q			V
12+10	7706.7742	1638.81	Q			V
12+15	7717.9164	1617.84	Q			V
12+20	7728.8845	1592.56	Q			V
12+25	7739.6453	1562.47	Q			V
12+30	7750.1993	1532.45	Q			V
12+35	7760.5578	1504.05	Q			V
12+40	7770.7645	1482.01	Q			V
12+45	7780.8227	1460.46	Q			V
12+50	7790.7001	1434.19	Q			V
12+55	7800.4232	1411.80	Q			V
13+ 0	7809.9250	1379.66	Q			V
13+ 5	7819.1469	1339.02	Q			V
13+10	7828.0618	1294.44	Q			V
13+15	7836.7193	1257.08	Q			V
13+20	7845.2254	1235.09	Q			V
13+25	7853.6290	1220.20	Q			V
13+30	7861.9419	1207.03	Q			V
13+35	7870.1710	1194.86	Q			V
13+40	7878.3109	1181.91	Q			V
13+45	7886.3569	1168.28	Q			V
13+50	7894.3193	1156.15	Q			V
13+55	7902.1916	1143.06	Q			V
14+ 0	7909.9689	1129.25	Q			V
14+ 5	7917.6312	1112.58	Q			V
14+10	7925.1540	1092.31	Q			V
14+15	7932.5530	1074.34	Q			V
14+20	7939.7550	1045.73	Q			V
14+25	7946.7224	1011.66	Q			V
14+30	7953.4361	974.83	Q			V
14+35	7959.9472	945.42	Q			V
14+40	7966.3363	927.70	Q			V
14+45	7972.6318	914.10	Q			V
14+50	7978.8439	902.01	Q			V
14+55	7984.9751	890.25	Q			V
15+ 0	7991.0154	877.05	Q			V
15+ 5	7996.9629	863.57	Q			V
15+10	8002.8270	851.48	Q			V
15+15	8008.6000	838.23	Q			V
15+20	8014.2763	824.20	Q			V
15+25	8019.8338	806.94	Q			V
15+30	8025.2514	786.64	Q			V
15+35	8030.5421	768.21	Q			V
15+40	8035.6249	738.03	Q			V
15+45	8040.4703	703.54	Q			V
15+50	8045.0641	667.02	Q			V
15+55	8049.4707	639.84	Q			V
16+ 0	8053.7790	625.57	Q			V
16+ 5	8058.0083	614.09	Q			V
16+10	8062.1669	603.83	Q			V
16+15	8066.2666	595.28	Q			V
16+20	8070.3002	585.67	Q			V
16+25	8074.2731	576.86	Q			V
16+30	8078.1889	568.57	Q			V
16+35	8082.0466	560.15	Q			V
16+40	8085.8369	550.34	Q			V
16+45	8089.5283	536.00	Q			V
16+50	8093.1102	520.08	Q			V
16+55	8096.5971	506.31	Q			V
17+ 0	8099.9171	482.06	Q			V
17+ 5	8103.0460	454.32	Q			V
17+10	8105.9754	425.35	Q			V
17+15	8108.7785	407.01	Q			V
17+20	8111.5534	402.92	Q			V
17+25	8114.3135	400.76	Q			V
17+30	8117.0632	399.25	Q			V
17+35	8119.8245	400.95	Q			V
17+40	8122.6036	403.52	Q			V
17+45	8125.3992	405.91	Q			V
17+50	8128.2103	408.18	Q			V
17+55	8131.0378	410.55	Q			V
18+ 0	8133.8846	413.36	Q			V
18+ 5	8136.7584	417.27	Q			V
18+10	8139.6601	421.33	Q			V
18+15	8142.5895	425.35	Q			V
18+20	8145.5646	431.99	Q			V
18+25	8148.5909	439.42	Q			V
18+30	8151.6680	446.79	Q			V
18+35	8154.7704	450.47	Q			V

18+40	8157.8728	450.48	Q	|	|	|	V|
18+45	8160.9760	450.57	Q	|	|	|	V|
18+50	8164.0749	449.96	Q	|	|	|	V|
18+55	8167.1612	448.13	Q	|	|	|	V|
19+ 0	8170.2306	445.69	Q	|	|	|	V|
19+ 5	8173.2840	443.35	Q	|	|	|	V|
19+10	8176.3205	440.90	Q	|	|	|	V|
19+15	8179.3372	438.03	Q	|	|	|	V|
19+20	8182.3379	435.70	Q	|	|	|	V|
19+25	8185.3242	433.61	Q	|	|	|	V|
19+30	8188.2926	431.02	Q	|	|	|	V|
19+35	8191.2364	427.43	Q	|	|	|	V|
19+40	8194.1515	423.27	Q	|	|	|	V|
19+45	8197.0379	419.12	Q	|	|	|	V|
19+50	8199.8982	415.31	Q	|	|	|	V|
19+55	8202.7269	410.73	Q	|	|	|	V|
20+ 0	8205.5169	405.11	Q	|	|	|	V|
20+ 5	8208.2709	399.88	Q	|	|	|	V|
20+10	8210.9881	394.54	Q	|	|	|	V|
20+15	8213.6582	387.70	Q	|	|	|	V|
20+20	8216.2779	380.37	Q	|	|	|	V|
20+25	8218.8514	373.68	Q	|	|	|	V|
20+30	8221.3796	367.09	Q	|	|	|	V|
20+35	8223.8602	360.18	Q	|	|	|	V|
20+40	8226.2769	350.90	Q	|	|	|	V|
20+45	8228.6014	337.52	Q	|	|	|	V|
20+50	8230.8451	325.79	Q	|	|	|	V|
20+55	8232.9842	310.61	Q	|	|	|	V|
21+ 0	8234.9725	288.70	Q	|	|	|	V|
21+ 5	8236.7926	264.28	Q	|	|	|	V|
21+10	8238.4597	242.06	Q	|	|	|	V|
21+15	8240.0486	230.71	Q	|	|	|	V|
21+20	8241.5943	224.43	Q	|	|	|	V|
21+25	8243.1001	218.64	Q	|	|	|	V|
21+30	8244.5816	215.12	Q	|	|	|	V|
21+35	8246.0449	212.47	Q	|	|	|	V|
21+40	8247.4849	209.08	Q	|	|	|	V|
21+45	8248.8937	204.56	Q	|	|	|	V|
21+50	8250.2714	200.04	Q	|	|	|	V|
21+55	8251.6189	195.66	Q	|	|	|	V|
22+ 0	8252.9373	191.43	Q	|	|	|	V|
22+ 5	8254.2145	185.45	Q	|	|	|	V|
22+10	8255.4500	179.39	Q	|	|	|	V|
22+15	8256.6481	173.97	Q	|	|	|	V|
22+20	8257.8003	167.30	Q	|	|	|	V|
22+25	8258.8959	159.07	Q	|	|	|	V|
22+30	8259.9396	151.55	Q	|	|	|	V|
22+35	8260.9349	144.52	Q	|	|	|	V|
22+40	8261.8794	137.14	Q	|	|	|	V|
22+45	8262.7660	128.73	Q	|	|	|	V|
22+50	8263.5696	116.69	Q	|	|	|	V|
22+55	8264.2818	103.41	Q	|	|	|	V|
23+ 0	8264.9163	92.12	Q	|	|	|	V|
23+ 5	8265.4067	71.21	Q	|	|	|	V|
23+10	8265.7391	48.27	Q	|	|	|	V|
23+15	8265.9068	24.35	Q	|	|	|	V|
23+20	8265.9725	9.54	Q	|	|	|	V|
23+25	8266.0128	5.85	Q	|	|	|	V|
23+30	8266.0316	2.73	Q	|	|	|	V|
23+35	8266.0328	0.17	Q	|	|	|	V

U n i t H y d r o g r a p h A n a l y s i s

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Study date 04/20/17 File: AREAB6100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

TRI-8 Builders - S/N 615

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

MORONGO WASH & MISSION CREEK
EXISTING CONDITION
AREA "B"
100YR-6HR

Drainage Area = 71502.00(Ac.) = 111.722 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 71502.00(Ac.) = 111.722 Sq. Mi.
Length along longest watercourse = 142370.00(Ft.)
Length along longest watercourse measured to centroid = 51555.00(Ft.)
Length along longest watercourse = 26.964 Mi.
Length along longest watercourse measured to centroid = 9.764 Mi.
Difference in elevation = 7936.00(Ft.)
Slope along watercourse = 294.3182 Ft./Mi.
Average Manning's 'N' = 0.039
Lag time = 2.642 Hr.
Lag time = 158.53 Min.
25% of lag time = 39.63 Min.
40% of lag time = 63.41 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1907.00	1.00	1907.00
27456.00	1.20	32947.20
31797.00	1.40	44515.80
7180.00	1.60	11488.00
3162.00	1.80	5691.60

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
1879.00	2.50	4697.50
3215.00	2.75	8841.25
52197.00	3.00	156591.00
12628.00	3.50	44198.00
1583.00	4.00	6332.00

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 1.350(In)
Area Averaged 100-Year Rainfall = 3.086(In)

Point rain (area averaged) = 3.086(In)
Areal adjustment factor = 88.41 %
Adjusted average point rain = 2.729(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
71502.000	81.52	0.020

Total Area Entered = 71502.00(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
81.5	81.5	0.227	0.020	0.223	1.000	0.223
					Sum (F) =	0.223

Area averaged mean soil loss (F) (In/Hr) = 0.223
Minimum soil loss rate ((In/Hr)) = 0.111
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
DESERT S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	3.154	0.139	100.002
2	0.167	6.308	0.278	200.004
3	0.250	9.462	0.278	200.004
4	0.333	12.616	0.278	200.127
5	0.417	15.770	0.413	297.473
6	0.500	18.924	0.530	381.826
7	0.583	22.078	0.530	381.826
8	0.667	25.232	0.531	382.317
9	0.750	28.386	0.674	485.608
10	0.833	31.540	0.782	563.648
11	0.917	34.694	0.782	563.648
12	1.000	37.848	0.784	564.863
13	1.083	41.002	0.950	684.482
14	1.167	44.156	1.060	763.652
15	1.250	47.310	1.060	763.652
16	1.333	50.464	1.070	771.115
17	1.417	53.618	1.670	1203.202
18	1.500	56.772	2.019	1454.574
19	1.583	59.925	2.019	1454.574
20	1.667	63.079	2.039	1469.304
21	1.750	66.233	2.826	2036.562
22	1.833	69.387	3.230	2327.319
23	1.917	72.541	3.230	2327.319
24	2.000	75.695	3.217	2318.039
25	2.083	78.849	2.861	2061.504
26	2.167	82.003	2.700	1945.493
27	2.250	85.157	2.700	1945.493
28	2.333	88.311	2.677	1929.254
29	2.417	91.465	2.206	1590.001
30	2.500	94.619	2.019	1454.574
31	2.583	97.773	2.019	1454.574
32	2.667	100.927	2.002	1442.790
33	2.750	104.081	1.734	1249.819
34	2.833	107.235	1.640	1181.842
35	2.917	110.389	1.640	1181.842
36	3.000	113.543	1.617	1164.939
37	3.083	116.697	1.307	941.975
38	3.167	119.851	1.211	872.745
39	3.250	123.005	1.211	872.745
40	3.333	126.159	1.196	861.697
41	3.417	129.313	1.029	741.843
42	3.500	132.467	0.984	709.105
43	3.583	135.621	0.984	709.105
44	3.667	138.775	0.972	700.193
45	3.750	141.929	0.860	619.375
46	3.833	145.083	0.833	600.012
47	3.917	148.237	0.833	600.012
48	4.000	151.391	0.825	594.709
49	4.083	154.545	0.769	553.990
50	4.167	157.699	0.757	545.465
51	4.250	160.853	0.757	545.465
52	4.333	164.007	0.743	535.093
53	4.417	167.161	0.648	466.955
54	4.500	170.315	0.631	454.554
55	4.583	173.469	0.631	454.554
56	4.667	176.623	0.621	447.337
57	4.750	179.776	0.564	406.438
58	4.833	182.930	0.555	400.008
59	4.917	186.084	0.555	400.008
60	5.000	189.238	0.551	397.246

61	5.083	192.392	0.532	383.657
62	5.167	195.546	0.530	381.826
63	5.250	198.700	0.530	381.826
64	5.333	201.854	0.510	367.685
65	5.417	205.008	0.426	306.953
66	5.500	208.162	0.416	300.006
67	5.583	211.316	0.416	300.006
68	5.667	214.470	0.416	300.006
69	5.750	217.624	0.416	300.006
70	5.833	220.778	0.416	300.006
71	5.917	223.932	0.416	300.006
72	6.000	227.086	0.400	288.075
73	6.083	230.240	0.345	248.586
74	6.167	233.394	0.341	245.459
75	6.250	236.548	0.341	245.459
76	6.333	239.702	0.341	245.459
77	6.417	242.856	0.341	245.459
78	6.500	246.010	0.341	245.459
79	6.583	249.164	0.341	245.459
80	6.667	252.318	0.330	238.095
81	6.750	255.472	0.304	219.144
82	6.833	258.626	0.303	218.186
83	6.917	261.780	0.303	218.186
84	7.000	264.934	0.303	218.186
85	7.083	268.088	0.303	218.186
86	7.167	271.242	0.303	218.186
87	7.250	274.396	0.303	218.186
88	7.333	277.550	0.286	206.304
89	7.417	280.704	0.253	182.489
90	7.500	283.858	0.252	181.822
91	7.583	287.012	0.252	181.822
92	7.667	290.166	0.252	181.822
93	7.750	293.320	0.252	181.822
94	7.833	296.473	0.252	181.822
95	7.917	299.627	0.252	181.822
96	8.000	302.781	0.228	164.146
97	8.083	305.935	0.190	136.683
98	8.167	309.089	0.189	136.366
99	8.250	312.243	0.189	136.366
100	8.333	315.397	0.189	136.366
101	8.417	318.551	0.189	136.366
102	8.500	321.705	0.189	136.366
103	8.583	324.859	0.189	136.366
104	8.667	328.013	0.183	132.217
105	8.750	331.167	0.177	127.284
106	8.833	334.321	0.177	127.275
107	8.917	337.475	0.177	127.275
108	9.000	340.629	0.177	127.275
109	9.083	343.783	0.177	127.275
110	9.167	346.937	0.177	127.275
111	9.250	350.091	0.177	127.268
112	9.333	353.245	0.163	117.667
113	9.417	356.399	0.151	109.093
114	9.500	359.553	0.151	109.093
115	9.583	362.707	0.151	109.093
116	9.667	365.861	0.151	109.093
117	9.750	369.015	0.151	109.093
118	9.833	372.169	0.151	109.093
119	9.917	375.323	0.151	109.045
120	10.000	378.477	0.144	103.665
121	10.083	381.631	0.139	100.002
122	10.167	384.785	0.139	100.002
123	10.250	387.939	0.139	100.002
124	10.333	391.093	0.139	100.002
125	10.417	394.247	0.139	100.002
126	10.500	397.401	0.139	100.002
127	10.583	400.555	0.138	99.651
128	10.667	403.709	0.118	84.993
129	10.750	406.863	0.107	77.274
130	10.833	410.017	0.107	77.274
131	10.917	413.170	0.107	77.274
132	11.000	416.324	0.107	77.274
133	11.083	419.478	0.107	77.274
134	11.167	422.632	0.107	77.274
135	11.250	425.786	0.107	77.274
136	11.333	428.940	0.107	77.274
137	11.417	432.094	0.107	77.274
138	11.500	435.248	0.107	77.274
139	11.583	438.402	0.107	77.274

140	11.667	441.556	0.107	77.274
141	11.750	444.710	0.107	77.274
142	11.833	447.864	0.107	77.274
143	11.917	451.018	0.106	76.327
144	12.000	454.172	0.088	63.261
145	12.083	457.326	0.082	59.092
146	12.167	460.480	0.082	59.092
147	12.250	463.634	0.082	59.092
148	12.333	466.788	0.082	59.092
149	12.417	469.942	0.082	59.092
150	12.500	473.096	0.082	59.092
151	12.583	476.250	0.082	59.092
152	12.667	479.404	0.082	59.092
153	12.750	482.558	0.082	59.092
154	12.833	485.712	0.082	59.092
155	12.917	488.866	0.082	59.092
156	13.000	492.020	0.082	59.092
157	13.083	495.174	0.082	59.092
158	13.167	498.328	0.082	59.092
159	13.250	501.482	0.079	57.086
160	13.333	504.636	0.060	43.465
161	13.417	507.790	0.057	40.910
162	13.500	510.944	0.057	40.910
163	13.583	514.098	0.057	40.910
164	13.667	517.252	0.057	40.910
165	13.750	520.406	0.057	40.910
166	13.833	523.560	0.057	40.910
167	13.917	526.714	0.057	40.910
168	14.000	529.868	0.057	40.910
169	14.083	533.021	0.057	40.910
170	14.167	536.175	0.057	40.910
171	14.250	539.329	0.057	40.910
172	14.333	542.483	0.057	40.910
173	14.417	545.637	0.057	40.910
174	14.500	548.791	0.057	40.910
175	14.583	551.945	0.052	37.451
176	14.667	555.099	0.033	24.063
177	14.750	558.253	0.032	22.728
178	14.833	561.407	0.032	22.728
179	14.917	564.561	0.032	22.728
180	15.000	567.715	0.032	22.728
181	15.083	570.869	0.032	22.728
182	15.167	574.023	0.032	22.728
183	15.250	577.177	0.032	22.728
184	15.333	580.331	0.032	22.728
185	15.417	583.485	0.032	22.728
186	15.500	586.639	0.032	22.728
187	15.583	589.793	0.032	22.728
188	15.667	592.947	0.032	22.728
189	15.750	596.101	0.032	22.728
190	15.833	599.255	0.032	22.728
191	15.917	602.409	0.033	24.054
192	16.000	605.563	0.038	27.146
193	16.083	608.717	0.038	27.273
194	16.167	611.871	0.038	27.273
195	16.250	615.025	0.038	27.273
196	16.333	618.179	0.038	27.273
197	16.417	621.333	0.038	27.273
198	16.500	624.487	0.038	27.273
199	16.583	627.641	0.038	27.273
200	16.667	630.795	0.038	27.273
201	16.750	633.949	0.038	27.273
202	16.833	637.103	0.038	27.273
203	16.917	640.257	0.038	27.273
204	17.000	643.411	0.038	27.273
205	17.083	646.565	0.038	27.273
206	17.167	649.718	0.038	27.273
207	17.250	652.872	0.038	27.273
208	17.333	656.026	0.038	27.273
209	17.417	659.180	0.038	27.273
210	17.500	662.334	0.038	27.273
211	17.583	665.488	0.038	27.273
212	17.667	668.642	0.038	27.273
213	17.750	671.796	0.038	27.273
214	17.833	674.950	0.038	27.273
215	17.917	678.104	0.038	27.273
216	18.000	681.258	0.038	27.273
217	18.083	684.412	0.038	27.273
218	18.167	687.566	0.038	27.273

219	18.250	690.720	0.038	27.273
220	18.333	693.874	0.038	27.273
221	18.417	697.028	0.038	27.273
222	18.500	700.182	0.038	27.251
223	18.583	703.336	0.028	20.006
224	18.667	706.490	0.020	14.205
225	18.750	709.644	0.020	14.205
226	18.833	712.798	0.020	14.205
227	18.917	715.952	0.020	14.205
228	19.000	719.106	0.020	14.205
229	19.083	722.260	0.020	14.205
230	19.167	725.414	0.020	14.205
231	19.250	728.568	0.020	14.205
232	19.333	731.722	0.020	14.205
233	19.417	734.876	0.020	14.205
234	19.500	738.030	0.020	14.205
235	19.583	741.184	0.020	14.205
236	19.667	744.338	0.020	14.205
237	19.750	747.492	0.020	14.205
238	19.833	750.646	0.020	14.205
239	19.917	753.800	0.020	14.205
240	20.000	756.954	0.020	14.205
241	20.083	760.108	0.020	14.205
242	20.167	763.262	0.020	14.205
243	20.250	766.416	0.020	14.205
244	20.333	769.569	0.020	14.205
245	20.417	772.723	0.020	14.205
246	20.500	775.877	0.020	14.205
247	20.583	779.031	0.020	14.205
248	20.667	782.185	0.016	11.465
		Sum = 100.000	Sum=	72060.609

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.164	0.223	0.147	0.02
2	0.17	0.60	0.196	0.223	0.177	0.02
3	0.25	0.60	0.196	0.223	0.177	0.02
4	0.33	0.60	0.196	0.223	0.177	0.02
5	0.42	0.60	0.196	0.223	0.177	0.02
6	0.50	0.70	0.229	0.223	---	0.01
7	0.58	0.70	0.229	0.223	---	0.01
8	0.67	0.70	0.229	0.223	---	0.01
9	0.75	0.70	0.229	0.223	---	0.01
10	0.83	0.70	0.229	0.223	---	0.01
11	0.92	0.70	0.229	0.223	---	0.01
12	1.00	0.80	0.262	0.223	---	0.04
13	1.08	0.80	0.262	0.223	---	0.04
14	1.17	0.80	0.262	0.223	---	0.04
15	1.25	0.80	0.262	0.223	---	0.04
16	1.33	0.80	0.262	0.223	---	0.04
17	1.42	0.80	0.262	0.223	---	0.04
18	1.50	0.80	0.262	0.223	---	0.04
19	1.58	0.80	0.262	0.223	---	0.04
20	1.67	0.80	0.262	0.223	---	0.04
21	1.75	0.80	0.262	0.223	---	0.04
22	1.83	0.80	0.262	0.223	---	0.04
23	1.92	0.80	0.262	0.223	---	0.04
24	2.00	0.90	0.295	0.223	---	0.07
25	2.08	0.80	0.262	0.223	---	0.04
26	2.17	0.90	0.295	0.223	---	0.07
27	2.25	0.90	0.295	0.223	---	0.07
28	2.33	0.90	0.295	0.223	---	0.07
29	2.42	0.90	0.295	0.223	---	0.07
30	2.50	0.90	0.295	0.223	---	0.07
31	2.58	0.90	0.295	0.223	---	0.07
32	2.67	0.90	0.295	0.223	---	0.07
33	2.75	1.00	0.327	0.223	---	0.10
34	2.83	1.00	0.327	0.223	---	0.10
35	2.92	1.00	0.327	0.223	---	0.10
36	3.00	1.00	0.327	0.223	---	0.10
37	3.08	1.00	0.327	0.223	---	0.10
38	3.17	1.10	0.360	0.223	---	0.14
39	3.25	1.10	0.360	0.223	---	0.14
40	3.33	1.10	0.360	0.223	---	0.14
41	3.42	1.20	0.393	0.223	---	0.17
42	3.50	1.30	0.426	0.223	---	0.20
43	3.58	1.40	0.458	0.223	---	0.24

44	3.67	1.40	0.458	0.223	---	0.24
45	3.75	1.50	0.491	0.223	---	0.27
46	3.83	1.50	0.491	0.223	---	0.27
47	3.92	1.60	0.524	0.223	---	0.30
48	4.00	1.60	0.524	0.223	---	0.30
49	4.08	1.70	0.557	0.223	---	0.33
50	4.17	1.80	0.589	0.223	---	0.37
51	4.25	1.90	0.622	0.223	---	0.40
52	4.33	2.00	0.655	0.223	---	0.43
53	4.42	2.10	0.688	0.223	---	0.46
54	4.50	2.10	0.688	0.223	---	0.46
55	4.58	2.20	0.720	0.223	---	0.50
56	4.67	2.30	0.753	0.223	---	0.53
57	4.75	2.40	0.786	0.223	---	0.56
58	4.83	2.40	0.786	0.223	---	0.56
59	4.92	2.50	0.819	0.223	---	0.60
60	5.00	2.60	0.851	0.223	---	0.63
61	5.08	3.10	1.015	0.223	---	0.79
62	5.17	3.60	1.179	0.223	---	0.96
63	5.25	3.90	1.277	0.223	---	1.05
64	5.33	4.20	1.375	0.223	---	1.15
65	5.42	4.70	1.539	0.223	---	1.32
66	5.50	5.60	1.834	0.223	---	1.61
67	5.58	1.90	0.622	0.223	---	0.40
68	5.67	0.90	0.295	0.223	---	0.07
69	5.75	0.60	0.196	0.223	0.177	0.02
70	5.83	0.50	0.164	0.223	0.147	0.02
71	5.92	0.30	0.098	0.223	0.088	0.01
72	6.00	0.20	0.065	0.223	0.059	0.01
Sum =		100.0			Sum =	17.4

Flood volume = Effective rainfall 1.45(In)
times area 71502.0(Ac.)/[(In)/(Ft.)] = 8636.2(Ac.Ft)
Total soil loss = 1.28(In)
Total soil loss = 7621.590(Ac.Ft)
Total rainfall = 2.73(In)
Flood volume = 376194426.3 Cubic Feet
Total soil loss = 331996447.0 Cubic Feet

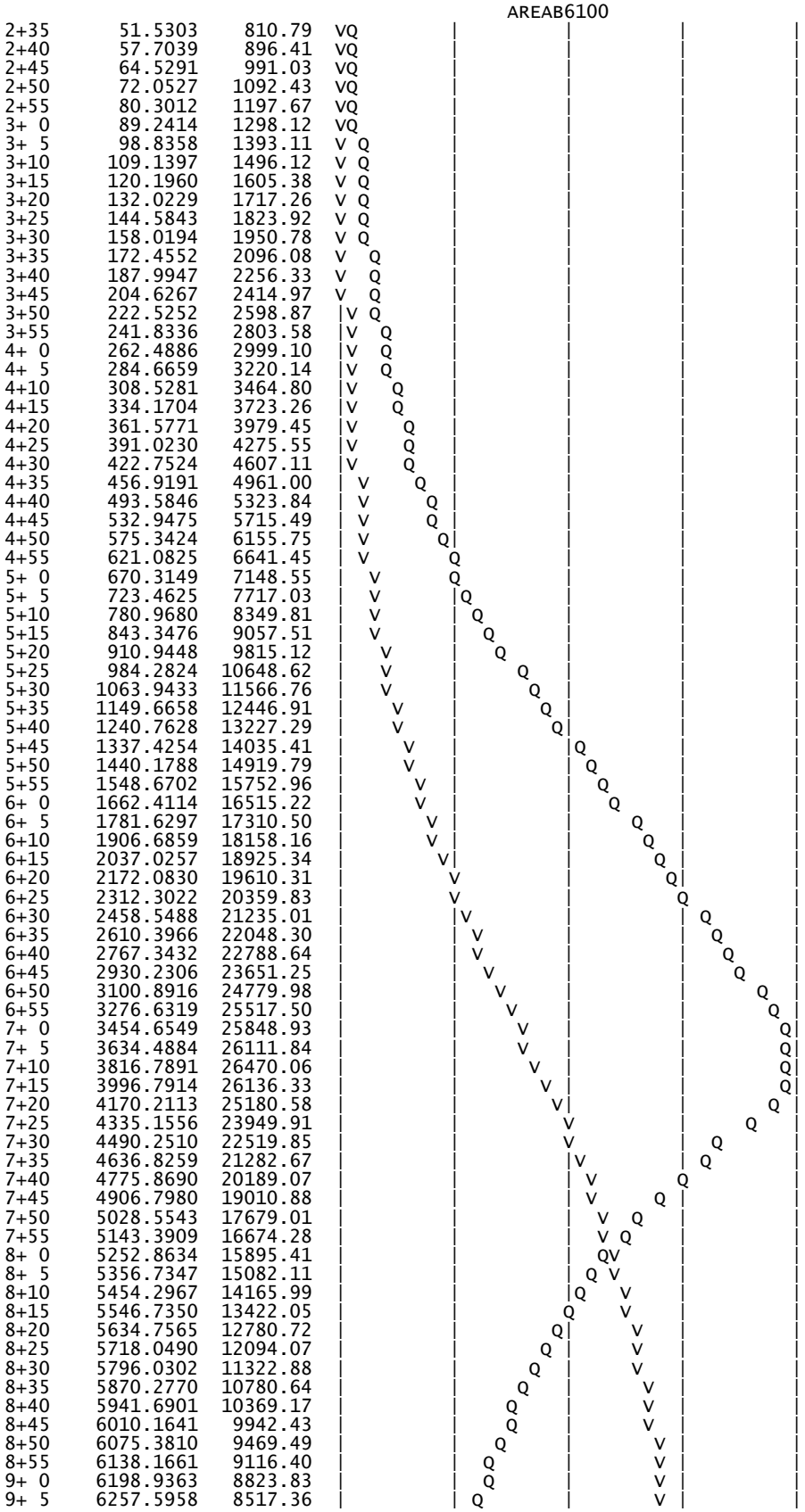
Peak flow rate of this hydrograph = 26470.057(CFS)

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6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	6625.0	13250.0	19875.0	26500.0
0+ 5	0.0113	1.64	Q	|	|	|	|
0+10	0.0474	5.24	Q	|	|	|	|
0+15	0.1106	9.17	Q	|	|	|	|
0+20	0.2008	13.11	Q	|	|	|	|
0+25	0.3291	18.63	Q	|	|	|	|
0+30	0.4983	24.56	Q	|	|	|	|
0+35	0.7011	29.45	Q	|	|	|	|
0+40	0.9377	34.36	Q	|	|	|	|
0+45	1.2198	40.95	Q	|	|	|	|
0+50	1.5496	47.89	Q	|	|	|	|
0+55	1.9214	53.99	Q	|	|	|	|
1+ 0	2.3579	63.38	Q	|	|	|	|
1+ 5	2.8951	78.01	Q	|	|	|	|
1+10	3.5354	92.97	Q	|	|	|	|
1+15	4.2736	107.18	Q	|	|	|	|
1+20	5.1325	124.70	Q	|	|	|	|
1+25	6.1798	152.08	Q	|	|	|	|
1+30	7.4430	183.42	Q	|	|	|	|
1+35	8.9208	214.57	Q	|	|	|	|
1+40	10.6380	249.34	Q	|	|	|	|
1+45	12.6760	295.92	Q	|	|	|	|
1+50	15.0415	343.47	Q	|	|	|	|
1+55	17.7188	388.74	Q	|	|	|	|
2+ 0	20.7563	441.05	Q	|	|	|	|
2+ 5	24.1415	491.53	Q	|	|	|	|
2+10	27.8045	531.87	Q	|	|	|	|
2+15	31.7408	571.55	Q	|	|	|	|
2+20	36.0680	628.31	Q	|	|	|	|
2+25	40.8022	687.40	VQ	|	|	|	|
2+30	45.9463	746.93	VQ	|	|	|	|



2+35	51.5303	810.79	
2+40	57.7039	896.41	
2+45	64.5291	991.03	
2+50	72.0527	1092.43	
2+55	80.3012	1197.67	
3+ 0	89.2414	1298.12	
3+ 5	98.8358	1393.11	
3+10	109.1397	1496.12	
3+15	120.1960	1605.38	
3+20	132.0229	1717.26	
3+25	144.5843	1823.92	
3+30	158.0194	1950.78	
3+35	172.4552	2096.08	
3+40	187.9947	2256.33	
3+45	204.6267	2414.97	
3+50	222.5252	2598.87	
3+55	241.8336	2803.58	
4+ 0	262.4886	2999.10	
4+ 5	284.6659	3220.14	
4+10	308.5281	3464.80	
4+15	334.1704	3723.26	
4+20	361.5771	3979.45	
4+25	391.0230	4275.55	
4+30	422.7524	4607.11	
4+35	456.9191	4961.00	
4+40	493.5846	5323.84	
4+45	532.9475	5715.49	
4+50	575.3424	6155.75	
4+55	621.0825	6641.45	
5+ 0	670.3149	7148.55	
5+ 5	723.4625	7717.03	
5+10	780.9680	8349.81	
5+15	843.3476	9057.51	
5+20	910.9448	9815.12	
5+25	984.2824	10648.62	
5+30	1063.9433	11566.76	
5+35	1149.6658	12446.91	
5+40	1240.7628	13227.29	
5+45	1337.4254	14035.41	
5+50	1440.1788	14919.79	
5+55	1548.6702	15752.96	
6+ 0	1662.4114	16515.22	
6+ 5	1781.6297	17310.50	
6+10	1906.6859	18158.16	
6+15	2037.0257	18925.34	
6+20	2172.0830	19610.31	
6+25	2312.3022	20359.83	
6+30	2458.5488	21235.01	
6+35	2610.3966	22048.30	
6+40	2767.3432	22788.64	
6+45	2930.2306	23651.25	
6+50	3100.8916	24779.98	
6+55	3276.6319	25517.50	
7+ 0	3454.6549	25848.93	
7+ 5	3634.4884	26111.84	
7+10	3816.7891	26470.06	
7+15	3996.7914	26136.33	
7+20	4170.2113	25180.58	
7+25	4335.1556	23949.91	
7+30	4490.2510	22519.85	
7+35	4636.8259	21282.67	
7+40	4775.8690	20189.07	
7+45	4906.7980	19010.88	
7+50	5028.5543	17679.01	
7+55	5143.3909	16674.28	
8+ 0	5252.8634	15895.41	
8+ 5	5356.7347	15082.11	
8+10	5454.2967	14165.99	
8+15	5546.7350	13422.05	
8+20	5634.7565	12780.72	
8+25	5718.0490	12094.07	
8+30	5796.0302	11322.88	
8+35	5870.2770	10780.64	
8+40	5941.6901	10369.17	
8+45	6010.1641	9942.43	
8+50	6075.3810	9469.49	
8+55	6138.1661	9116.40	
9+ 0	6198.9363	8823.83	
9+ 5	6257.5958	8517.36	

9+10	6313.9665	8185.03	| Q V| |
9+15	6368.6197	7935.65	|Q V| |
9+20	6421.8089	7723.07	|Q V| |
9+25	6473.4138	7493.04	|Q V| |
9+30	6523.2588	7237.49	Q V |
9+35	6571.5718	7015.05	Q V |
9+40	6618.4088	6800.74	Q V |
9+45	6663.6175	6564.30	Q| V |
9+50	6707.0662	6308.75	Q| |V |
9+55	6749.2506	6125.17	Q| |V |
10+ 0	6790.3573	5968.70	Q| |V |
10+ 5	6830.3208	5802.70	Q | |V |
10+10	6869.0690	5626.23	Q | |V |
10+15	6906.9010	5493.21	Q | |V |
10+20	6943.9070	5373.28	Q | | V |
10+25	6979.9957	5240.07	Q | | V |
10+30	7015.0683	5092.53	Q | | V |
10+35	7049.1673	4951.18	Q | | V |
10+40	7082.2568	4804.60	Q | | V |
10+45	7114.2152	4640.36	Q | | V |
10+50	7145.0115	4471.63	Q | | V |
10+55	7175.1469	4375.65	Q | | V |
11+ 0	7204.7890	4304.04	Q | | V |
11+ 5	7233.9052	4227.68	Q | | V |
11+10	7262.4338	4142.35	Q | | V |
11+15	7290.3261	4049.96	Q | | V |
11+20	7317.5284	3949.78	Q | | V |
11+25	7343.9487	3836.23	Q | | V |
11+30	7369.5808	3721.78	Q | | V |
11+35	7394.7512	3654.74	Q | | V |
11+40	7419.5526	3601.17	Q | | V |
11+45	7443.9641	3544.55	Q | | V |
11+50	7467.9527	3483.15	Q | | V |
11+55	7491.4862	3417.05	Q | | V |
12+ 0	7514.5277	3345.63	Q | | V |
12+ 5	7537.0214	3266.09	Q | | V |
12+10	7558.9733	3187.41	Q | | V |
12+15	7580.5367	3131.01	Q | | V |
12+20	7601.7351	3078.01	Q | | V |
12+25	7622.5288	3019.25	Q | | V |
12+30	7642.8768	2954.52	Q | | V |
12+35	7662.7404	2884.20	Q | | V |
12+40	7682.0775	2807.75	Q | | V |
12+45	7700.8228	2721.81	Q | | V |
12+50	7719.0141	2641.38	Q | | V |
12+55	7736.8586	2591.02	Q | | V |
13+ 0	7754.3886	2545.35	Q | | V |
13+ 5	7771.5590	2493.15	Q | | V |
13+10	7788.3242	2434.29	Q | | V |
13+15	7804.6500	2370.52	Q | | V |
13+20	7820.4887	2299.78	Q | | V |
13+25	7835.7646	2218.06	Q | | V |
13+30	7850.5620	2148.58	Q | | V |
13+35	7865.1424	2117.08	Q | | V |
13+40	7879.5659	2094.28	Q | | V |
13+45	7893.8282	2070.90	Q | | V |
13+50	7907.9176	2045.77	Q | | V |
13+55	7921.8217	2018.87	Q | | V |
14+ 0	7935.5270	1990.01	Q | | V |
14+ 5	7949.0096	1957.68	Q | | V |
14+10	7962.2835	1927.37	Q | | V |
14+15	7975.3881	1902.80	Q | | V |
14+20	7988.3176	1877.35	Q | | V |
14+25	8001.0505	1848.82	Q | | V |
14+30	8013.5666	1817.33	Q | | V |
14+35	8025.8492	1783.44	Q | | V |
14+40	8037.8722	1745.74	Q | | V |
14+45	8049.5993	1702.77	Q | | V |
14+50	8061.0868	1667.99	Q | | V |
14+55	8072.4207	1645.69	Q | | V |
15+ 0	8083.6121	1624.98	Q | | V |
15+ 5	8094.6503	1602.75	Q | | V |
15+10	8105.5236	1578.80	Q | | V |
15+15	8116.2184	1552.88	Q | | V |
15+20	8126.7205	1524.91	Q | | V |
15+25	8137.0073	1493.64	Q | | V |
15+30	8147.1076	1466.57	Q | | V |
15+35	8157.0547	1444.31	Q | | V |
15+40	8166.8368	1420.36	Q | | V |

15+45	8176.4286	1392.74	Q			V
15+50	8185.8088	1362.00	Q			V
15+55	8194.9606	1328.84	Q			V
16+ 0	8203.8560	1291.61	Q			V
16+ 5	8212.4551	1248.58	Q			V
16+10	8220.8611	1220.56	Q			V
16+15	8229.1677	1206.12	Q			V
16+20	8237.3932	1194.33	Q			V
16+25	8245.5360	1182.34	Q			V
16+30	8253.5926	1169.82	Q			V
16+35	8261.5569	1156.41	Q			V
16+40	8269.4242	1142.33	Q			V
16+45	8277.1868	1127.14	Q			V
16+50	8284.8380	1110.96	Q			V
16+55	8292.3725	1094.01	Q			V
17+ 0	8299.7705	1074.19	Q			V
17+ 5	8307.0109	1051.30	Q			V
17+10	8314.0764	1025.91	Q			V
17+15	8320.9524	998.40	Q			V
17+20	8327.6130	967.12	Q			V
17+25	8334.0304	931.81	Q			V
17+30	8340.3033	910.82	Q			V
17+35	8346.4921	898.62	Q			V
17+40	8352.6066	887.83	Q			V
17+45	8358.6446	876.72	Q			V
17+50	8364.6033	865.20	Q			V
17+55	8370.4787	853.10	Q			V
18+ 0	8376.2636	839.97	Q			V
18+ 5	8381.9539	826.22	Q			V
18+10	8387.5426	811.48	Q			V
18+15	8393.0228	795.72	Q			V
18+20	8398.3732	776.89	Q			V
18+25	8403.5733	755.04	Q			V
18+30	8408.6064	730.81	Q			V
18+35	8413.4577	704.42	Q			V
18+40	8418.1023	674.39	Q			V
18+45	8422.5221	641.75	Q			V
18+50	8426.8259	624.92	Q			V
18+55	8431.0626	615.17	Q			V
19+ 0	8435.2405	606.63	Q			V
19+ 5	8439.3610	598.30	Q			V
19+10	8443.4210	589.52	Q			V
19+15	8447.4174	580.27	Q			V
19+20	8451.3484	570.78	Q			V
19+25	8455.2141	561.30	Q			V
19+30	8459.0097	551.13	Q			V
19+35	8462.7271	539.77	Q			V
19+40	8466.3477	525.71	Q			V
19+45	8469.8528	508.95	Q			V
19+50	8473.2303	490.41	Q			V
19+55	8476.4666	469.90	Q			V
20+ 0	8479.5396	446.20	Q			V
20+ 5	8482.4506	422.67	Q			V
20+10	8485.3174	416.26	Q			V
20+15	8488.1837	416.19	Q			V
20+20	8491.0581	417.37	Q			V
20+25	8493.9419	418.73	Q			V
20+30	8496.8352	420.11	Q			V
20+35	8499.7398	421.75	Q			V
20+40	8502.6565	423.50	Q			V
20+45	8505.5830	424.92	Q			V
20+50	8508.5200	426.45	Q			V
20+55	8511.4697	428.30	Q			V
21+ 0	8514.4372	430.88	Q			V
21+ 5	8517.4272	434.15	Q			V
21+10	8520.4439	438.03	Q			V
21+15	8523.4894	442.20	Q			V
21+20	8526.5685	447.09	Q			V
21+25	8529.6767	451.31	Q			V
21+30	8532.7854	451.38	Q			V
21+35	8535.8854	450.13	Q			V
21+40	8538.9712	448.05	Q			V
21+45	8542.0411	445.76	Q			V
21+50	8545.0951	443.44	Q			V
21+55	8548.1314	440.86	Q			V
22+ 0	8551.1468	437.84	Q			V
22+ 5	8554.1385	434.39	Q			V
22+10	8557.1050	430.75	Q			V
22+15	8560.0449	426.87	Q			V

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22+20	8562.9567	422.79	Q				V
22+25	8565.8388	418.49	Q				V
22+30	8568.6900	413.99	Q				V
22+35	8571.5079	409.16	Q				V
22+40	8574.2876	403.62	Q				V
22+45	8577.0282	397.94	Q				V
22+50	8579.7241	391.45	Q				V
22+55	8582.3724	384.53	Q				V
23+ 0	8584.9718	377.43	Q				V
23+ 5	8587.5206	370.09	Q				V
23+10	8590.0159	362.31	Q				V
23+15	8592.4547	354.12	Q				V
23+20	8594.8351	345.64	Q				V
23+25	8597.1529	336.54	Q				V
23+30	8599.4051	327.02	Q				V
23+35	8601.5822	316.12	Q				V
23+40	8603.6695	303.07	Q				V
23+45	8605.6549	288.28	Q				V
23+50	8607.5269	271.82	Q				V
23+55	8609.2734	253.59	Q				V
24+ 0	8610.8728	232.22	Q				V
24+ 5	8612.3704	217.46	Q				V
24+10	8613.8281	211.65	Q				V
24+15	8615.2587	207.73	Q				V
24+20	8616.6641	204.06	Q				V
24+25	8618.0420	200.08	Q				V
24+30	8619.3924	196.07	Q				V
24+35	8620.7129	191.75	Q				V
24+40	8622.0034	187.37	Q				V
24+45	8623.2605	182.54	Q				V
24+50	8624.4812	177.24	Q				V
24+55	8625.6621	171.47	Q				V
25+ 0	8626.8001	165.24	Q				V
25+ 5	8627.8925	158.63	Q				V
25+10	8628.9389	151.93	Q				V
25+15	8629.9359	144.76	Q				V
25+20	8630.8803	137.14	Q				V
25+25	8631.7697	129.13	Q				V
25+30	8632.6033	121.04	Q				V
25+35	8633.3779	112.48	Q				V
25+40	8634.0879	103.09	Q				V
25+45	8634.7172	91.38	Q				V
25+50	8635.2512	77.52	Q				V
25+55	8635.6800	62.27	Q				V
26+ 0	8635.9930	45.44	Q				V
26+ 5	8636.1715	25.93	Q				V
26+10	8636.2153	6.35	Q				V
26+15	8636.2261	1.57	Q				V
26+20	8636.2309	0.69	Q				V
26+25	8636.2337	0.42	Q				V
26+30	8636.2352	0.21	Q				V
26+35	8636.2357	0.08	Q				V

U n i t H y d r o g r a p h A n a l y s i s

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Study date 04/20/17 File: AREAB24100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

TRI-8 Builders - S/N 615

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

MORONGO WASH & MISSION CREEK
EXISTING CONDITION
AREA "B"
100YR-24HR

Drainage Area = 71502.00(Ac.) = 111.722 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 71502.00(Ac.) = 111.722 Sq. Mi.
Length along longest watercourse = 142370.00(Ft.)
Length along longest watercourse measured to centroid = 51555.00(Ft.)
Length along longest watercourse = 26.964 Mi.
Length along longest watercourse measured to centroid = 9.764 Mi.
Difference in elevation = 7936.00(Ft.)
Slope along watercourse = 294.3182 Ft./Mi.
Average Manning's 'N' = 0.039
Lag time = 2.642 Hr.
Lag time = 158.53 Min.
25% of lag time = 39.63 Min.
40% of lag time = 63.41 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
313.00	1.40	438.20
1354.00	1.60	2166.40
8861.00	1.80	15949.80
30826.00	2.00	61652.00
18470.00	2.50	46175.00
8118.00	3.00	24354.00
3560.00	3.50	12460.00

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
774.00	4.50	3483.00
4341.00	5.00	21705.00
19072.00	6.00	114432.00
13608.00	6.50	88452.00
25471.00	7.00	178297.00
6358.00	8.00	50864.00
1878.00	10.00	18780.00

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 2.282(In)
Area Averaged 100-Year Rainfall = 6.657(In)

Point rain (area averaged) = 6.657(In)
Areal adjustment factor = 92.98 %
Adjusted average point rain = 6.190(In)

Sub-Area Data:

AREAB24100

Area(Ac.)	Runoff Index	Impervious %
71502.000	81.52	0.020

Total Area Entered = 71502.00(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
81.5	81.5	0.227	0.020	0.223	1.000	0.223
					Sum (F) =	0.223

Area averaged mean soil loss (F) (In/Hr) = 0.223
Minimum soil loss rate ((In/Hr)) = 0.111
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
DESERT S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	3.154	0.139	100.002
2	0.167	6.308	0.278	200.004
3	0.250	9.462	0.278	200.004
4	0.333	12.616	0.278	200.127
5	0.417	15.770	0.413	297.473
6	0.500	18.924	0.530	381.826
7	0.583	22.078	0.530	381.826
8	0.667	25.232	0.531	382.317
9	0.750	28.386	0.674	485.608
10	0.833	31.540	0.782	563.648
11	0.917	34.694	0.782	563.648
12	1.000	37.848	0.784	564.863
13	1.083	41.002	0.950	684.482
14	1.167	44.156	1.060	763.652
15	1.250	47.310	1.060	763.652
16	1.333	50.464	1.070	771.115
17	1.417	53.618	1.670	1203.202
18	1.500	56.772	2.019	1454.574
19	1.583	59.925	2.019	1454.574
20	1.667	63.079	2.039	1469.304
21	1.750	66.233	2.826	2036.562
22	1.833	69.387	3.230	2327.319
23	1.917	72.541	3.230	2327.319
24	2.000	75.695	3.217	2318.039
25	2.083	78.849	2.861	2061.504
26	2.167	82.003	2.700	1945.493
27	2.250	85.157	2.700	1945.493
28	2.333	88.311	2.677	1929.254
29	2.417	91.465	2.206	1590.001
30	2.500	94.619	2.019	1454.574
31	2.583	97.773	2.019	1454.574
32	2.667	100.927	2.002	1442.790
33	2.750	104.081	1.734	1249.819
34	2.833	107.235	1.640	1181.842
35	2.917	110.389	1.640	1181.842
36	3.000	113.543	1.617	1164.939
37	3.083	116.697	1.307	941.975
38	3.167	119.851	1.211	872.745
39	3.250	123.005	1.211	872.745
40	3.333	126.159	1.196	861.697
41	3.417	129.313	1.029	741.843
42	3.500	132.467	0.984	709.105
43	3.583	135.621	0.984	709.105
44	3.667	138.775	0.972	700.193
45	3.750	141.929	0.860	619.375
46	3.833	145.083	0.833	600.012
47	3.917	148.237	0.833	600.012
48	4.000	151.391	0.825	594.709
49	4.083	154.545	0.769	553.990
50	4.167	157.699	0.757	545.465
51	4.250	160.853	0.757	545.465
52	4.333	164.007	0.743	535.093
53	4.417	167.161	0.648	466.955
54	4.500	170.315	0.631	454.554
55	4.583	173.469	0.631	454.554
56	4.667	176.623	0.621	447.337

57	4.750	179.776	0.564	406.438
58	4.833	182.930	0.555	400.008
59	4.917	186.084	0.555	400.008
60	5.000	189.238	0.551	397.246
61	5.083	192.392	0.532	383.657
62	5.167	195.546	0.530	381.826
63	5.250	198.700	0.530	381.826
64	5.333	201.854	0.510	367.685
65	5.417	205.008	0.426	306.953
66	5.500	208.162	0.416	300.006
67	5.583	211.316	0.416	300.006
68	5.667	214.470	0.416	300.006
69	5.750	217.624	0.416	300.006
70	5.833	220.778	0.416	300.006
71	5.917	223.932	0.416	300.006
72	6.000	227.086	0.400	288.075
73	6.083	230.240	0.345	248.586
74	6.167	233.394	0.341	245.459
75	6.250	236.548	0.341	245.459
76	6.333	239.702	0.341	245.459
77	6.417	242.856	0.341	245.459
78	6.500	246.010	0.341	245.459
79	6.583	249.164	0.341	245.459
80	6.667	252.318	0.330	238.095
81	6.750	255.472	0.304	219.144
82	6.833	258.626	0.303	218.186
83	6.917	261.780	0.303	218.186
84	7.000	264.934	0.303	218.186
85	7.083	268.088	0.303	218.186
86	7.167	271.242	0.303	218.186
87	7.250	274.396	0.303	218.186
88	7.333	277.550	0.286	206.304
89	7.417	280.704	0.253	182.489
90	7.500	283.858	0.252	181.822
91	7.583	287.012	0.252	181.822
92	7.667	290.166	0.252	181.822
93	7.750	293.320	0.252	181.822
94	7.833	296.473	0.252	181.822
95	7.917	299.627	0.252	181.822
96	8.000	302.781	0.228	164.146
97	8.083	305.935	0.190	136.683
98	8.167	309.089	0.189	136.366
99	8.250	312.243	0.189	136.366
100	8.333	315.397	0.189	136.366
101	8.417	318.551	0.189	136.366
102	8.500	321.705	0.189	136.366
103	8.583	324.859	0.189	136.366
104	8.667	328.013	0.183	132.217
105	8.750	331.167	0.177	127.284
106	8.833	334.321	0.177	127.275
107	8.917	337.475	0.177	127.275
108	9.000	340.629	0.177	127.275
109	9.083	343.783	0.177	127.275
110	9.167	346.937	0.177	127.275
111	9.250	350.091	0.177	127.268
112	9.333	353.245	0.163	117.667
113	9.417	356.399	0.151	109.093
114	9.500	359.553	0.151	109.093
115	9.583	362.707	0.151	109.093
116	9.667	365.861	0.151	109.093
117	9.750	369.015	0.151	109.093
118	9.833	372.169	0.151	109.093
119	9.917	375.323	0.151	109.045
120	10.000	378.477	0.144	103.665
121	10.083	381.631	0.139	100.002
122	10.167	384.785	0.139	100.002
123	10.250	387.939	0.139	100.002
124	10.333	391.093	0.139	100.002
125	10.417	394.247	0.139	100.002
126	10.500	397.401	0.139	100.002
127	10.583	400.555	0.138	99.651
128	10.667	403.709	0.118	84.993
129	10.750	406.863	0.107	77.274
130	10.833	410.017	0.107	77.274
131	10.917	413.170	0.107	77.274
132	11.000	416.324	0.107	77.274
133	11.083	419.478	0.107	77.274
134	11.167	422.632	0.107	77.274
135	11.250	425.786	0.107	77.274

136	11.333	428.940	0.107	77.274
137	11.417	432.094	0.107	77.274
138	11.500	435.248	0.107	77.274
139	11.583	438.402	0.107	77.274
140	11.667	441.556	0.107	77.274
141	11.750	444.710	0.107	77.274
142	11.833	447.864	0.107	77.274
143	11.917	451.018	0.106	76.327
144	12.000	454.172	0.088	63.261
145	12.083	457.326	0.082	59.092
146	12.167	460.480	0.082	59.092
147	12.250	463.634	0.082	59.092
148	12.333	466.788	0.082	59.092
149	12.417	469.942	0.082	59.092
150	12.500	473.096	0.082	59.092
151	12.583	476.250	0.082	59.092
152	12.667	479.404	0.082	59.092
153	12.750	482.558	0.082	59.092
154	12.833	485.712	0.082	59.092
155	12.917	488.866	0.082	59.092
156	13.000	492.020	0.082	59.092
157	13.083	495.174	0.082	59.092
158	13.167	498.328	0.082	59.092
159	13.250	501.482	0.079	57.086
160	13.333	504.636	0.060	43.465
161	13.417	507.790	0.057	40.910
162	13.500	510.944	0.057	40.910
163	13.583	514.098	0.057	40.910
164	13.667	517.252	0.057	40.910
165	13.750	520.406	0.057	40.910
166	13.833	523.560	0.057	40.910
167	13.917	526.714	0.057	40.910
168	14.000	529.868	0.057	40.910
169	14.083	533.021	0.057	40.910
170	14.167	536.175	0.057	40.910
171	14.250	539.329	0.057	40.910
172	14.333	542.483	0.057	40.910
173	14.417	545.637	0.057	40.910
174	14.500	548.791	0.057	40.910
175	14.583	551.945	0.052	37.451
176	14.667	555.099	0.033	24.063
177	14.750	558.253	0.032	22.728
178	14.833	561.407	0.032	22.728
179	14.917	564.561	0.032	22.728
180	15.000	567.715	0.032	22.728
181	15.083	570.869	0.032	22.728
182	15.167	574.023	0.032	22.728
183	15.250	577.177	0.032	22.728
184	15.333	580.331	0.032	22.728
185	15.417	583.485	0.032	22.728
186	15.500	586.639	0.032	22.728
187	15.583	589.793	0.032	22.728
188	15.667	592.947	0.032	22.728
189	15.750	596.101	0.032	22.728
190	15.833	599.255	0.032	22.728
191	15.917	602.409	0.033	24.054
192	16.000	605.563	0.038	27.146
193	16.083	608.717	0.038	27.273
194	16.167	611.871	0.038	27.273
195	16.250	615.025	0.038	27.273
196	16.333	618.179	0.038	27.273
197	16.417	621.333	0.038	27.273
198	16.500	624.487	0.038	27.273
199	16.583	627.641	0.038	27.273
200	16.667	630.795	0.038	27.273
201	16.750	633.949	0.038	27.273
202	16.833	637.103	0.038	27.273
203	16.917	640.257	0.038	27.273
204	17.000	643.411	0.038	27.273
205	17.083	646.565	0.038	27.273
206	17.167	649.718	0.038	27.273
207	17.250	652.872	0.038	27.273
208	17.333	656.026	0.038	27.273
209	17.417	659.180	0.038	27.273
210	17.500	662.334	0.038	27.273
211	17.583	665.488	0.038	27.273
212	17.667	668.642	0.038	27.273
213	17.750	671.796	0.038	27.273
214	17.833	674.950	0.038	27.273

215	17.917	678.104	0.038	27.273
216	18.000	681.258	0.038	27.273
217	18.083	684.412	0.038	27.273
218	18.167	687.566	0.038	27.273
219	18.250	690.720	0.038	27.273
220	18.333	693.874	0.038	27.273
221	18.417	697.028	0.038	27.273
222	18.500	700.182	0.038	27.251
223	18.583	703.336	0.028	20.006
224	18.667	706.490	0.020	14.205
225	18.750	709.644	0.020	14.205
226	18.833	712.798	0.020	14.205
227	18.917	715.952	0.020	14.205
228	19.000	719.106	0.020	14.205
229	19.083	722.260	0.020	14.205
230	19.167	725.414	0.020	14.205
231	19.250	728.568	0.020	14.205
232	19.333	731.722	0.020	14.205
233	19.417	734.876	0.020	14.205
234	19.500	738.030	0.020	14.205
235	19.583	741.184	0.020	14.205
236	19.667	744.338	0.020	14.205
237	19.750	747.492	0.020	14.205
238	19.833	750.646	0.020	14.205
239	19.917	753.800	0.020	14.205
240	20.000	756.954	0.020	14.205
241	20.083	760.108	0.020	14.205
242	20.167	763.262	0.020	14.205
243	20.250	766.416	0.020	14.205
244	20.333	769.569	0.020	14.205
245	20.417	772.723	0.020	14.205
246	20.500	775.877	0.020	14.205
247	20.583	779.031	0.020	14.205
248	20.667	782.185	0.016	11.465
		Sum = 100.000	Sum=	72060.609

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.050	0.395	0.045	0.00
2	0.17	0.07	0.050	0.393	0.045	0.00
3	0.25	0.07	0.050	0.392	0.045	0.00
4	0.33	0.10	0.074	0.390	0.067	0.01
5	0.42	0.10	0.074	0.389	0.067	0.01
6	0.50	0.10	0.074	0.387	0.067	0.01
7	0.58	0.10	0.074	0.385	0.067	0.01
8	0.67	0.10	0.074	0.384	0.067	0.01
9	0.75	0.10	0.074	0.382	0.067	0.01
10	0.83	0.13	0.099	0.381	0.089	0.01
11	0.92	0.13	0.099	0.379	0.089	0.01
12	1.00	0.13	0.099	0.378	0.089	0.01
13	1.08	0.10	0.074	0.376	0.067	0.01
14	1.17	0.10	0.074	0.375	0.067	0.01
15	1.25	0.10	0.074	0.373	0.067	0.01
16	1.33	0.10	0.074	0.372	0.067	0.01
17	1.42	0.10	0.074	0.371	0.067	0.01
18	1.50	0.10	0.074	0.369	0.067	0.01
19	1.58	0.10	0.074	0.368	0.067	0.01
20	1.67	0.10	0.074	0.366	0.067	0.01
21	1.75	0.10	0.074	0.365	0.067	0.01
22	1.83	0.13	0.099	0.363	0.089	0.01
23	1.92	0.13	0.099	0.362	0.089	0.01
24	2.00	0.13	0.099	0.360	0.089	0.01
25	2.08	0.13	0.099	0.359	0.089	0.01
26	2.17	0.13	0.099	0.357	0.089	0.01
27	2.25	0.13	0.099	0.356	0.089	0.01
28	2.33	0.13	0.099	0.354	0.089	0.01
29	2.42	0.13	0.099	0.353	0.089	0.01
30	2.50	0.13	0.099	0.352	0.089	0.01
31	2.58	0.17	0.124	0.350	0.111	0.01
32	2.67	0.17	0.124	0.349	0.111	0.01
33	2.75	0.17	0.124	0.347	0.111	0.01
34	2.83	0.17	0.124	0.346	0.111	0.01
35	2.92	0.17	0.124	0.344	0.111	0.01
36	3.00	0.17	0.124	0.343	0.111	0.01
37	3.08	0.17	0.124	0.342	0.111	0.01
38	3.17	0.17	0.124	0.340	0.111	0.01
39	3.25	0.17	0.124	0.339	0.111	0.01

40	3.33	0.17	0.124	0.337	0.111	0.01
41	3.42	0.17	0.124	0.336	0.111	0.01
42	3.50	0.17	0.124	0.334	0.111	0.01
43	3.58	0.17	0.124	0.333	0.111	0.01
44	3.67	0.17	0.124	0.332	0.111	0.01
45	3.75	0.17	0.124	0.330	0.111	0.01
46	3.83	0.20	0.149	0.329	0.134	0.01
47	3.92	0.20	0.149	0.328	0.134	0.01
48	4.00	0.20	0.149	0.326	0.134	0.01
49	4.08	0.20	0.149	0.325	0.134	0.01
50	4.17	0.20	0.149	0.323	0.134	0.01
51	4.25	0.20	0.149	0.322	0.134	0.01
52	4.33	0.23	0.173	0.321	0.156	0.02
53	4.42	0.23	0.173	0.319	0.156	0.02
54	4.50	0.23	0.173	0.318	0.156	0.02
55	4.58	0.23	0.173	0.317	0.156	0.02
56	4.67	0.23	0.173	0.315	0.156	0.02
57	4.75	0.23	0.173	0.314	0.156	0.02
58	4.83	0.27	0.198	0.312	0.178	0.02
59	4.92	0.27	0.198	0.311	0.178	0.02
60	5.00	0.27	0.198	0.310	0.178	0.02
61	5.08	0.20	0.149	0.308	0.134	0.01
62	5.17	0.20	0.149	0.307	0.134	0.01
63	5.25	0.20	0.149	0.306	0.134	0.01
64	5.33	0.23	0.173	0.304	0.156	0.02
65	5.42	0.23	0.173	0.303	0.156	0.02
66	5.50	0.23	0.173	0.302	0.156	0.02
67	5.58	0.27	0.198	0.300	0.178	0.02
68	5.67	0.27	0.198	0.299	0.178	0.02
69	5.75	0.27	0.198	0.298	0.178	0.02
70	5.83	0.27	0.198	0.296	0.178	0.02
71	5.92	0.27	0.198	0.295	0.178	0.02
72	6.00	0.27	0.198	0.294	0.178	0.02
73	6.08	0.30	0.223	0.293	0.201	0.02
74	6.17	0.30	0.223	0.291	0.201	0.02
75	6.25	0.30	0.223	0.290	0.201	0.02
76	6.33	0.30	0.223	0.289	0.201	0.02
77	6.42	0.30	0.223	0.287	0.201	0.02
78	6.50	0.30	0.223	0.286	0.201	0.02
79	6.58	0.33	0.248	0.285	0.223	0.02
80	6.67	0.33	0.248	0.283	0.223	0.02
81	6.75	0.33	0.248	0.282	0.223	0.02
82	6.83	0.33	0.248	0.281	0.223	0.02
83	6.92	0.33	0.248	0.280	0.223	0.02
84	7.00	0.33	0.248	0.278	0.223	0.02
85	7.08	0.33	0.248	0.277	0.223	0.02
86	7.17	0.33	0.248	0.276	0.223	0.02
87	7.25	0.33	0.248	0.275	0.223	0.02
88	7.33	0.37	0.272	0.273	0.245	0.03
89	7.42	0.37	0.272	0.272	---	0.00
90	7.50	0.37	0.272	0.271	---	0.00
91	7.58	0.40	0.297	0.270	---	0.03
92	7.67	0.40	0.297	0.268	---	0.03
93	7.75	0.40	0.297	0.267	---	0.03
94	7.83	0.43	0.322	0.266	---	0.06
95	7.92	0.43	0.322	0.265	---	0.06
96	8.00	0.43	0.322	0.263	---	0.06
97	8.08	0.50	0.371	0.262	---	0.11
98	8.17	0.50	0.371	0.261	---	0.11
99	8.25	0.50	0.371	0.260	---	0.11
100	8.33	0.50	0.371	0.259	---	0.11
101	8.42	0.50	0.371	0.257	---	0.11
102	8.50	0.50	0.371	0.256	---	0.12
103	8.58	0.53	0.396	0.255	---	0.14
104	8.67	0.53	0.396	0.254	---	0.14
105	8.75	0.53	0.396	0.253	---	0.14
106	8.83	0.57	0.421	0.251	---	0.17
107	8.92	0.57	0.421	0.250	---	0.17
108	9.00	0.57	0.421	0.249	---	0.17
109	9.08	0.63	0.470	0.248	---	0.22
110	9.17	0.63	0.470	0.247	---	0.22
111	9.25	0.63	0.470	0.245	---	0.23
112	9.33	0.67	0.495	0.244	---	0.25
113	9.42	0.67	0.495	0.243	---	0.25
114	9.50	0.67	0.495	0.242	---	0.25
115	9.58	0.70	0.520	0.241	---	0.28
116	9.67	0.70	0.520	0.240	---	0.28
117	9.75	0.70	0.520	0.238	---	0.28
118	9.83	0.73	0.545	0.237	---	0.31

119	9.92	0.73	0.545	0.236	---	0.31
120	10.00	0.73	0.545	0.235	---	0.31
121	10.08	0.50	0.371	0.234	---	0.14
122	10.17	0.50	0.371	0.233	---	0.14
123	10.25	0.50	0.371	0.232	---	0.14
124	10.33	0.50	0.371	0.231	---	0.14
125	10.42	0.50	0.371	0.229	---	0.14
126	10.50	0.50	0.371	0.228	---	0.14
127	10.58	0.67	0.495	0.227	---	0.27
128	10.67	0.67	0.495	0.226	---	0.27
129	10.75	0.67	0.495	0.225	---	0.27
130	10.83	0.67	0.495	0.224	---	0.27
131	10.92	0.67	0.495	0.223	---	0.27
132	11.00	0.67	0.495	0.222	---	0.27
133	11.08	0.63	0.470	0.221	---	0.25
134	11.17	0.63	0.470	0.219	---	0.25
135	11.25	0.63	0.470	0.218	---	0.25
136	11.33	0.63	0.470	0.217	---	0.25
137	11.42	0.63	0.470	0.216	---	0.25
138	11.50	0.63	0.470	0.215	---	0.26
139	11.58	0.57	0.421	0.214	---	0.21
140	11.67	0.57	0.421	0.213	---	0.21
141	11.75	0.57	0.421	0.212	---	0.21
142	11.83	0.60	0.446	0.211	---	0.23
143	11.92	0.60	0.446	0.210	---	0.24
144	12.00	0.60	0.446	0.209	---	0.24
145	12.08	0.83	0.619	0.208	---	0.41
146	12.17	0.83	0.619	0.207	---	0.41
147	12.25	0.83	0.619	0.206	---	0.41
148	12.33	0.87	0.644	0.205	---	0.44
149	12.42	0.87	0.644	0.204	---	0.44
150	12.50	0.87	0.644	0.203	---	0.44
151	12.58	0.93	0.693	0.202	---	0.49
152	12.67	0.93	0.693	0.201	---	0.49
153	12.75	0.93	0.693	0.200	---	0.49
154	12.83	0.97	0.718	0.199	---	0.52
155	12.92	0.97	0.718	0.198	---	0.52
156	13.00	0.97	0.718	0.197	---	0.52
157	13.08	1.13	0.842	0.196	---	0.65
158	13.17	1.13	0.842	0.195	---	0.65
159	13.25	1.13	0.842	0.194	---	0.65
160	13.33	1.13	0.842	0.193	---	0.65
161	13.42	1.13	0.842	0.192	---	0.65
162	13.50	1.13	0.842	0.191	---	0.65
163	13.58	0.77	0.569	0.190	---	0.38
164	13.67	0.77	0.569	0.189	---	0.38
165	13.75	0.77	0.569	0.188	---	0.38
166	13.83	0.77	0.569	0.187	---	0.38
167	13.92	0.77	0.569	0.186	---	0.38
168	14.00	0.77	0.569	0.185	---	0.38
169	14.08	0.90	0.669	0.184	---	0.48
170	14.17	0.90	0.669	0.183	---	0.49
171	14.25	0.90	0.669	0.182	---	0.49
172	14.33	0.87	0.644	0.181	---	0.46
173	14.42	0.87	0.644	0.180	---	0.46
174	14.50	0.87	0.644	0.179	---	0.46
175	14.58	0.87	0.644	0.178	---	0.47
176	14.67	0.87	0.644	0.177	---	0.47
177	14.75	0.87	0.644	0.177	---	0.47
178	14.83	0.83	0.619	0.176	---	0.44
179	14.92	0.83	0.619	0.175	---	0.44
180	15.00	0.83	0.619	0.174	---	0.45
181	15.08	0.80	0.594	0.173	---	0.42
182	15.17	0.80	0.594	0.172	---	0.42
183	15.25	0.80	0.594	0.171	---	0.42
184	15.33	0.77	0.569	0.170	---	0.40
185	15.42	0.77	0.569	0.169	---	0.40
186	15.50	0.77	0.569	0.169	---	0.40
187	15.58	0.63	0.470	0.168	---	0.30
188	15.67	0.63	0.470	0.167	---	0.30
189	15.75	0.63	0.470	0.166	---	0.30
190	15.83	0.63	0.470	0.165	---	0.31
191	15.92	0.63	0.470	0.164	---	0.31
192	16.00	0.63	0.470	0.163	---	0.31
193	16.08	0.13	0.099	0.163	0.089	0.01
194	16.17	0.13	0.099	0.162	0.089	0.01
195	16.25	0.13	0.099	0.161	0.089	0.01
196	16.33	0.13	0.099	0.160	0.089	0.01
197	16.42	0.13	0.099	0.159	0.089	0.01

198	16.50	0.13	0.099	0.159	0.089	0.01
199	16.58	0.10	0.074	0.158	0.067	0.01
200	16.67	0.10	0.074	0.157	0.067	0.01
201	16.75	0.10	0.074	0.156	0.067	0.01
202	16.83	0.10	0.074	0.155	0.067	0.01
203	16.92	0.10	0.074	0.155	0.067	0.01
204	17.00	0.10	0.074	0.154	0.067	0.01
205	17.08	0.17	0.124	0.153	0.111	0.01
206	17.17	0.17	0.124	0.152	0.111	0.01
207	17.25	0.17	0.124	0.151	0.111	0.01
208	17.33	0.17	0.124	0.151	0.111	0.01
209	17.42	0.17	0.124	0.150	0.111	0.01
210	17.50	0.17	0.124	0.149	0.111	0.01
211	17.58	0.17	0.124	0.148	0.111	0.01
212	17.67	0.17	0.124	0.148	0.111	0.01
213	17.75	0.17	0.124	0.147	0.111	0.01
214	17.83	0.13	0.099	0.146	0.089	0.01
215	17.92	0.13	0.099	0.146	0.089	0.01
216	18.00	0.13	0.099	0.145	0.089	0.01
217	18.08	0.13	0.099	0.144	0.089	0.01
218	18.17	0.13	0.099	0.143	0.089	0.01
219	18.25	0.13	0.099	0.143	0.089	0.01
220	18.33	0.13	0.099	0.142	0.089	0.01
221	18.42	0.13	0.099	0.141	0.089	0.01
222	18.50	0.13	0.099	0.141	0.089	0.01
223	18.58	0.10	0.074	0.140	0.067	0.01
224	18.67	0.10	0.074	0.139	0.067	0.01
225	18.75	0.10	0.074	0.139	0.067	0.01
226	18.83	0.07	0.050	0.138	0.045	0.00
227	18.92	0.07	0.050	0.137	0.045	0.00
228	19.00	0.07	0.050	0.137	0.045	0.00
229	19.08	0.10	0.074	0.136	0.067	0.01
230	19.17	0.10	0.074	0.135	0.067	0.01
231	19.25	0.10	0.074	0.135	0.067	0.01
232	19.33	0.13	0.099	0.134	0.089	0.01
233	19.42	0.13	0.099	0.133	0.089	0.01
234	19.50	0.13	0.099	0.133	0.089	0.01
235	19.58	0.10	0.074	0.132	0.067	0.01
236	19.67	0.10	0.074	0.132	0.067	0.01
237	19.75	0.10	0.074	0.131	0.067	0.01
238	19.83	0.07	0.050	0.130	0.045	0.00
239	19.92	0.07	0.050	0.130	0.045	0.00
240	20.00	0.07	0.050	0.129	0.045	0.00
241	20.08	0.10	0.074	0.129	0.067	0.01
242	20.17	0.10	0.074	0.128	0.067	0.01
243	20.25	0.10	0.074	0.128	0.067	0.01
244	20.33	0.10	0.074	0.127	0.067	0.01
245	20.42	0.10	0.074	0.126	0.067	0.01
246	20.50	0.10	0.074	0.126	0.067	0.01
247	20.58	0.10	0.074	0.125	0.067	0.01
248	20.67	0.10	0.074	0.125	0.067	0.01
249	20.75	0.10	0.074	0.124	0.067	0.01
250	20.83	0.07	0.050	0.124	0.045	0.00
251	20.92	0.07	0.050	0.123	0.045	0.00
252	21.00	0.07	0.050	0.123	0.045	0.00
253	21.08	0.10	0.074	0.122	0.067	0.01
254	21.17	0.10	0.074	0.122	0.067	0.01
255	21.25	0.10	0.074	0.121	0.067	0.01
256	21.33	0.07	0.050	0.121	0.045	0.00
257	21.42	0.07	0.050	0.120	0.045	0.00
258	21.50	0.07	0.050	0.120	0.045	0.00
259	21.58	0.10	0.074	0.120	0.067	0.01
260	21.67	0.10	0.074	0.119	0.067	0.01
261	21.75	0.10	0.074	0.119	0.067	0.01
262	21.83	0.07	0.050	0.118	0.045	0.00
263	21.92	0.07	0.050	0.118	0.045	0.00
264	22.00	0.07	0.050	0.118	0.045	0.00
265	22.08	0.10	0.074	0.117	0.067	0.01
266	22.17	0.10	0.074	0.117	0.067	0.01
267	22.25	0.10	0.074	0.116	0.067	0.01
268	22.33	0.07	0.050	0.116	0.045	0.00
269	22.42	0.07	0.050	0.116	0.045	0.00
270	22.50	0.07	0.050	0.115	0.045	0.00
271	22.58	0.07	0.050	0.115	0.045	0.00
272	22.67	0.07	0.050	0.115	0.045	0.00
273	22.75	0.07	0.050	0.114	0.045	0.00
274	22.83	0.07	0.050	0.114	0.045	0.00
275	22.92	0.07	0.050	0.114	0.045	0.00
276	23.00	0.07	0.050	0.113	0.045	0.00

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277	23.08	0.07	0.050	0.113	0.045	0.00
278	23.17	0.07	0.050	0.113	0.045	0.00
279	23.25	0.07	0.050	0.113	0.045	0.00
280	23.33	0.07	0.050	0.113	0.045	0.00
281	23.42	0.07	0.050	0.112	0.045	0.00
282	23.50	0.07	0.050	0.112	0.045	0.00
283	23.58	0.07	0.050	0.112	0.045	0.00
284	23.67	0.07	0.050	0.112	0.045	0.00
285	23.75	0.07	0.050	0.112	0.045	0.00
286	23.83	0.07	0.050	0.111	0.045	0.00
287	23.92	0.07	0.050	0.111	0.045	0.00
288	24.00	0.07	0.050	0.111	0.045	0.00
Sum =		100.0			Sum =	34.0

Flood volume = Effective rainfall 2.84(In)
times area 71502.0(Ac.)/[(In)/(Ft.)] = 16899.2(Ac.Ft)
Total soil loss = 3.35(In)
Total soil loss = 19984.967(Ac.Ft)
Total rainfall = 6.19(In)
Flood volume = 736129599.2 Cubic Feet
Total soil loss = 870545160.0 Cubic Feet

Peak flow rate of this hydrograph = 26608.634(CFS)

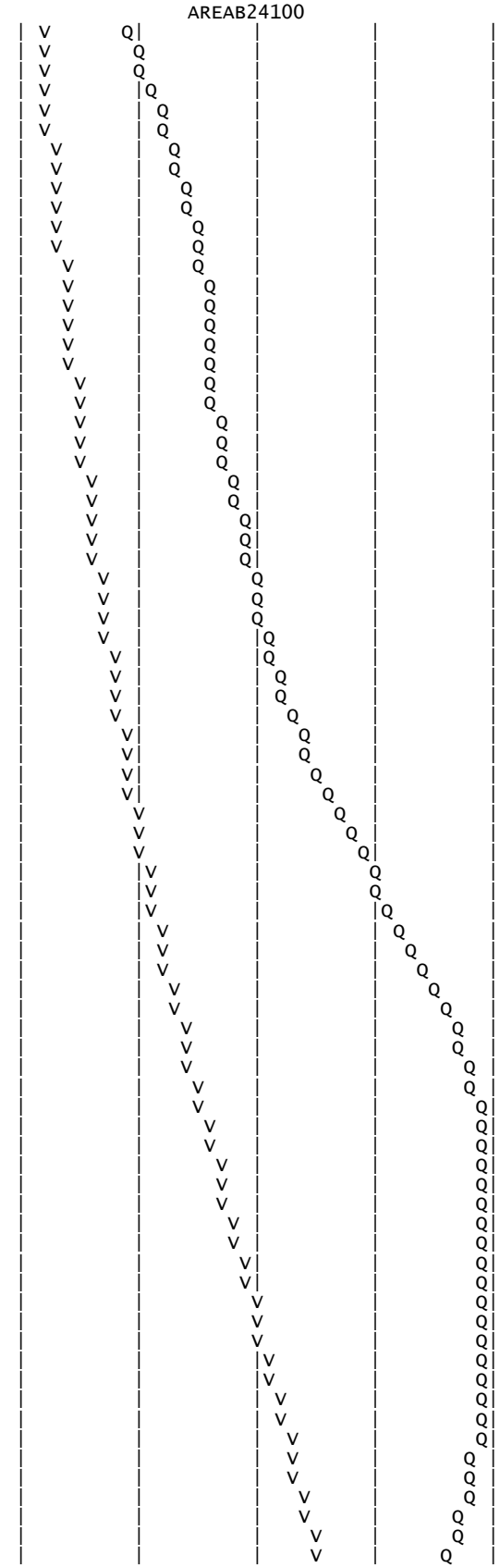
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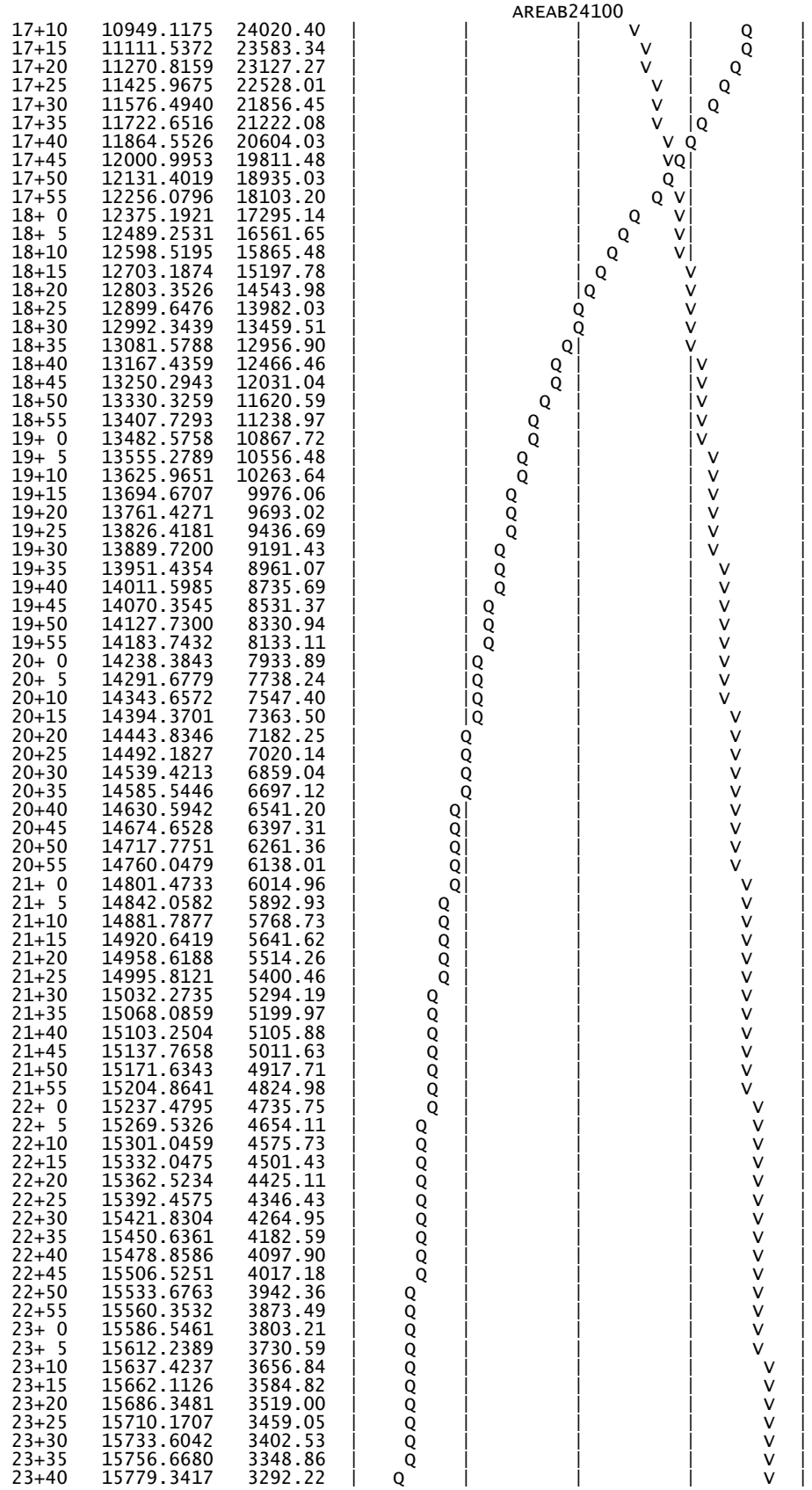
24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	6675.0	13350.0	20025.0	26700.0
0+ 5	0.0034	0.50	Q				
0+10	0.0136	1.49	Q				
0+15	0.0307	2.48	Q				
0+20	0.0563	3.72	Q				
0+25	0.0955	5.69	Q				
0+30	0.1511	8.07	Q				
0+35	0.2231	10.46	Q				
0+40	0.3133	13.09	Q				
0+45	0.4265	16.44	Q				
0+50	0.5672	20.43	Q				
0+55	0.7371	24.67	Q				
1+ 0	0.9380	29.16	Q				
1+ 5	1.1735	34.20	Q				
1+10	1.4464	39.62	Q				
1+15	1.7580	45.25	Q				
1+20	2.1108	51.22	Q				
1+25	2.5191	59.28	Q				
1+30	2.9918	68.64	Q				
1+35	3.5304	78.21	Q				
1+40	4.1428	88.92	Q				
1+45	4.8508	102.81	Q				
1+50	5.6669	118.49	Q				
1+55	6.5942	134.65	Q				
2+ 0	7.6422	152.17	Q				
2+ 5	8.8052	168.86	Q				
2+10	10.0868	186.09	Q				
2+15	11.4927	204.13	Q				
2+20	13.0177	221.44	Q				
2+25	14.6413	235.74	Q				
2+30	16.3659	250.41	Q				
2+35	18.1992	266.20	Q				
2+40	20.1366	281.31	Q				
2+45	22.1593	293.70	Q				
2+50	24.2577	304.69	Q				
2+55	26.4327	315.80	Q				
3+ 0	28.6819	326.58	Q				
3+ 5	31.0008	336.71	Q				
3+10	33.3906	347.01	Q				
3+15	35.8549	357.81	Q				
3+20	38.3909	368.24	Q				
3+25	40.9994	378.74	Q				
3+30	43.6878	390.36	Q				
3+35	46.4618	402.79	Q				
3+40	49.3207	415.11	Q				
3+45	52.2640	427.36	Q				
3+50	55.2857	438.76	Q				
3+55	58.3918	451.00	Q				

4+ 0	61.5851	463.67	Q				
4+ 5	64.8673	476.58	Q				
4+10	68.2335	488.76	Q				
4+15	71.6917	502.13	Q				
4+20	75.2477	516.34	Q				
4+25	78.9026	530.68	Q				
4+30	82.6533	544.60	Q				
4+35	86.4951	557.84	Q				
4+40	90.4265	570.84	Q				
4+45	94.4484	583.97	Q				
4+50	98.5597	596.97	Q				
4+55	102.7564	609.36	Q				
5+ 0	107.0372	621.57	Q				
5+ 5	111.3998	633.46	Q				
5+10	115.8466	645.68	Q				
5+15	120.3793	658.14	Q				
5+20	124.9998	670.90	VQ				
5+25	129.7070	683.48	VQ				
5+30	134.5070	696.96	VQ				
5+35	139.4035	710.97	VQ				
5+40	144.4050	726.22	VQ				
5+45	149.5141	741.85	VQ				
5+50	154.7249	756.60	VQ				
5+55	160.0363	771.22	VQ				
6+ 0	165.4603	787.56	VQ				
6+ 5	170.9991	804.23	VQ				
6+10	176.6509	820.64	VQ				
6+15	182.4173	837.29	VQ				
6+20	188.2965	853.65	VQ				
6+25	194.2755	868.15	VQ				
6+30	200.3529	882.45	VQ				
6+35	206.5354	897.70	VQ				
6+40	212.8267	913.50	VQ				
6+45	219.2098	926.83	VQ				
6+50	225.6671	937.59	VQ				
6+55	232.2029	949.01	VQ				
7+ 0	238.8295	962.18	VQ				
7+ 5	245.5614	977.47	VQ				
7+10	252.3952	992.27	VQ				
7+15	259.3383	1008.13	VQ				
7+20	266.3906	1023.99	VQ				
7+25	273.5497	1039.51	VQ				
7+30	280.8017	1052.99	VQ				
7+35	288.1606	1068.51	VQ				
7+40	295.6386	1085.81	VQ				
7+45	303.2340	1102.85	VQ				
7+50	310.9524	1120.72	VQ				
7+55	318.8296	1143.77	VQ				
8+ 0	326.8820	1169.20	VQ				
8+ 5	335.1292	1197.50	VQ				
8+10	343.6085	1231.20	VQ				
8+15	352.3618	1270.97	VQ				
8+20	361.4080	1313.51	VQ				
8+25	370.7613	1358.10	V Q				
8+30	380.4552	1407.56	V Q				
8+35	390.5374	1463.93	V Q				
8+40	401.0445	1525.64	V Q				
8+45	411.9407	1582.12	V Q				
8+50	423.2523	1642.45	|VQ				
8+55	435.1045	1720.94	|VQ				
9+ 0	447.5694	1809.90	|VQ				
9+ 5	460.6322	1896.71	|VQ				
9+10	474.4060	1999.96	|VQ				
9+15	489.0767	2130.18	|V Q				
9+20	504.7410	2274.47	|V Q				
9+25	521.6642	2457.25	|V Q				
9+30	540.1113	2678.51	|V Q				
9+35	560.1494	2909.54	|V Q				
9+40	581.8212	3146.74	|V Q				
9+45	605.4441	3430.05	|V Q				
9+50	631.1724	3735.75	|V Q				
9+55	659.0571	4048.85	|V Q				
10+ 0	689.1561	4370.38	|V Q				
10+ 5	721.3605	4676.08	|V Q				
10+10	755.5923	4970.46	|V Q				
10+15	791.9739	5282.60	|V Q				
10+20	830.5813	5605.80	|V Q				
10+25	871.3942	5926.04	| V Q				
10+30	914.4478	6251.38	| V Q				

10+35	959.8233	6588.51	
10+40	1007.6665	6946.83	
10+45	1058.0471	7315.27	
10+50	1110.8935	7673.29	
10+55	1166.2706	8040.75	
11+ 0	1224.3558	8433.98	
11+ 5	1284.8924	8789.90	
11+10	1347.7072	9120.71	
11+15	1412.9540	9473.83	
11+20	1480.6752	9833.12	
11+25	1550.1706	10090.73	
11+30	1621.1182	10301.59	
11+35	1693.5313	10514.37	
11+40	1767.3317	10715.82	
11+45	1841.7186	10800.98	
11+50	1916.2339	10819.62	
11+55	1991.1062	10871.46	
12+ 0	2066.4628	10941.78	
12+ 5	2142.6101	11056.59	
12+10	2219.7031	11193.90	
12+15	2298.1186	11385.93	
12+20	2378.0542	11606.65	
12+25	2459.8990	11883.87	
12+30	2543.8103	12183.92	
12+35	2629.5114	12443.80	
12+40	2716.9024	12689.18	
12+45	2806.2157	12968.29	
12+50	2897.5367	13259.81	
12+55	2990.4355	13488.90	
13+ 0	3084.7568	13695.45	
13+ 5	3181.0275	13978.50	
13+10	3279.5571	14306.50	
13+15	3380.0498	14591.53	
13+20	3482.4019	14861.54	
13+25	3587.3893	15244.17	
13+30	3695.5198	15700.55	
13+35	3806.5856	16126.76	
13+40	3920.4951	16539.65	
13+45	4038.1655	17085.76	
13+50	4159.9985	17690.15	
13+55	4285.9429	18287.12	
14+ 0	4416.0261	18888.09	
14+ 5	4550.2266	19485.91	
14+10	4688.5539	20085.12	
14+15	4831.0089	20684.47	
14+20	4977.4840	21268.17	
14+25	5128.0510	21862.34	
14+30	5282.8849	22481.88	
14+35	5441.7366	23065.27	
14+40	5604.3563	23612.38	
14+45	5771.0828	24208.68	
14+50	5942.0094	24818.55	
14+55	6116.1255	25281.65	
15+ 0	6292.8344	25658.14	
15+ 5	6471.6911	25969.98	
15+10	6652.4076	26240.04	
15+15	6833.7927	26337.12	
15+20	7015.1913	26339.07	
15+25	7196.4814	26323.32	
15+30	7377.6133	26300.35	
15+35	7558.8829	26320.34	
15+40	7740.2940	26340.90	
15+45	7921.8831	26366.73	
15+50	8103.6930	26398.79	
15+55	8286.1865	26498.06	
16+ 0	8469.3971	26602.19	
16+ 5	8652.6522	26608.63	
16+10	8835.4962	26548.94	
16+15	9018.1505	26521.42	
16+20	9200.6634	26500.86	
16+25	9382.3436	26379.97	
16+30	9562.7335	26192.62	
16+35	9742.0609	26038.34	
16+40	9920.3416	25886.35	
16+45	10097.0114	25652.46	
16+50	10271.8305	25383.73	
16+55	10444.7312	25105.19	
17+ 0	10615.5012	24795.80	
17+ 5	10783.6877	24420.69	



17+10	10949.1175	24020.40	
17+15	11111.5372	23583.34	
17+20	11270.8159	23127.27	
17+25	11425.9675	22528.01	
17+30	11576.4940	21856.45	
17+35	11722.6516	21222.08	
17+40	11864.5526	20604.03	
17+45	12000.9953	19811.48	
17+50	12131.4019	18935.03	
17+55	12256.0796	18103.20	
18+ 0	12375.1921	17295.14	
18+ 5	12489.2531	16561.65	
18+10	12598.5195	15865.48	
18+15	12703.1874	15197.78	
18+20	12803.3526	14543.98	
18+25	12899.6476	13982.03	
18+30	12992.3439	13459.51	
18+35	13081.5788	12956.90	
18+40	13167.4359	12466.46	
18+45	13250.2943	12031.04	
18+50	13330.3259	11620.59	
18+55	13407.7293	11238.97	
19+ 0	13482.5758	10867.72	
19+ 5	13555.2789	10556.48	
19+10	13625.9651	10263.64	
19+15	13694.6707	9976.06	
19+20	13761.4271	9693.02	
19+25	13826.4181	9436.69	
19+30	13889.7200	9191.43	
19+35	13951.4354	8961.07	
19+40	14011.5985	8735.69	
19+45	14070.3545	8531.37	
19+50	14127.7300	8330.94	
19+55	14183.7432	8133.11	
20+ 0	14238.3843	7933.89	
20+ 5	14291.6779	7738.24	
20+10	14343.6572	7547.40	
20+15	14394.3701	7363.50	
20+20	14443.8346	7182.25	
20+25	14492.1827	7020.14	
20+30	14539.4213	6859.04	
20+35	14585.5446	6697.12	
20+40	14630.5942	6541.20	
20+45	14674.6528	6397.31	
20+50	14717.7751	6261.36	
20+55	14760.0479	6138.01	
21+ 0	14801.4733	6014.96	
21+ 5	14842.0582	5892.93	
21+10	14881.7877	5768.73	
21+15	14920.6419	5641.62	
21+20	14958.6188	5514.26	
21+25	14995.8121	5400.46	
21+30	15032.2735	5294.19	
21+35	15068.0859	5199.97	
21+40	15103.2504	5105.88	
21+45	15137.7658	5011.63	
21+50	15171.6343	4917.71	
21+55	15204.8641	4824.98	
22+ 0	15237.4795	4735.75	
22+ 5	15269.5326	4654.11	
22+10	15301.0459	4575.73	
22+15	15332.0475	4501.43	
22+20	15362.5234	4425.11	
22+25	15392.4575	4346.43	
22+30	15421.8304	4264.95	
22+35	15450.6361	4182.59	
22+40	15478.8586	4097.90	
22+45	15506.5251	4017.18	
22+50	15533.6763	3942.36	
22+55	15560.3532	3873.49	
23+ 0	15586.5461	3803.21	
23+ 5	15612.2389	3730.59	
23+10	15637.4237	3656.84	
23+15	15662.1126	3584.82	
23+20	15686.3481	3519.00	
23+25	15710.1707	3459.05	
23+30	15733.6042	3402.53	
23+35	15756.6680	3348.86	
23+40	15779.3417	3292.22	

23+45	15801.6168	3234.36	Q			V
23+50	15823.4929	3176.41	Q			V
23+55	15844.9643	3117.65	Q			V
24+ 0	15866.0391	3060.05	Q			V
24+ 5	15886.7512	3007.41	Q			V
24+10	15907.1332	2959.46	Q			V
24+15	15927.2019	2913.97	Q			V
24+20	15946.9654	2869.66	Q			V
24+25	15966.4120	2823.65	Q			V
24+30	15985.5366	2776.89	Q			V
24+35	16004.3418	2730.51	Q			V
24+40	16022.8479	2687.09	Q			V
24+45	16041.0552	2643.70	Q			V
24+50	16058.9754	2602.01	Q			V
24+55	16076.6173	2561.61	Q			V
25+ 0	16093.9749	2520.33	Q			V
25+ 5	16111.0312	2476.56	Q			V
25+10	16127.7742	2431.09	Q			V
25+15	16144.2014	2385.23	Q			V
25+20	16160.3188	2340.26	Q			V
25+25	16176.1277	2295.45	Q			V
25+30	16191.6500	2253.84	Q			V
25+35	16206.8947	2213.53	Q			V
25+40	16221.8679	2174.11	Q			V
25+45	16236.5504	2131.90	Q			V
25+50	16250.9288	2087.74	Q			V
25+55	16265.0031	2043.58	Q			V
26+ 0	16278.7744	1999.60	Q			V
26+ 5	16292.2528	1957.06	Q			V
26+10	16305.4573	1917.29	Q			V
26+15	16318.3934	1878.32	Q			V
26+20	16331.0482	1837.48	Q			V
26+25	16343.4260	1797.26	Q			V
26+30	16355.5344	1758.14	Q			V
26+35	16367.3676	1718.19	Q			V
26+40	16378.9393	1680.21	Q			V
26+45	16390.2754	1646.01	Q			V
26+50	16401.4048	1615.98	Q			V
26+55	16412.3289	1586.19	Q			V
27+ 0	16423.0493	1556.60	Q			V
27+ 5	16433.5707	1527.70	Q			V
27+10	16443.8913	1498.55	Q			V
27+15	16454.0112	1469.41	Q			V
27+20	16463.9200	1438.75	Q			V
27+25	16473.6153	1407.76	Q			V
27+30	16483.1061	1378.07	Q			V
27+35	16492.3919	1348.29	Q			V
27+40	16501.4599	1316.68	Q			V
27+45	16510.3121	1285.33	Q			V
27+50	16518.9487	1254.04	Q			V
27+55	16527.3721	1223.08	Q			V
28+ 0	16535.6130	1196.58	Q			V
28+ 5	16543.6901	1172.79	Q			V
28+10	16551.6279	1152.58	Q			V
28+15	16559.4276	1132.51	Q			V
28+20	16567.0903	1112.63	Q			V
28+25	16574.6175	1092.94	Q			V
28+30	16582.0094	1073.30	Q			V
28+35	16589.2744	1054.88	Q			V
28+40	16596.4099	1036.08	Q			V
28+45	16603.4141	1017.01	Q			V
28+50	16610.2971	999.41	Q			V
28+55	16617.0634	982.47	Q			V
29+ 0	16623.7152	965.83	Q			V
29+ 5	16630.2460	948.27	Q			V
29+10	16636.6509	929.99	Q			V
29+15	16642.9320	912.02	Q			V
29+20	16649.1181	898.21	Q			V
29+25	16655.2151	885.29	Q			V
29+30	16661.2156	871.27	Q			V
29+35	16667.1206	857.40	Q			V
29+40	16672.9322	843.85	Q			V
29+45	16678.6470	829.78	Q			V
29+50	16684.2659	815.87	Q			V
29+55	16689.7914	802.30	Q			V
30+ 0	16695.2235	788.74	Q			V
30+ 5	16700.5679	776.00	Q			V
30+10	16705.8350	764.78	Q			V
30+15	16711.0232	753.34	Q			V

30+20	16716.1310	741.65	|Q	|	|	|	V|
30+25	16721.1567	729.72	|Q	|	|	|	V|
30+30	16726.0984	717.53	|Q	|	|	|	V|
30+35	16730.9545	705.11	|Q	|	|	|	V|
30+40	16735.7485	696.09	|Q	|	|	|	V|
30+45	16740.4968	689.45	|Q	|	|	|	V|
30+50	16745.1980	682.61	|Q	|	|	|	V|
30+55	16749.8506	675.56	|Q	|	|	|	V|
31+ 0	16754.4537	668.37	|Q	|	|	|	V|
31+ 5	16759.0050	660.85	Q	|	|	|	V|
31+10	16763.5001	652.69	Q	|	|	|	V|
31+15	16767.9285	643.00	Q	|	|	|	V|
31+20	16772.2889	633.14	Q	|	|	|	V|
31+25	16776.5803	623.11	Q	|	|	|	V|
31+30	16780.8005	612.78	Q	|	|	|	V|
31+35	16784.9433	601.53	Q	|	|	|	V|
31+40	16789.0035	589.53	Q	|	|	|	V|
31+45	16792.9829	577.81	Q	|	|	|	V|
31+50	16796.8818	566.12	Q	|	|	|	V|
31+55	16800.6976	554.05	Q	|	|	|	V|
32+ 0	16804.4242	541.11	Q	|	|	|	V|
32+ 5	16808.0759	530.22	Q	|	|	|	V|
32+10	16811.6640	520.99	Q	|	|	|	V|
32+15	16815.1922	512.30	Q	|	|	|	V|
32+20	16818.6602	503.56	Q	|	|	|	V|
32+25	16822.0678	494.78	Q	|	|	|	V|
32+30	16825.4129	485.70	Q	|	|	|	V|
32+35	16828.6900	475.84	Q	|	|	|	V|
32+40	16831.8917	464.89	Q	|	|	|	V|
32+45	16835.0044	451.96	Q	|	|	|	V|
32+50	16838.0294	439.23	Q	|	|	|	V|
32+55	16840.9674	426.60	Q	|	|	|	V|
33+ 0	16843.8163	413.66	Q	|	|	|	V|
33+ 5	16846.5761	400.72	Q	|	|	|	V|
33+10	16849.2460	387.67	Q	|	|	|	V|
33+15	16851.8221	374.05	Q	|	|	|	V|
33+20	16854.3058	360.62	Q	|	|	|	V|
33+25	16856.6977	347.31	Q	|	|	|	V|
33+30	16858.9956	333.66	Q	|	|	|	V|
33+35	16861.2005	320.14	Q	|	|	|	V|
33+40	16863.3105	306.37	Q	|	|	|	V|
33+45	16865.3158	291.17	Q	|	|	|	V|
33+50	16867.2175	276.13	Q	|	|	|	V|
33+55	16869.0162	261.17	Q	|	|	|	V|
34+ 0	16870.7117	246.19	Q	|	|	|	V|
34+ 5	16872.3091	231.94	Q	|	|	|	V|
34+10	16873.8176	219.04	Q	|	|	|	V|
34+15	16875.2588	209.26	Q	|	|	|	V|
34+20	16876.6324	199.45	Q	|	|	|	V|
34+25	16877.9384	189.63	Q	|	|	|	V|
34+30	16879.1767	179.80	Q	|	|	|	V|
34+35	16880.3622	172.13	Q	|	|	|	V|
34+40	16881.5050	165.94	Q	|	|	|	V|
34+45	16882.5975	158.62	Q	|	|	|	V|
34+50	16883.6392	151.26	Q	|	|	|	V|
34+55	16884.6306	143.95	Q	|	|	|	V|
35+ 0	16885.5735	136.92	Q	|	|	|	V|
35+ 5	16886.4683	129.93	Q	|	|	|	V|
35+10	16887.3151	122.95	Q	|	|	|	V|
35+15	16888.1137	115.96	Q	|	|	|	V|
35+20	16888.8639	108.93	Q	|	|	|	V|
35+25	16889.5663	101.98	Q	|	|	|	V|
35+30	16890.2226	95.31	Q	|	|	|	V|
35+35	16890.8329	88.60	Q	|	|	|	V|
35+40	16891.3969	81.90	Q	|	|	|	V|
35+45	16891.9166	75.46	Q	|	|	|	V|
35+50	16892.3918	69.01	Q	|	|	|	V|
35+55	16892.8233	62.65	Q	|	|	|	V|
36+ 0	16893.2135	56.65	Q	|	|	|	V|
36+ 5	16893.5623	50.64	Q	|	|	|	V|
36+10	16893.8713	44.87	Q	|	|	|	V|
36+15	16894.1482	40.21	Q	|	|	|	V|
36+20	16894.3931	35.56	Q	|	|	|	V|
36+25	16894.6063	30.96	Q	|	|	|	V|
36+30	16894.7877	26.34	Q	|	|	|	V|
36+35	16894.9371	21.70	Q	|	|	|	V|
36+40	16895.0599	17.83	Q	|	|	|	V|
36+45	16895.1795	17.36	Q	|	|	|	V|
36+50	16895.2958	16.89	Q	|	|	|	V|

36+55	16895.4092	16.47	Q	|	|	|	V|
37+ 0	16895.5197	16.05	Q	|	|	|	V|
37+ 5	16895.6275	15.65	Q	|	|	|	V|
37+10	16895.7327	15.27	Q	|	|	|	V|
37+15	16895.8354	14.92	Q	|	|	|	V|
37+20	16895.9364	14.65	Q	|	|	|	V|
37+25	16896.0357	14.42	Q	|	|	|	V|
37+30	16896.1334	14.19	Q	|	|	|	V|
37+35	16896.2295	13.95	Q	|	|	|	V|
37+40	16896.3236	13.67	Q	|	|	|	V|
37+45	16896.4154	13.33	Q	|	|	|	V|
37+50	16896.5048	12.97	Q	|	|	|	V|
37+55	16896.5916	12.60	Q	|	|	|	V|
38+ 0	16896.6759	12.24	Q	|	|	|	V|
38+ 5	16896.7578	11.90	Q	|	|	|	V|
38+10	16896.8375	11.56	Q	|	|	|	V|
38+15	16896.9148	11.22	Q	|	|	|	V|
38+20	16896.9899	10.90	Q	|	|	|	V|
38+25	16897.0629	10.60	Q	|	|	|	V|
38+30	16897.1340	10.33	Q	|	|	|	V|
38+35	16897.2032	10.05	Q	|	|	|	V|
38+40	16897.2709	9.83	Q	|	|	|	V|
38+45	16897.3372	9.62	Q	|	|	|	V|
38+50	16897.4019	9.40	Q	|	|	|	V|
38+55	16897.4652	9.19	Q	|	|	|	V|
39+ 0	16897.5270	8.97	Q	|	|	|	V|
39+ 5	16897.5872	8.75	Q	|	|	|	V|
39+10	16897.6461	8.55	Q	|	|	|	V|
39+15	16897.7037	8.37	Q	|	|	|	V|
39+20	16897.7602	8.20	Q	|	|	|	V|
39+25	16897.8157	8.06	Q	|	|	|	V|
39+30	16897.8705	7.95	Q	|	|	|	V|
39+35	16897.9244	7.82	Q	|	|	|	V|
39+40	16897.9772	7.67	Q	|	|	|	V|
39+45	16898.0287	7.49	Q	|	|	|	V|
39+50	16898.0792	7.33	Q	|	|	|	V|
39+55	16898.1285	7.16	Q	|	|	|	V|
40+ 0	16898.1764	6.96	Q	|	|	|	V|
40+ 5	16898.2228	6.74	Q	|	|	|	V|
40+10	16898.2676	6.50	Q	|	|	|	V|
40+15	16898.3110	6.30	Q	|	|	|	V|
40+20	16898.3532	6.12	Q	|	|	|	V|
40+25	16898.3942	5.95	Q	|	|	|	V|
40+30	16898.4342	5.82	Q	|	|	|	V|
40+35	16898.4733	5.67	Q	|	|	|	V|
40+40	16898.5111	5.49	Q	|	|	|	V|
40+45	16898.5475	5.29	Q	|	|	|	V|
40+50	16898.5827	5.10	Q	|	|	|	V|
40+55	16898.6166	4.93	Q	|	|	|	V|
41+ 0	16898.6494	4.76	Q	|	|	|	V|
41+ 5	16898.6811	4.59	Q	|	|	|	V|
41+10	16898.7115	4.42	Q	|	|	|	V|
41+15	16898.7408	4.25	Q	|	|	|	V|
41+20	16898.7689	4.08	Q	|	|	|	V|
41+25	16898.7959	3.92	Q	|	|	|	V|
41+30	16898.8220	3.78	Q	|	|	|	V|
41+35	16898.8471	3.65	Q	|	|	|	V|
41+40	16898.8712	3.51	Q	|	|	|	V|
41+45	16898.8942	3.34	Q	|	|	|	V|
41+50	16898.9160	3.17	Q	|	|	|	V|
41+55	16898.9367	3.00	Q	|	|	|	V|
42+ 0	16898.9564	2.87	Q	|	|	|	V|
42+ 5	16898.9752	2.73	Q	|	|	|	V|
42+10	16898.9931	2.59	Q	|	|	|	V|
42+15	16899.0097	2.42	Q	|	|	|	V|
42+20	16899.0252	2.25	Q	|	|	|	V|
42+25	16899.0396	2.09	Q	|	|	|	V|
42+30	16899.0530	1.95	Q	|	|	|	V|
42+35	16899.0658	1.85	Q	|	|	|	V|
42+40	16899.0780	1.77	Q	|	|	|	V|
42+45	16899.0895	1.67	Q	|	|	|	V|
42+50	16899.1003	1.56	Q	|	|	|	V|
42+55	16899.1103	1.46	Q	|	|	|	V|
43+ 0	16899.1199	1.39	Q	|	|	|	V|
43+ 5	16899.1291	1.32	Q	|	|	|	V|
43+10	16899.1377	1.25	Q	|	|	|	V|
43+15	16899.1458	1.18	Q	|	|	|	V|
43+20	16899.1535	1.11	Q	|	|	|	V|
43+25	16899.1607	1.04	Q	|	|	|	V|

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43+30	16899.1674	0.97	Q	|	|	V|
43+35	16899.1736	0.90	Q	|	|	V|
43+40	16899.1793	0.83	Q	|	|	V|
43+45	16899.1845	0.76	Q	|	|	V|
43+50	16899.1893	0.69	Q	|	|	V|
43+55	16899.1936	0.62	Q	|	|	V|
44+ 0	16899.1973	0.55	Q	|	|	V|
44+ 5	16899.2006	0.48	Q	|	|	V|
44+10	16899.2035	0.41	Q	|	|	V|
44+15	16899.2058	0.34	Q	|	|	V|
44+20	16899.2076	0.27	Q	|	|	V|
44+25	16899.2090	0.20	Q	|	|	V|
44+30	16899.2099	0.13	Q	|	|	V|
44+35	16899.2103	0.06	Q	|	|	V

APPENDIX F: HYDRAULIC ANALYSIS FOR PROPOSED DRAINAGE FACILITIES BASED ON NORMAL-DEPTH METHOD

CB #1 & #2
Worksheet for Curb Inlet On Grade

Project Description	
Worksheet	CB #1 & #2 (ON G
Type	Curb Inlet On Grad
Solve For	Length

Input Data		
Discharge	11.40	cfs
Efficiency	1.00	
Slope	.0177	ft/ft
Gutter Width	1.50	ft
Gutter Cross Slope	.0800	ft/ft
Road Cross Slope	0.0200	ft/ft
Mannings Coefficie	0.015	
Local Depression	4.0	in
Local Depression W	4.00	ft

Results		
Curb Opening Length	36.92	ft
Intercepted Flow	11.40	cfs
Bypass Flow	0.00	cfs
Spread	15.39	ft
Depth	0.40	ft
Flow Area	2.4	ft²
Gutter Depression	1.1	in
Total Depression	5.1	in
Velocity	4.68	ft/s
Equivalent Cross Slop	.0503	ft/ft
Length Factor	0.99	
Total Interception Len	37.14	ft

CB #3 & #4
Worksheet for Curb Inlet On Grade

Project Description	
Worksheet	CB #3 & #4 (ON G
Type	Curb Inlet On Grad
Solve For	Length

Input Data		
Discharge	17.80	cfs
Efficiency	1.00	
Slope	.0177	ft/ft
Gutter Width	1.50	ft
Gutter Cross Slope	.0800	ft/ft
Road Cross Slope	0.0200	ft/ft
Mannings Coefficie	0.015	
Local Depression	4.0	in
Local Depression W	4.00	ft

Results		
Curb Opening Length	47.41	ft
Intercepted Flow	17.80	cfs
Bypass Flow	0.00	cfs
Spread	18.32	ft
Depth	0.46	ft
Flow Area	3.4	ft²
Gutter Depression	1.1	in
Total Depression	5.1	in
Velocity	5.20	ft/s
Equivalent Cross Slop	.0453	ft/ft
Length Factor	0.99	
Total Interception Len	47.69	ft

CB #5
Worksheet for Curb Inlet In Sag

Project Description	
Worksheet	CB #5 (SUMP)
Type	Curb Inlet In Sa
Solve For	Spread

Input Data		
Discharge	6.6	cfs
Gutter Width	0.0	ft
Gutter Cross Slope	0.0000	ft/ft
Road Cross Slope	0.0100	ft/ft
Curb Opening Leng	4.0	ft
Opening Height	0.72	ft
Curb Throat Type	orizontal	
Local Depression	4.0	in
Local Depression W	4.0	ft

Results		
Spread	40.3	ft
Throat Incline Ang	90.0	degree
Depth	0.40	ft
Gutter Depressio	0.0	in
Total Depression	4.0	in

CB #6
Worksheet for Curb Inlet In Sag

Project Description	
Worksheet	CB #6 (SUMP)
Type	Curb Inlet In Sa
Solve For	Spread

Input Data		
Discharge	3.7	cfs
Gutter Width	0.0	ft
Gutter Cross Slope	0.0000	ft/ft
Road Cross Slope	0.0100	ft/ft
Curb Opening Leng	4.0	ft
Opening Height	0.72	ft
Curb Throat Type	orizontal	
Local Depression	4.0	in
Local Depression W	4.0	ft

Results		
Spread	27.4	ft
Throat Incline An	90.0	degree
Depth	0.27	ft
Gutter Depressio	0.0	in
Total Depression	4.0	in

CB #7
Worksheet for Curb Inlet In Sag

Project Description	
Worksheet	CB #7 (SUMP)
Type	Curb Inlet In Sa
Solve For	Spread

Input Data		
Discharge	13.4	cfs
Gutter Width	1.5	ft
Gutter Cross Slope	0.0800	ft/ft
Road Cross Slope	0.0200	ft/ft
Curb Opening Leng	14.0	ft
Opening Height	0.72	ft
Curb Throat Type	orizontal	
Local Depression	4.0	in
Local Depression W	4.0	ft

Results		
Spread	21.1	ft
Throat Incline An	90.0	degree
Depth	0.51	ft
Gutter Depressio	1.1	in
Total Depression	5.1	in

CB #8
Worksheet for Curb Inlet In Sag

Project Description	
Worksheet	CB #8 (SUMP)
Type	Curb Inlet In Sa
Solve For	Spread

Input Data		
Discharge	3.0	cfs
Gutter Width	1.5	ft
Gutter Cross Slope	0.0800	ft/ft
Road Cross Slope	0.0200	ft/ft
Curb Opening Leng	4.0	ft
Opening Height	0.72	ft
Curb Throat Type	orizontal	
Local Depression	4.0	in
Local Depression W	4.0	ft

Results		
Spread	11.9	ft
Throat Incline An	90.0	degree
Depth	0.33	ft
Gutter Depressio	1.1	in
Total Depression	5.1	in

CB #9
Worksheet for Curb Inlet In Sag

Project Description	
Worksheet	CB #9 (SUMP)
Type	Curb Inlet In Sa
Solve For	Spread

Input Data		
Discharge	6.5	cfs
Gutter Width	0.0	ft
Gutter Cross Slope	0.0000	ft/ft
Road Cross Slope	0.0100	ft/ft
Curb Opening Leng	4.0	ft
Opening Height	0.72	ft
Curb Throat Type	orizontal	
Local Depression	4.0	in
Local Depression W	4.0	ft

Results		
Spread	39.9	ft
Throat Incline An	90.0	degree
Depth	0.40	ft
Gutter Depressio	0.0	in
Total Depression	4.0	in

CB #10
Worksheet for Curb Inlet In Sag

Project Description	
Worksheet	CB #10 (SUMP
Type	Curb Inlet In Sa
Solve For	Spread

Input Data		
Discharge	3.5	cfs
Gutter Width	0.0	ft
Gutter Cross Slope	0.0000	ft/ft
Road Cross Slope	0.0100	ft/ft
Curb Opening Leng	4.0	ft
Opening Height	0.72	ft
Curb Throat Type	orizontal	
Local Depression	4.0	in
Local Depression W	4.0	ft

Results		
Spread	26.4	ft
Throat Incline An	90.0	degree
Depth	0.26	ft
Gutter Depressio	0.0	in
Total Depression	4.0	in

CB #11
Worksheet for Curb Inlet In Sag

Project Description	
Worksheet	CB #11 (SUMP
Type	Curb Inlet In Sa
Solve For	Spread

Input Data		
Discharge	16.1	cfs
Gutter Width	0.0	ft
Gutter Cross Slope	0.0000	ft/ft
Road Cross Slope	0.0100	ft/ft
Curb Opening Leng	14.0	ft
Opening Height	0.72	ft
Curb Throat Type	orizontal	
Local Depression	4.0	in
Local Depression W	4.0	ft

Results		
Spread	47.8	ft
Throat Incline Ang	90.0	degree
Depth	0.48	ft
Gutter Depressio	0.0	in
Total Depression	4.0	in

CB #12
Worksheet for Curb Inlet In Sag

Project Description	
Worksheet	CB #12 (SUMP
Type	Curb Inlet In Sa
Solve For	Spread

Input Data		
Discharge	23.9	cfs
Gutter Width	0.0	ft
Gutter Cross Slope	0.0000	ft/ft
Road Cross Slope	0.0100	ft/ft
Curb Opening Leng	28.0	ft
Opening Height	0.72	ft
Curb Throat Type	orizontal	
Local Depression	4.0	in
Local Depression W	4.0	ft

Results		
Spread	44.3	ft
Throat Incline Ang	90.0	degree
Depth	0.44	ft
Gutter Depressio	0.0	in
Total Depression	4.0	in

CB #13
Worksheet for Curb Inlet In Sag

Project Description	
Worksheet	CB #13 (SUMP
Type	Curb Inlet In Sa
Solve For	Spread

Input Data		
Discharge	15.0	cfs
Gutter Width	1.5	ft
Gutter Cross Slope	0.0800	ft/ft
Road Cross Slope	0.0200	ft/ft
Curb Opening Leng	21.0	ft
Opening Height	0.72	ft
Curb Throat Type	orizontal	
Local Depression	4.0	in
Local Depression W	4.0	ft

Results		
Spread	18.8	ft
Throat Incline An	90.0	degree
Depth	0.47	ft
Gutter Depressio	1.1	in
Total Depression	5.1	in

CB #14, #15, #16, #17, #18, & #19
Worksheet for Curb Inlet On Grade

Project Description	
Worksheet	CB #14, #15, #16, #17, #18, & #19 (
Type	Curb Inlet On Grade
Solve For	Length

Input Data		
Discharge	60.90	cfs
Efficiency	1.00	
Slope	.0214	ft/ft
Gutter Width	1.5	ft
Gutter Cross Slope	.0800	ft/ft
Road Cross Slope	0.0200	ft/ft
Mannings Coefficie	0.015	
Local Depression	4.0	in
Local Depression W	4.0	ft

Results		
Curb Opening Length	159.1	ft
Intercepted Flow	60.90	cfs
Bypass Flow	0.00	cfs
Spread	40.9	ft
Depth	0.91	ft
Flow Area	16.8	ft²
Gutter Depression	1.1	in
Total Depression	5.1	in
Velocity	9.59	ft/s
Equivalent Cross Slop	.0309	ft/ft
Length Factor	0.99	
Total Interception Len	160.1	ft

LINE A-1
Worksheet for Trapezoidal Channel

Project Description	
Worksheet	LINE A-1
Flow Element	Trapezoidal Cha
Method	Manning's Formu
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.025	
Slope	0.005	ft/ft
Left Side Slope	2.00	H : V
Right Side Slope	2.00	H : V
Bottom Width	4.0	ft
Discharge	53.9	cfs

Results		
Depth	1.67	ft
Flow Area	12.3	ft²
Wetted Perim	11.5	ft
Top Width	10.7	ft
Critical Depth	1.40	ft
Critical Slope	0.010	ft/ft
Velocity	4.39	ft/s
Velocity Head	0.30	ft
Specific Energ	1.97	ft
Froude Numb	0.72	
Flow Type	Subcritical	

LINE A-2
Worksheet for Rectangular Channel

Project Description	
Worksheet	LINE A-2
Flow Element	Rectangular Cha
Method	Manning's Formu
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.005	ft/ft
Bottom Width	4.0	ft
Discharge	53.9	cfs

Results		
Depth	1.94	ft
Flow Area	7.8	ft²
Wetted Perim	7.9	ft
Top Width	4.0	ft
Critical Depth	1.78	ft
Critical Slope	0.006	ft/ft
Velocity	6.94	ft/s
Velocity Head	0.75	ft
Specific Energ	2.69	ft
Froude Numb	0.88	
Flow Type	Subcritical	

LINE B-1
Worksheet for Trapezoidal Channel

Project Description	
Worksheet	LINE B-1
Flow Element	Trapezoidal Cha
Method	Manning's Formu
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.005	ft/ft
Left Side Slope	1.00	H : V
Right Side Slope	1.00	H : V
Bottom Width	4.0	ft
Discharge	336.2	cfs

Results		
Depth	3.83	ft
Flow Area	30.0	ft²
Wetted Perim	14.8	ft
Top Width	11.7	ft
Critical Depth	4.27	ft
Critical Slope	0.003	ft/ft
Velocity	11.20	ft/s
Velocity Head	1.95	ft
Specific Energ	5.78	ft
Froude Numb	1.23	
Flow Type	Supercritical	

LINE B-2
Worksheet for Circular Channel

Project Description	
Worksheet	LINE B-2
Flow Element	Circular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.007	ft/ft
Diameter	78	in
Discharge	336.2	cfs

Results		
Depth	4.75	ft
Flow Area	26.0	ft²
Wetted Perime	13.3	ft
Top Width	5.8	ft
Critical Depth	4.92	ft
Percent Full	73.1	%
Critical Slope	0.006	ft/ft
Velocity	12.93	ft/s
Velocity Head	2.60	ft
Specific Energy	7.35	ft
Froude Numbe	1.07	
Maximum Disc	408.9	cfs
Discharge Full	380.1	cfs
Slope Full	0.005	ft/ft
Flow Type	upercritical	

LAT C-1
Worksheet for Circular Channel

Project Description	
Worksheet	LAT C-1
Flow Element	Circular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.010	ft/ft
Diameter	18	in
Discharge	5.7	cfs

Results		
Depth Flow	0.86	ft
Area Wetted	1.0	ft²
Perime Top	2.6	ft
Width Critical	1.5	ft
Depth Percent	0.92	ft
Full Critical	57.3	%
Slope Velocity	0.008	ft/ft
Velocity Head	5.44	ft/s
Specific Energy	0.46	ft
Froude Numbe	1.32	ft
Maximum Disc	1.14	
Discharge Full	9.8	cfs
Slope Full	9.1	cfs
Flow Type	0.004	ft/ft
	upercritical	

LAT C-2
Worksheet for Circular Channel

Project Description	
Worksheet	LAT C-2
Flow Element	Circular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.010	ft/ft
Diameter	18	in
Discharge	7.6	cfs

Results		
Depth Flow	1.05	ft
Area Wetted	1.3	ft²
Perime Top	3.0	ft
Width Critical	1.4	ft
Depth Percent	1.07	ft
Full Critical	69.8	%
Slope Velocity	0.010	ft/ft
Velocity Head	5.77	ft/s
Specific Energy	0.52	ft
Froude Numbe	1.56	ft
Maximum Disc	1.04	
Discharge Full	9.8	cfs
Slope Full	9.1	cfs
Flow Type	0.007	ft/ft
	upercritical	

LAT C-3
Worksheet for Circular Channel

Project Description	
Worksheet	LAT C-3
Flow Element	Circular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.010	ft/ft
Diameter	24	in
Discharge	17.8	cfs

Results		
Depth Flow	1.49	ft
Area Wetted	2.5	ft²
Perime Top	4.2	ft
Width Critical	1.7	ft
Depth Percent	1.52	ft
Full Critical	74.7	%
Slope Velocity	0.010	ft/ft
Velocity Head	7.07	ft/s
Specific Energy	0.78	ft
Froude Numbe	2.27	ft
Maximum Disc	1.04	
Discharge Full	21.1	cfs
Slope Full	19.6	cfs
Flow Type	0.008	ft/ft
	upercritical	

LAT E-1
Worksheet for Circular Channel

Project Description	
Worksheet	LAT E-1
Flow Element	Circular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.010	ft/ft
Diameter	18	in
Discharge	3.7	cfs

Results		
Depth	0.67	ft
Flow Area	0.8	ft²
Wetted Perime	2.2	ft
Top Width	1.5	ft
Critical Depth	0.73	ft
Percent Full	44.4	%
Critical Slope	0.007	ft/ft
Velocity	4.88	ft/s
Velocity Head	0.37	ft
Specific Energy	1.04	ft
Froude Numbe	1.21	
Maximum Disc	9.8	cfs
Discharge Full	9.1	cfs
Slope Full	0.002	ft/ft
Flow Type	upercritical	

LAT F-1
Worksheet for Circular Channel

Project Description	
Worksheet	LAT F-1
Flow Element	Circular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.005	ft/ft
Diameter	24	in
Discharge	13.4	cfs

Results		
Depth	1.58	ft
Flow Area	2.7	ft²
Wetted Perime	4.4	ft
Top Width	1.6	ft
Critical Depth	1.32	ft
Percent Full	79.1	%
Critical Slope	0.008	ft/ft
Velocity	5.03	ft/s
Velocity Head	0.39	ft
Specific Energy	1.97	ft
Froude Numbe	0.69	
Maximum Disc	14.9	cfs
Discharge Full	13.9	cfs
Slope Full	0.005	ft/ft
Flow Type	Subcritical	

LAT G-1
Worksheet for Circular Channel

Project Description	
Worksheet	LAT G-1
Flow Element	Circular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.005	ft/ft
Diameter	18	in
Discharge	3.5	cfs

Results		
Depth	0.79	ft
Flow Area	0.9	ft²
Wetted Perime	2.4	ft
Top Width	1.5	ft
Critical Depth	0.71	ft
Percent Full	52.6	%
Critical Slope	0.007	ft/ft
Velocity	3.72	ft/s
Velocity Head	0.21	ft
Specific Energy	1.00	ft
Froude Numbe	0.83	
Maximum Disc	6.9	cfs
Discharge Full	6.4	cfs
Slope Full	0.001	ft/ft
Flow Type	Subcritical	

LAT I-1
Worksheet for Circular Channel

Project Description	
Worksheet	LAT I-1
Flow Element	Circular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.010	ft/ft
Diameter	30	in
Discharge	28.0	cfs

Results		
Depth Flow	1.67	ft
Area Wetted	3.5	ft²
Perime Top	4.8	ft
Width Critical	2.4	ft
Depth Percent	1.80	ft
Full Critical	66.9	%
Slope Velocity	0.008	ft/ft
Velocity Head	8.02	ft/s
Specific Energy	1.00	ft
Froude Numbe	2.67	ft
Maximum Disc	1.16	
Discharge Full	38.2	cfs
Slope Full	35.5	cfs
Flow Type	0.006	ft/ft
	upercritical	

LAT I-2
Worksheet for Circular Channel

Project Description	
Worksheet	LAT I-2
Flow Element	Circular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.010	ft/ft
Diameter	36	in
Discharge	56.0	cfs

Results		
Depth Flow	2.38	ft
Area Wetted	6.0	ft²
Perime Top	6.6	ft
Width Critical	2.4	ft
Depth Percent	2.43	ft
Full Critical	79.3	%
Slope Velocity	0.010	ft/ft
Velocity Head	9.32	ft/s
Specific Energy	1.35	ft
Froude Numbe	3.73	ft
Maximum Disc	1.04	
Discharge Full	62.2	cfs
Slope Full	57.8	cfs
Flow Type	0.009	ft/ft
	upercritical	

LAT I-3
Worksheet for Circular Channel

Project Description	
Worksheet	LAT I-3
Flow Element	Circular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.010	ft/ft
Diameter	30	in
Discharge	23.9	cfs

Results		
Depth Flow	1.50	ft
Area Wetted	3.1	ft²
Perime Top	4.4	ft
Width Critical	2.4	ft
Depth Percent	1.66	ft
Full Critical	60.0	%
Slope Velocity	0.007	ft/ft
Velocity Head	7.77	ft/s
Specific Energy	0.94	ft
Froude Numbe	2.44	ft
Maximum Disc	1.22	
Discharge Full	38.2	cfs
Slope Full	35.5	cfs
Flow Type	0.005	ft/ft
	upercritical	

LAT I-4
Worksheet for Circular Channel

Project Description	
Worksheet	LAT I-4
Flow Element	Circular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.010	ft/ft
Diameter	36	in
Discharge	48.9	cfs

Results		
Depth Flow	2.12	ft
Area Wetted	5.3	ft²
Perime Top	6.0	ft
Width Critical	2.7	ft
Depth Percent	2.28	ft
Full Critical	70.6	%
Slope Velocity	0.008	ft/ft
Velocity Head	9.17	ft/s
Specific Energy	1.31	ft
Froude Numbe	3.42	ft
Maximum Disc	1.16	
Discharge Full	62.2	cfs
Slope Full	57.8	cfs
Flow Type	0.007	ft/ft
	upercritical	

LINE C-1
Worksheet for Circular Channel

Project Description	
Worksheet	LINE C-1
Flow Element	Circular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.010	ft/ft
Diameter	24	in
Discharge	11.4	cfs

Results		
Depth Flow	1.10	ft
Area Wetted	1.8	ft²
Perime Top	3.3	ft
Width Critical	2.0	ft
Depth Percent	1.21	ft
Full Critical	54.8	%
Slope Velocity	0.007	ft/ft
Velocity Head	6.47	ft/s
Specific Energy	0.65	ft
Froude Numbe	1.75	ft
Maximum Disc	1.21	
Discharge Full	21.1	cfs
Slope Full	19.6	cfs
Flow Type	0.003	ft/ft
	upercritical	

LINE C-2
Worksheet for Circular Channel

Project Description	
Worksheet	LINE C-2
Flow Element	Circular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.010	ft/ft
Diameter	30	in
Discharge	29.2	cfs

Results		
Depth Flow	1.72	ft
Area Wetted	3.6	ft²
Perime Top	4.9	ft
Width Critical	2.3	ft
Depth Percent	1.84	ft
Full Critical	69.0	%
Slope Velocity	0.008	ft/ft
Velocity Head	8.08	ft/s
Specific Energy	1.02	ft
Froude Numbe	2.74	ft
Maximum Disc	1.14	
Discharge Full	38.2	cfs
Slope Full	35.5	cfs
Flow Type	0.007	ft/ft
	upercritical	

LINE D
Worksheet for Circular Channel

Project Description	
Worksheet	LINE D
Flow Element	Circular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.020	ft/ft
Diameter	18	in
Discharge	9.7	cfs

Results		
Depth	0.97	ft
Flow Area	1.2	ft²
Wetted Perime	2.8	ft
Top Width	1.4	ft
Critical Depth	1.20	ft
Percent Full	64.8	%
Critical Slope	0.012	ft/ft
Velocity	8.00	ft/s
Velocity Head	1.00	ft
Specific Energy	1.97	ft
Froude Numbe	1.53	
Maximum Disc	13.8	cfs
Discharge Full	12.9	cfs
Slope Full	0.011	ft/ft
Flow Type	upercritical	

LINE E-1
Worksheet for Circular Channel

Project Description	
Worksheet	LINE E-1
Flow Element	Circular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.010	ft/ft
Diameter	18	in
Discharge	6.6	cfs

Results		
Depth Flow	0.95	ft
Area Wetted	1.2	ft²
Perime Top	2.8	ft
Width Critical	1.4	ft
Depth Percent	0.99	ft
Full Critical	63.1	%
Slope Velocity	0.009	ft/ft
Velocity Head	5.61	ft/s
Specific Energy	0.49	ft
Froude Numbe	1.44	ft
Maximum Disc	1.10	
Discharge Full	9.8	cfs
Slope Full	9.1	cfs
Flow Type	0.005	ft/ft
	upercritical	

LINE E-2
Worksheet for Circular Channel

Project Description	
Worksheet	LINE E-2
Flow Element	Circular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.010	ft/ft
Diameter	18	in
Discharge	10.3	cfs

Results		
Depth Flow	0.00	ft
Area Wetted	1.8	ft²
Perime Top	0.0	ft
Width Critical	2.0	ft
Depth Percent	1.15	ft
Full Critical	51.5	%
Slope Velocity	0.007	ft/ft
Velocity Head	6.32	ft/s
Specific Energy	0.62	ft
Froude Numbe	1.65	ft
Maximum Disc	1.23	
Discharge Full	21.1	cfs
Slope Full	9.1	cfs
Flow Type	0.003	ft/ft
	upercritical	

Error Messages:
Model not converging, check input variables.

LINE F-1
Worksheet for Circular Channel

Project Description	
Worksheet	LINE F-1
Flow Element	Circular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.005	ft/ft
Diameter	18	in
Discharge	3.0	cfs

Results		
Depth Flow	0.72	ft
Area Wetted	0.8	ft²
Perime Top	2.3	ft
Width Critical	1.5	ft
Depth Percent	0.66	ft
Full Critical	48.0	%
Slope Velocity	0.007	ft/ft
Velocity Head	3.58	ft/s
Specific Energy	0.20	ft
Froude Numbe	0.92	ft
Maximum Disc	0.84	
Discharge Full	6.9	cfs
Slope Full	6.4	cfs
	0.001	ft/ft
Flow Type	Subcritical	

LINE F-2
Worksheet for Circular Channel

Project Description	
Worksheet	LINE F-2
Flow Element	Circular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.005	ft/ft
Diameter	24	in
Discharge	13.0	cfs

Results		
Depth Flow	1.54	ft
Area Wetted	2.6	ft²
Perime Top	4.3	ft
Width Critical	1.7	ft
Depth Percent	1.30	ft
Full Critical	76.9	%
Slope Velocity	0.008	ft/ft
Velocity Head	5.02	ft/s
Specific Energy	0.39	ft
Froude Numbe	1.93	ft
Maximum Disc	0.71	
Discharge Full	14.9	cfs
Slope Full	13.9	cfs
	0.004	ft/ft
Flow Type	Subcritical	

LINE F-3
Worksheet for Circular Channel

Project Description	
Worksheet	LINE F-3
Flow Element	Circular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.005	ft/ft
Diameter	36	in
Discharge	26.4	cfs

Results		
Depth Flow	1.75	ft
Area Wetted	4.3	ft²
Perime Top	5.2	ft
Width Critical	3.0	ft
Depth Percent	1.66	ft
Full Critical	58.5	%
Slope Velocity	0.006	ft/ft
Velocity Head	6.15	ft/s
Specific Energy	0.59	ft
Froude Numbe	2.34	ft
Maximum Disc	0.90	
Discharge Full	44.0	cfs
Slope Full	40.9	cfs
	0.002	ft/ft
Flow Type	Subcritical	

LINE G-1
Worksheet for Circular Channel

Project Description	
Worksheet	LINE G-1
Flow Element	Circular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.005	ft/ft
Diameter	18	in
Discharge	6.5	cfs

Results		
Depth Flow	1.24	ft
Area Wetted	1.6	ft²
Perime Top	3.4	ft
Width Critical	1.1	ft
Depth Percent	0.99	ft
Full Critical	82.9	%
Slope Velocity	0.009	ft/ft
Velocity Head	4.15	ft/s
Specific Energy	0.27	ft
Froude Numbe	1.51	ft
Maximum Disc	0.62	
Discharge Full	6.9	cfs
Slope Full	6.4	cfs
	0.005	ft/ft
Flow Type	Subcritical	

LINE G-2
Worksheet for Circular Channel

Project Description	
Worksheet	LINE G-2
Flow Element	Circular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.005	ft/ft
Diameter	24	in
Discharge	10.0	cfs

Results		
Depth Flow	1.26	ft
Area Wetted	2.1	ft²
Perime Top	3.7	ft
Width Critical	1.9	ft
Depth Percent	1.13	ft
Full Critical	62.9	%
Slope Velocity	0.007	ft/ft
Velocity Head	4.80	ft/s
Specific Energy	0.36	ft
Froude Numbe	1.62	ft
Maximum Disc	0.82	
Discharge Full	14.9	cfs
Slope Full	13.9	cfs
	0.003	ft/ft
Flow Type	Subcritical	

LINE H-1
Worksheet for Circular Channel

Project Description	
Worksheet	LINE H-1
Flow Element	Circular Chann
Method	Manning's For
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.010	ft/ft
Diameter	24	in
Discharge	16.1	cfs

Results		
Depth	1.38	ft
Flow Area	2.3	ft²
Wetted Perime	3.9	ft
Top Width	1.9	ft
Critical Depth	1.45	ft
Percent Full	69.0	%
Critical Slope	0.009	ft/ft
Velocity	6.97	ft/s
Velocity Head	0.75	ft
Specific Energy	2.13	ft
Froude Numbe	1.10	
Maximum Disc	21.1	cfs
Discharge Full	19.6	cfs
Slope Full	0.007	ft/ft
Flow Type	Supercritical	

LINE H-2
Worksheet for Circular Channel

Project Description	
Worksheet	LINE H-2
Flow Element	Circular Chann
Method	Manning's Forr
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.010	ft/ft
Diameter	60	in
Discharge	200.9	cfs

Results		
Depth	3.67	ft
Flow Area	15.5	ft²
Wetted Perime	10.3	ft
Top Width	4.4	ft
Critical Depth	4.05	ft
Percent Full	73.5	%
Critical Slope	0.008	ft/ft
Velocity	12.99	ft/s
Velocity Head	2.62	ft
Specific Energy	6.30	ft
Froude Numbe	1.22	
Maximum Disc	242.8	cfs
Discharge Full	225.7	cfs
Slope Full	0.008	ft/ft
Flow Type	Supercritical	

LINE I-1
Worksheet for Circular Channel

Project Description	
Worksheet	LINE I-1
Flow Element	Circular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.010	ft/ft
Diameter	36	in
Discharge	56.0	cfs

Results		
Depth Flow	2.38	ft
Area Wetted	6.0	ft²
Perime Top	6.6	ft
Width Critical	2.4	ft
Depth Percent	2.43	ft
Full Critical	79.3	%
Slope Velocity	0.010	ft/ft
Velocity Head	9.32	ft/s
Specific Energy	1.35	ft
Froude Numbe	3.73	ft
Maximum Disc	1.04	
Discharge Full	62.2	cfs
Slope Full	57.8	cfs
Flow Type	0.009	ft/ft
	upercritical	

LINE I-2
Worksheet for Circular Channel

Project Description	
Worksheet	LINE I-2
Flow Element	Circular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.010	ft/ft
Diameter	48	in
Discharge	112.0	cfs

Results		
Depth Flow	2.97	ft
Area Wetted	10.0	ft²
Perime Top	8.3	ft
Width Critical	3.5	ft
Depth Percent	3.20	ft
Full Critical	74.1	%
Slope Velocity	0.008	ft/ft
Velocity Head	11.21	ft/s
Specific Energy	1.95	ft
Froude Numbe	4.92	ft
Maximum Disc	1.17	
Discharge Full	133.9	cfs
Slope Full	124.5	cfs
Flow Type	0.008	ft/ft
	upercritical	

LINE I-3
Worksheet for Circular Channel

Project Description	
Worksheet	LINE I-3
Flow Element	Circular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.010	ft/ft
Diameter	54	in
Discharge	135.9	cfs

Results		
Depth Flow	3.04	ft
Area Wetted	11.4	ft²
Perime Top	8.7	ft
Width Critical	4.2	ft
Depth Percent	3.43	ft
Full Critical	67.5	%
Slope Velocity	0.007	ft/ft
Velocity Head	11.90	ft/s
Specific Energy	2.20	ft
Froude Numbe	5.24	ft
Maximum Disc	1.27	
Discharge Full	183.3	cfs
Slope Full	170.4	cfs
Flow Type	0.006	ft/ft
	upercritical	

LINE I-4
Worksheet for Circular Channel

Project Description	
Worksheet	LINE I-4
Flow Element	Circular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.010	ft/ft
Diameter	60	in
Discharge	184.8	cfs

Results		
Depth Flow	3.44	ft
Area Wetted	14.4	ft²
Perime Top	9.8	ft
Width Critical	4.6	ft
Depth Percent	3.89	ft
Full Critical	68.8	%
Slope Velocity	0.007	ft/ft
Velocity Head	12.82	ft/s
Specific Energy	2.56	ft
Froude Numbe	6.00	ft
Maximum Disc	1.28	
Discharge Full	242.8	cfs
Slope Full	225.7	cfs
Flow Type	0.007	ft/ft
	upercritical	

LINE J
Worksheet for Circular Channel

Project Description	
Worksheet	LINE J
Flow Element	Circular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.010	ft/ft
Diameter	24	in
Discharge	15.0	cfs

Results		
Depth	1.31	ft
Flow Area	2.2	ft²
Wetted Perime	3.8	ft
Top Width	1.9	ft
Critical Depth	1.40	ft
Percent Full	65.5	%
Critical Slope	0.008	ft/ft
Velocity	6.88	ft/s
Velocity Head	0.73	ft
Specific Energy	2.05	ft
Froude Numbe	1.13	
Maximum Disc	21.1	cfs
Discharge Full	19.6	cfs
Slope Full	0.006	ft/ft
Flow Type	upercritical	

CP I-1
Worksheet for Circular Channel

Project Description	
Worksheet	CP I-1
Flow Element	Circular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.010	ft/ft
Diameter	36	in
Discharge	28.0	cfs

Results		
Depth Flow	1.47	ft
Area Wetted	3.5	ft²
Perime Top	4.7	ft
Width Critical	3.0	ft
Depth Percent	1.71	ft
Full Critical	49.1	%
Slope Velocity	0.006	ft/ft
Velocity Head	8.11	ft/s
Specific Energy	1.02	ft
Froude Numbe	2.50	ft
Maximum Disc	1.33	
Discharge Full	62.2	cfs
Slope Full	57.8	cfs
Flow Type	0.002	ft/ft
	upercritical	

CP I-2
Worksheet for Circular Channel

Project Description	
Worksheet	CP I-2
Flow Element	Circular Chann
Method	Manning's Form
Solve For	Channel Depth

Input Data		
Mannings Coeffic	0.015	
Slope	0.010	ft/ft
Diameter	36	in
Discharge	28.0	cfs

Results		
Depth Flow	1.47	ft
Area Wetted	3.5	ft²
Perime Top	4.7	ft
Width Critical	3.0	ft
Depth Percent	1.71	ft
Full Critical	49.1	%
Slope Velocity	0.006	ft/ft
Velocity Head	8.11	ft/s
Specific Energy	1.02	ft
Froude Numbe	2.50	ft
Maximum Disc	1.33	
Discharge Full	62.2	cfs
Slope Full	57.8	cfs
Flow Type	0.002	ft/ft
	upercritical	

APPENDIX G: HEC-RAS SUMMARY INPUT AND OUTPUT FILES FOR MISSION CREEK AND MORONGO WASH

HEC-RAS Plan: MC n=0.025 River: Mission Creek Reach: 1 Profile: ACI

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
1	3835	ACI	13734.00	964.05	970.57	970.57	973.06	0.005388	12.67	1083.75	217.80	1.00
1	3647	ACI	13734.00	959.97	965.10	966.88	970.99	0.019325	19.48	705.16	193.94	1.80
1	3407	ACI	13734.00	955.01	960.05	961.96	966.25	0.019963	19.97	687.78	186.76	1.83
1	3155	ACI	13734.00	950.02	955.16	957.21	960.95	0.021161	19.32	713.35	231.42	1.86
1	3064	ACI	13734.00	948.03	953.00	955.03	958.93	0.022692	19.54	702.76	217.53	1.92
1	2986	ACI	13734.00	946.59	951.37	953.35	957.15	0.021634	19.30	711.76	216.63	1.88
1	2907	ACI	13734.00	945.00	950.05	951.75	955.30	0.021316	18.40	746.38	241.38	1.84
1	2665	ACI	13734.00	940.01	944.37	946.13	950.16	0.020762	19.31	711.08	209.43	1.85
1	2425	ACI	13734.00	935.00	939.68	941.40	945.32	0.019218	19.06	720.74	204.20	1.79
1	2180	ACI	13734.00	930.00	934.56	936.40	940.53	0.019616	19.61	700.38	192.90	1.81
1	1927	ACI	13734.00	924.91	929.97	931.79	935.78	0.017640	19.34	710.05	184.41	1.74
1	1686	ACI	13734.00	920.00	924.68	926.66	931.08	0.021085	20.32	676.01	186.47	1.88
1	1460	ACI	13734.00	915.13	920.42	922.07	925.83	0.015088	18.66	736.12	179.17	1.62
1	1204	ACI	13734.00	910.00	915.13	917.05	921.36	0.019578	20.03	685.56	182.22	1.82
1	954	ACI	13734.00	905.12	910.82	912.70	916.79	0.016594	19.61	700.40	170.25	1.70
1	693	ACI	13734.00	900.18	905.42	907.48	911.99	0.019956	20.57	667.56	173.39	1.85
1	418	ACI	13734.00	895.04	900.47	902.35	906.59	0.018407	19.85	692.02	178.43	1.78
1	260	ACI	13734.00	892.30	897.80	899.68	903.78	0.016699	19.62	699.96	170.54	1.71
1	137	ACI	13734.00	890.02	895.58	897.54	901.69	0.017018	19.84	692.17	168.30	1.72
1	0	ACI	13734.00	887.65	893.05	895.05	899.28	0.018108	20.03	685.69	172.33	1.77

HEC-RAS Plan: MC n=0.030 River: Mission Creek Reach: 1 Profile: ACI

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
1	3835	ACI	13734.00	964.05	970.57	970.57	973.06	0.007759	12.67	1083.75	217.80	1.00
1	3647	ACI	13734.00	959.97	966.88	966.88	969.47	0.007802	12.93	1062.14	207.66	1.01
1	3407	ACI	13734.00	955.01	961.96	961.96	964.54	0.007704	12.90	1064.56	206.60	1.00
1	3155	ACI	13734.00	950.02	957.21	957.21	959.03	0.005353	11.14	1368.09	384.80	0.85
1	3064	ACI	13734.00	948.03	955.03	955.03	956.91	0.006302	11.13	1303.50	362.42	0.90
1	2986	ACI	13734.00	946.59	953.35	953.35	955.30	0.007512	11.23	1239.92	373.97	0.96
1	2907	ACI	13734.00	945.00	951.75	951.75	953.72	0.008344	11.27	1221.22	325.38	1.00
1	2665	ACI	13734.00	940.01	946.13	946.13	948.56	0.007924	12.51	1098.39	232.43	1.01
1	2425	ACI	13734.00	935.00	941.40	941.40	943.89	0.007671	12.65	1087.54	226.68	1.00
1	2180	ACI	13734.00	930.00	936.40	936.40	938.95	0.007803	12.83	1070.77	212.13	1.01
1	1927	ACI	13734.00	924.91	931.79	931.79	934.38	0.007656	12.91	1063.77	205.86	1.00
1	1686	ACI	13734.00	920.00	926.66	926.66	929.24	0.007642	12.90	1064.88	206.05	1.00
1	1460	ACI	13734.00	915.13	922.05	922.05	924.77	0.007640	13.23	1037.77	192.75	1.01
1	1204	ACI	13734.00	910.00	917.04	917.04	919.70	0.007716	13.10	1048.44	199.11	1.01
1	954	ACI	13734.00	905.12	912.70	912.70	915.40	0.007548	13.19	1041.62	193.25	1.00
1	693	ACI	13734.00	900.18	907.49	907.49	910.14	0.007573	13.07	1050.62	197.89	1.00
1	418	ACI	13734.00	895.04	902.35	902.35	905.03	0.007698	13.13	1046.01	197.99	1.01
1	260	ACI	13734.00	892.30	899.69	899.69	902.36	0.007677	13.12	1046.84	198.01	1.01
1	137	ACI	13734.00	890.02	897.54	897.54	900.20	0.007564	13.09	1049.02	196.93	1.00
1	0	ACI	13734.00	887.65	895.05	895.05	897.66	0.007624	12.96	1059.90	203.41	1.00

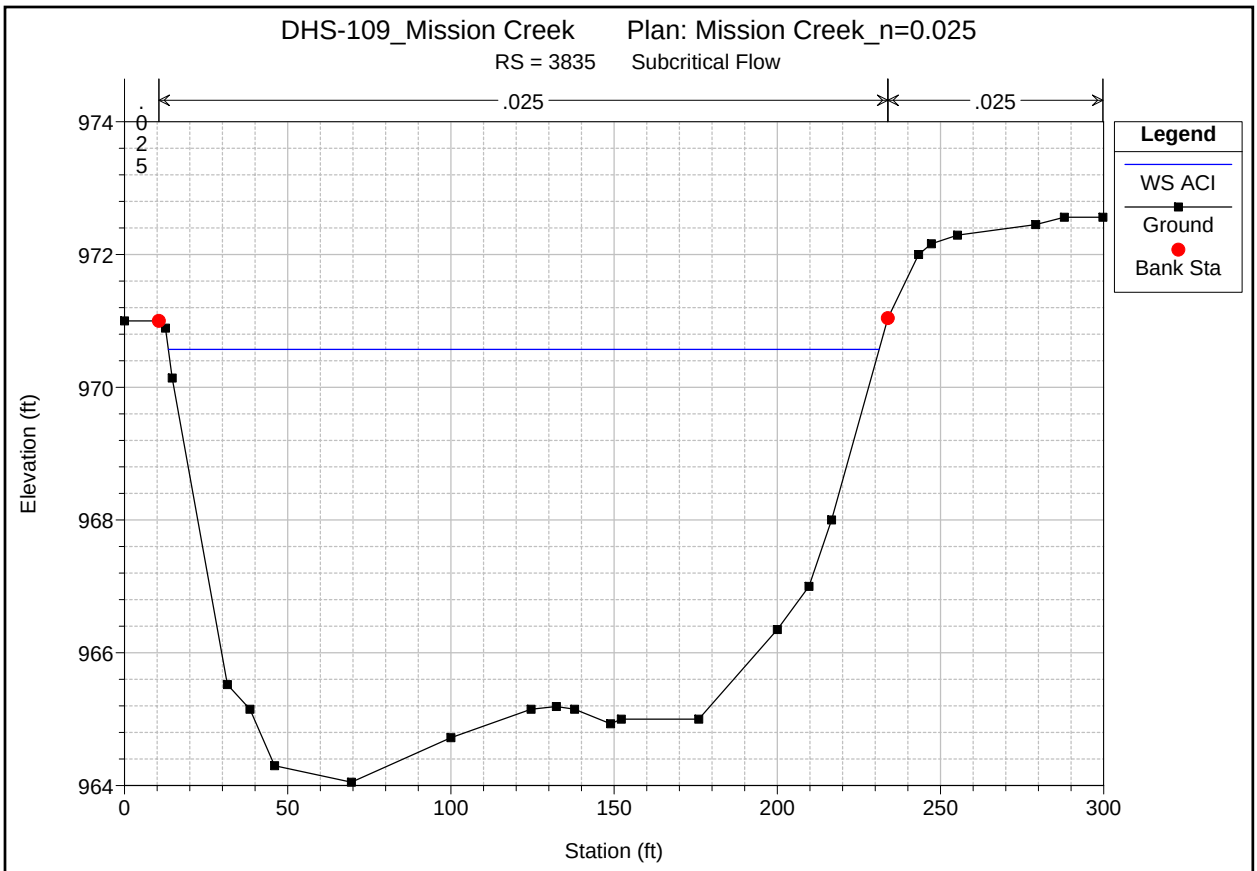
HEC-RAS Plan: MW n=0.025 River: Morongo Wash Reach: 1 Profile: ACI

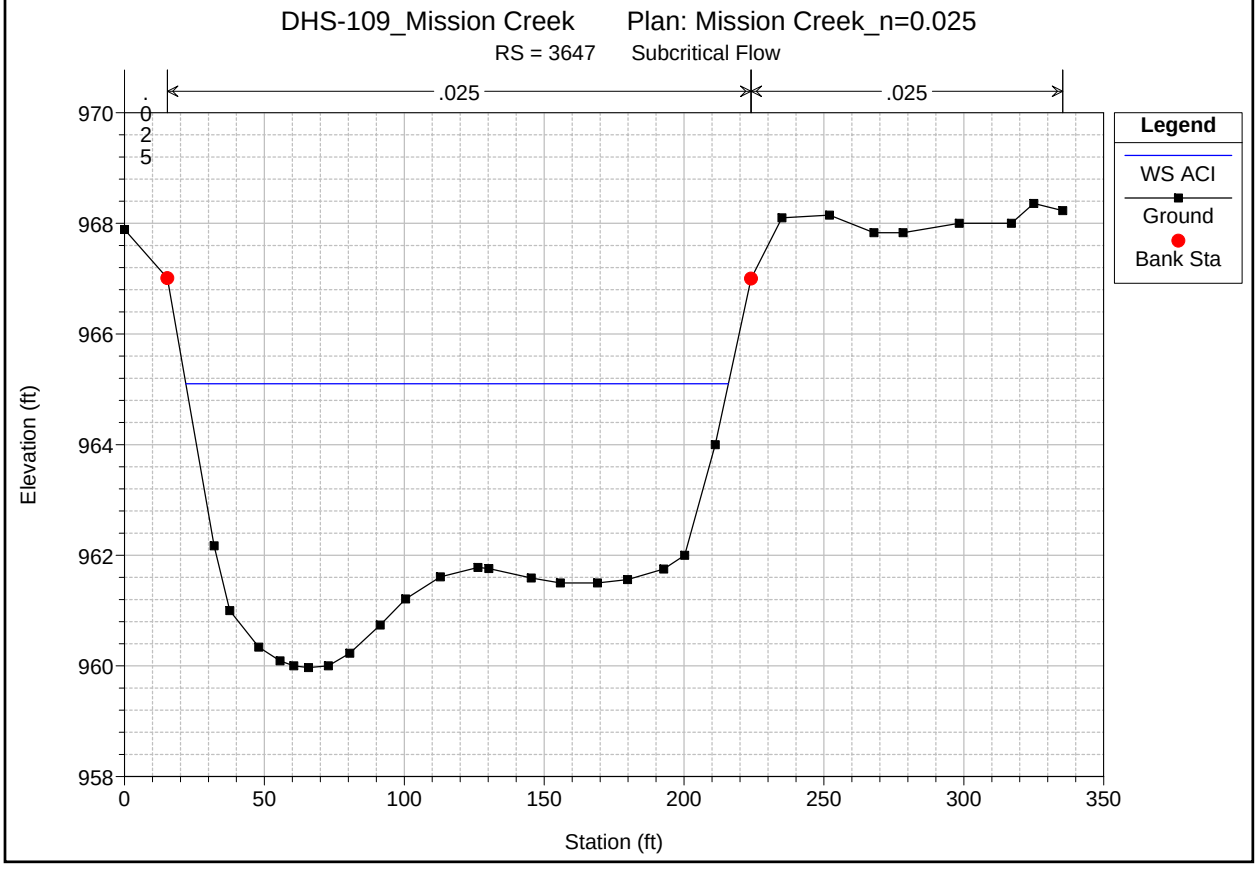
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
1	929	ACI	26609.00	938.15	944.46	944.46	946.65	0.005531	11.88	2242.84	526.24	1.00
1	743	ACI	26609.00	936.00	940.48	941.81	944.75	0.017808	16.58	1604.97	530.58	1.68
1	638	ACI	26609.00	933.96	939.12	940.21	942.89	0.014943	15.57	1708.64	543.95	1.55
1	536	ACI	26609.00	931.95	938.08	939.01	941.49	0.010869	14.92	1827.08	561.03	1.36
1	471	ACI	26609.00	930.90	937.32	938.16	940.80	0.010439	14.99	1782.47	467.85	1.34
1	392	ACI	26609.00	929.68	936.41	937.16	940.05	0.008367	15.32	1745.02	375.17	1.23
1	232	ACI	26609.00	927.00	934.52	935.52	938.65	0.008397	16.35	1650.07	359.64	1.25
1	104	ACI	26609.00	925.00	933.28	934.48	937.63	0.007227	17.35	1712.27	392.25	1.19
1	0	ACI	26609.00	923.44	931.70	933.18	936.72	0.009169	18.90	1595.19	373.83	1.33

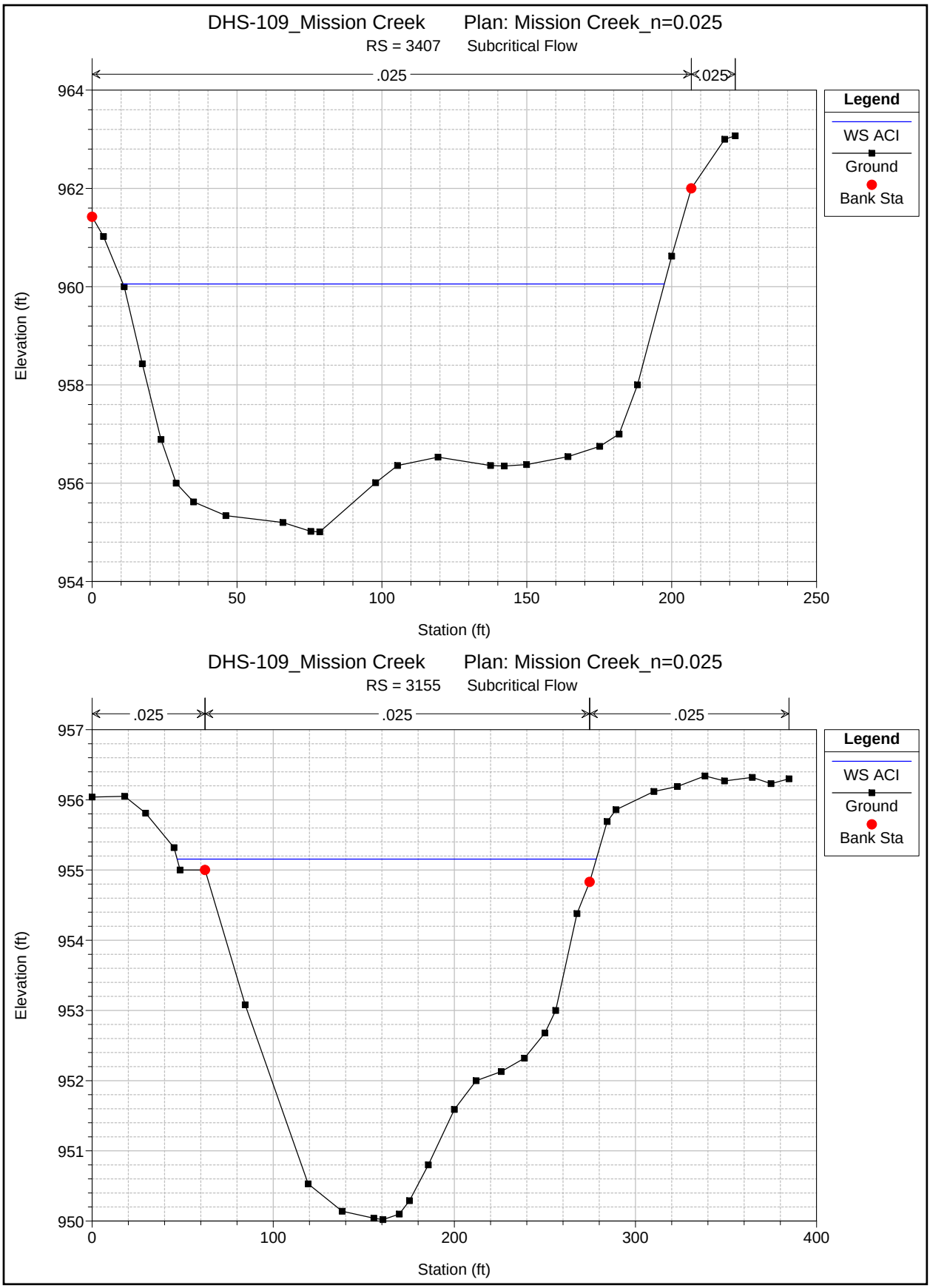
HEC-RAS Plan: MW n=0.030 River: Morongo Wash Reach: 1 Profile: ACI

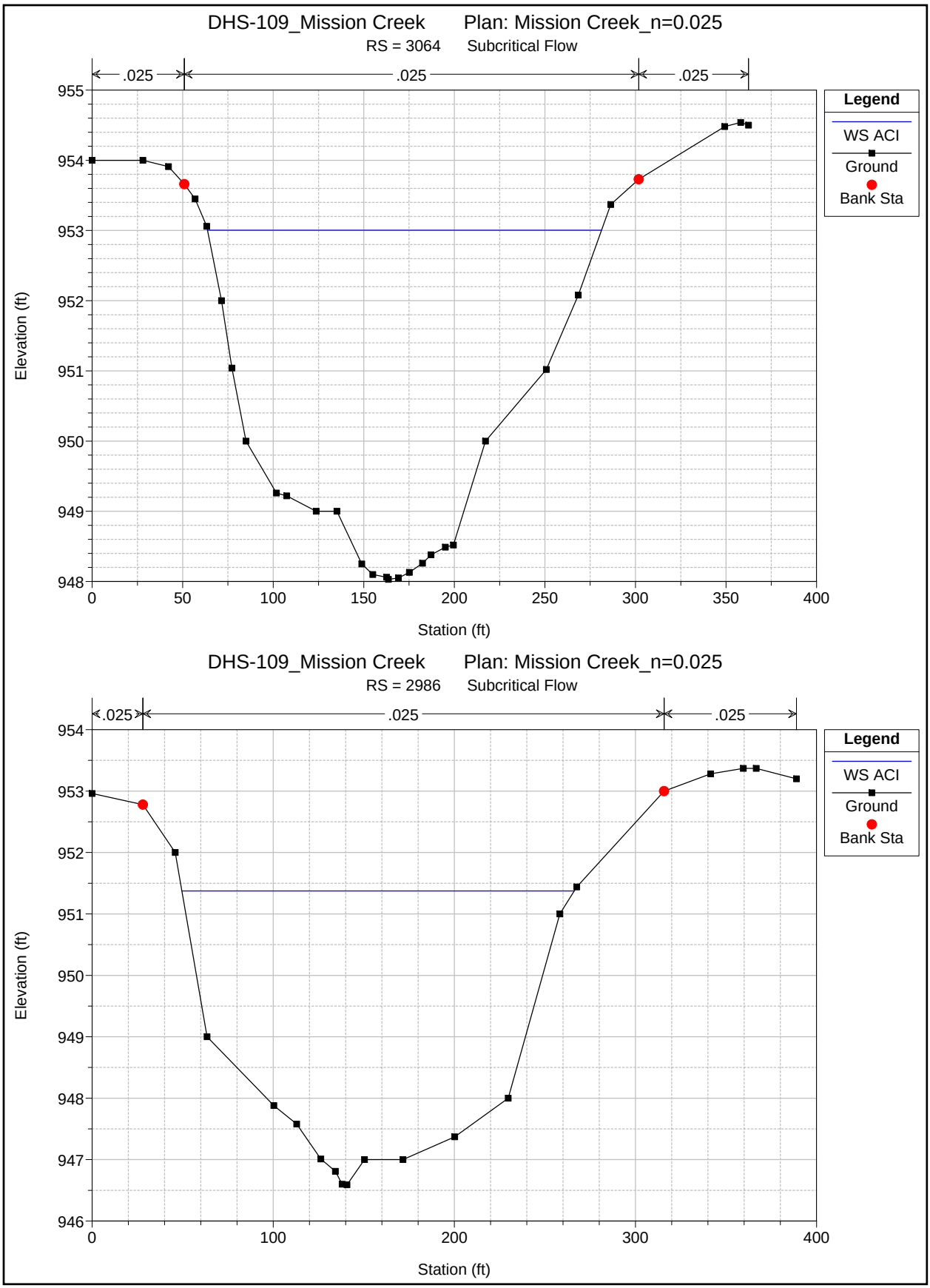
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
1	929	ACI	26609.00	938.15	944.45	944.45	946.67	0.005415	11.96	2235.84	525.66	0.99
1	743	ACI	26609.00	936.00	941.81	941.81	943.81	0.005617	11.36	2349.85	601.71	0.99
1	638	ACI	26609.00	933.96	940.21	940.21	942.25	0.005661	11.46	2327.21	576.98	1.00
1	536	ACI	26609.00	931.95	939.01	939.01	941.08	0.004978	11.71	2348.60	561.03	0.95
1	471	ACI	26609.00	930.90	938.16	938.16	940.50	0.005428	12.30	2175.10	467.85	1.00
1	392	ACI	26609.00	929.68	936.68	936.68	939.08	0.005248	12.46	2152.83	470.21	0.99
1	232	ACI	26609.00	927.00	934.20	934.20	936.48	0.004876	12.13	2228.96	532.18	0.96
1	104	ACI	26609.00	925.00	932.24	932.24	934.40	0.004262	11.86	2335.88	640.26	0.90
1	0	ACI	26609.00	923.44	930.53	930.53	932.65	0.004321	11.80	2360.81	597.19	0.91

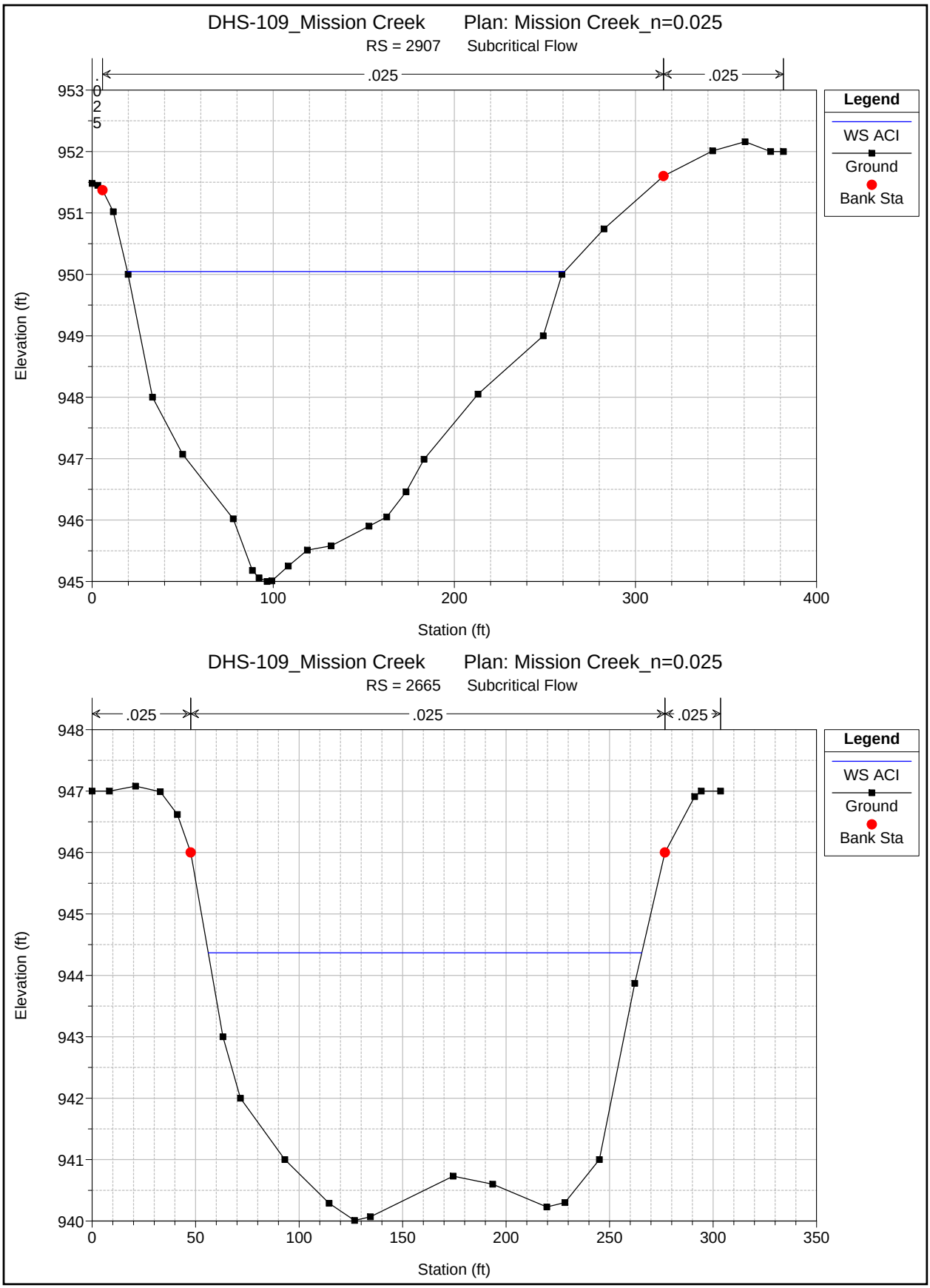
APPENDIX H: HEC-RAS STREAM CROSS SECTIONS FOR MISSION CREEK AND MORONGO WASH

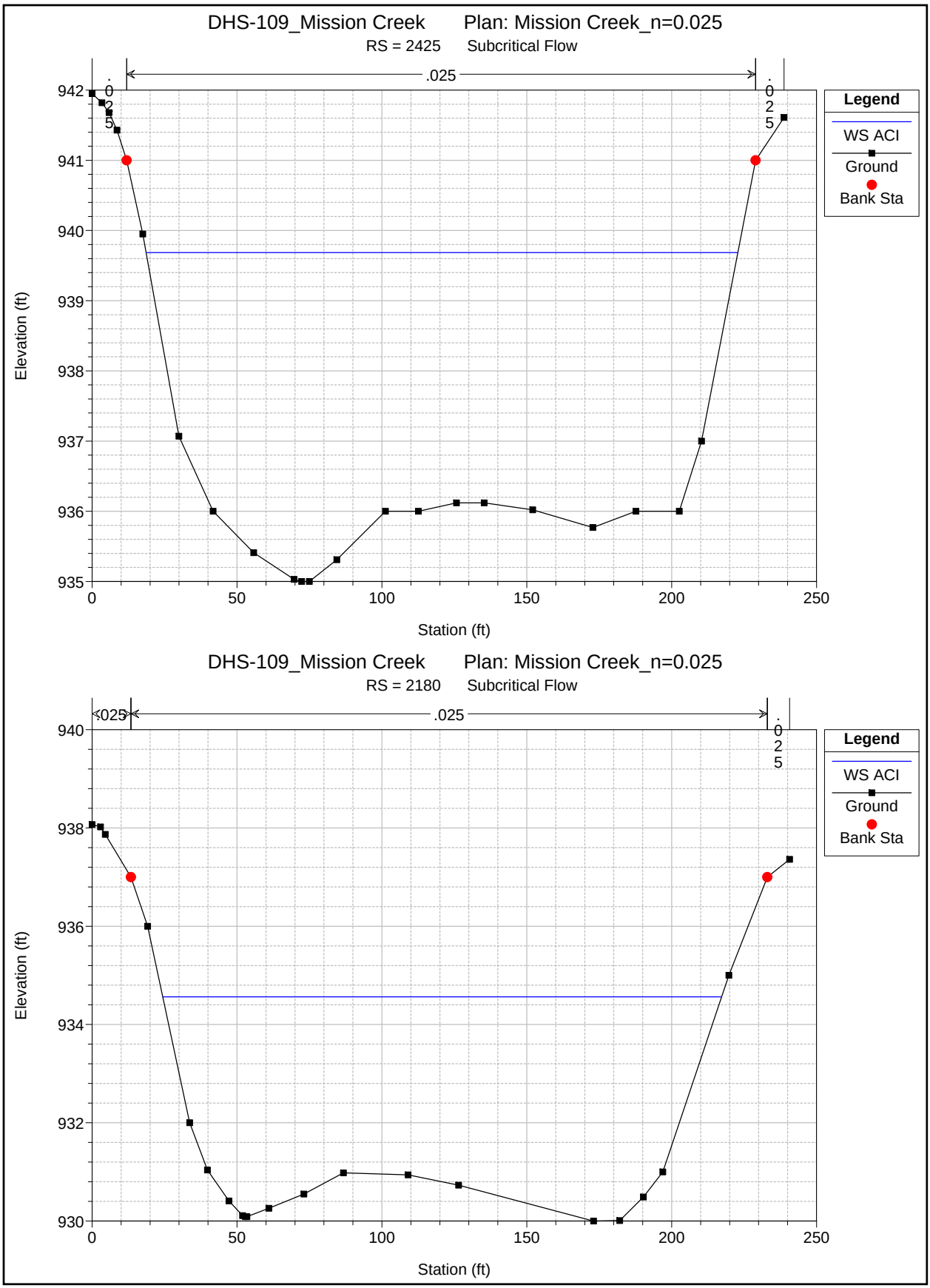

DHS-109_Mission Creek Plan: Mission Creek_n=0.025
RS = 3835 Subcritical Flow
.025
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
974
972
970
968
966
964
0
50
100
150
200
250
300

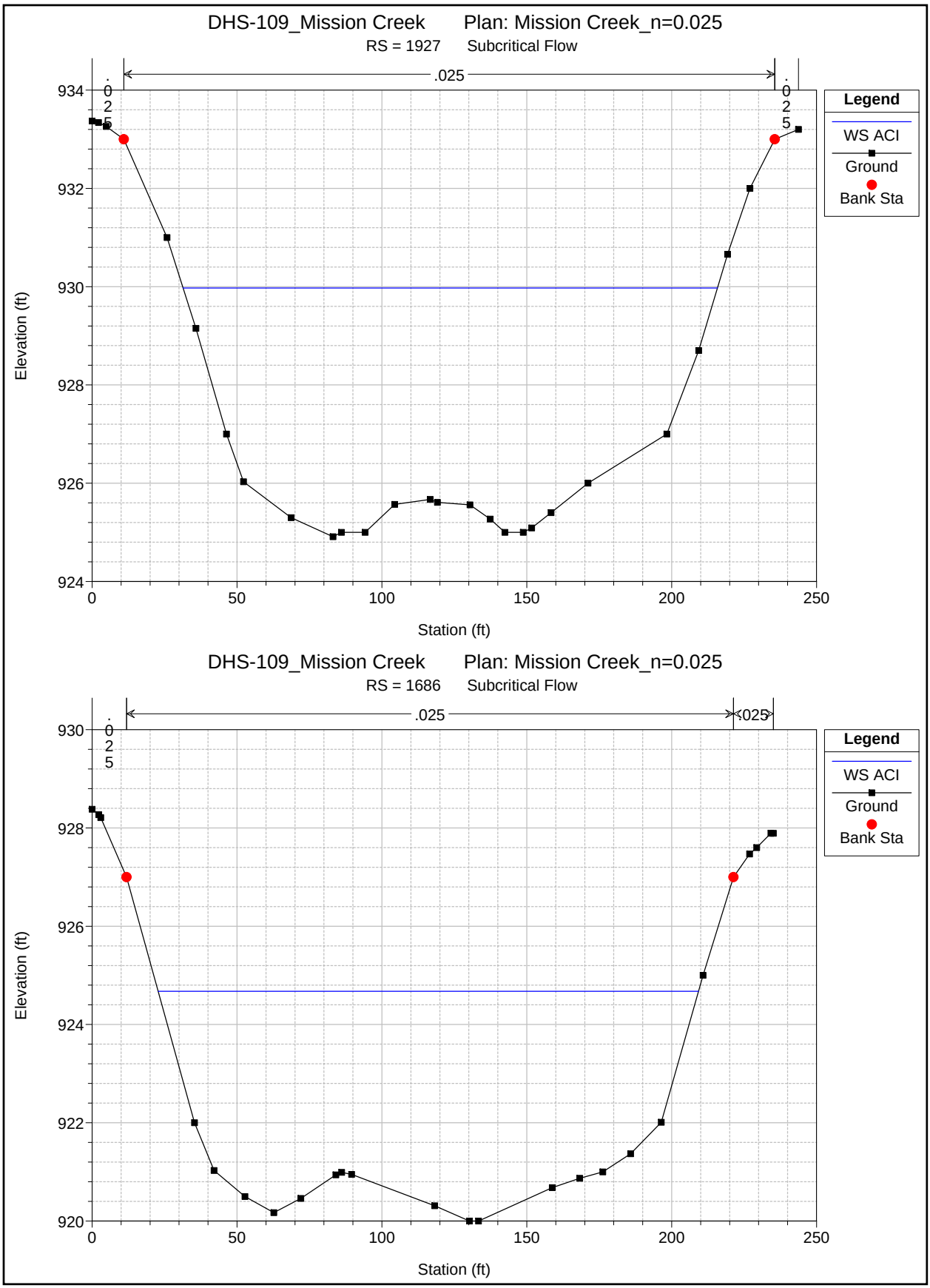

DHS-109_Mission Creek Plan: Mission Creek_n=0.025
RS = 3647 Subcritical Flow
.025
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
970
968
966
964
962
960
958
0
50
100
150
200
250
300
350

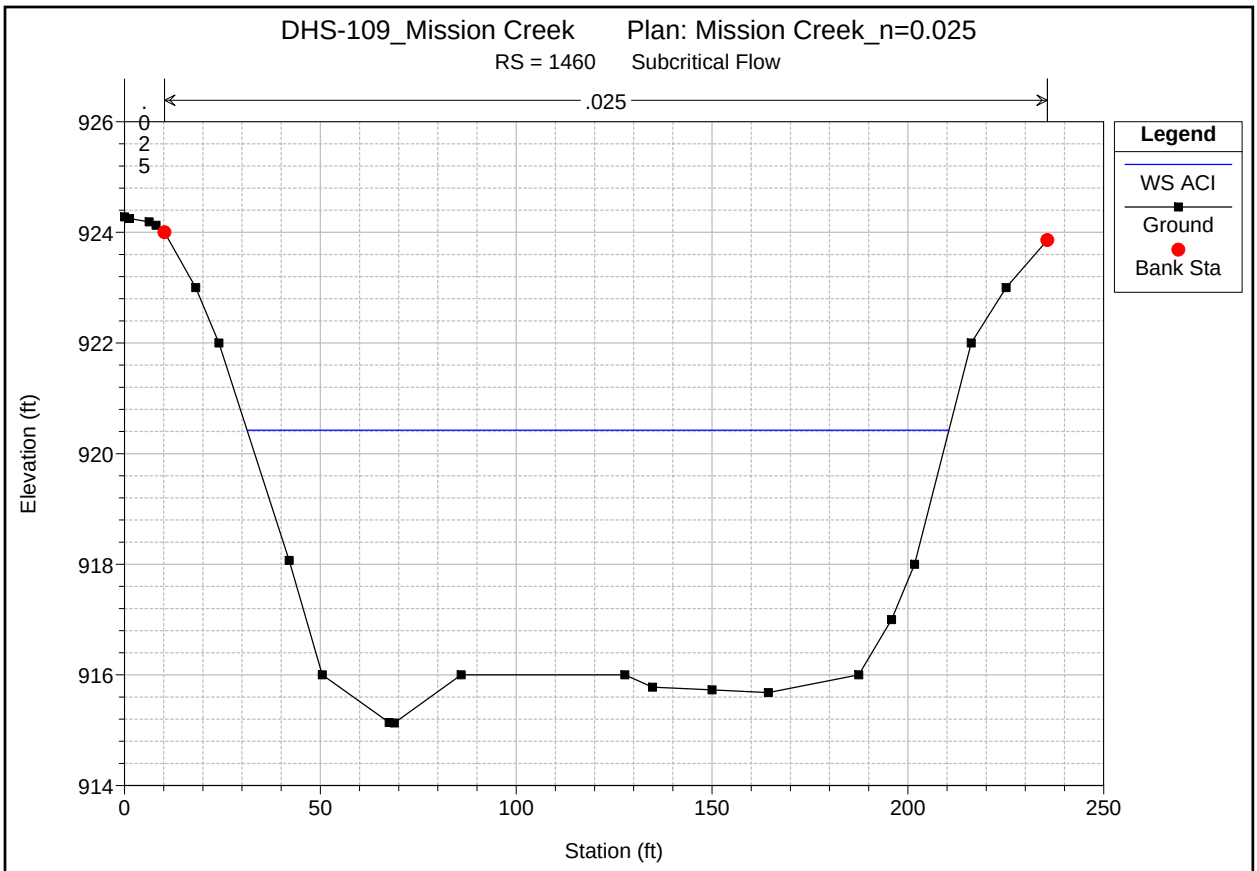

DHS-109_Mission Creek Plan: Mission Creek_n=0.025
RS = 3407 Subcritical Flow
.025
.025
964
962
960
958
956
954
Elevation (ft)
0
50
100
150
200
250
Station (ft)
Legend
WS ACI
Ground
Bank Sta
DHS-109_Mission Creek Plan: Mission Creek_n=0.025
RS = 3155 Subcritical Flow
.025
.025
.025
957
956
955
954
953
952
951
950
Elevation (ft)
0
100
200
300
400
Station (ft)
Legend
WS ACI
Ground
Bank Sta

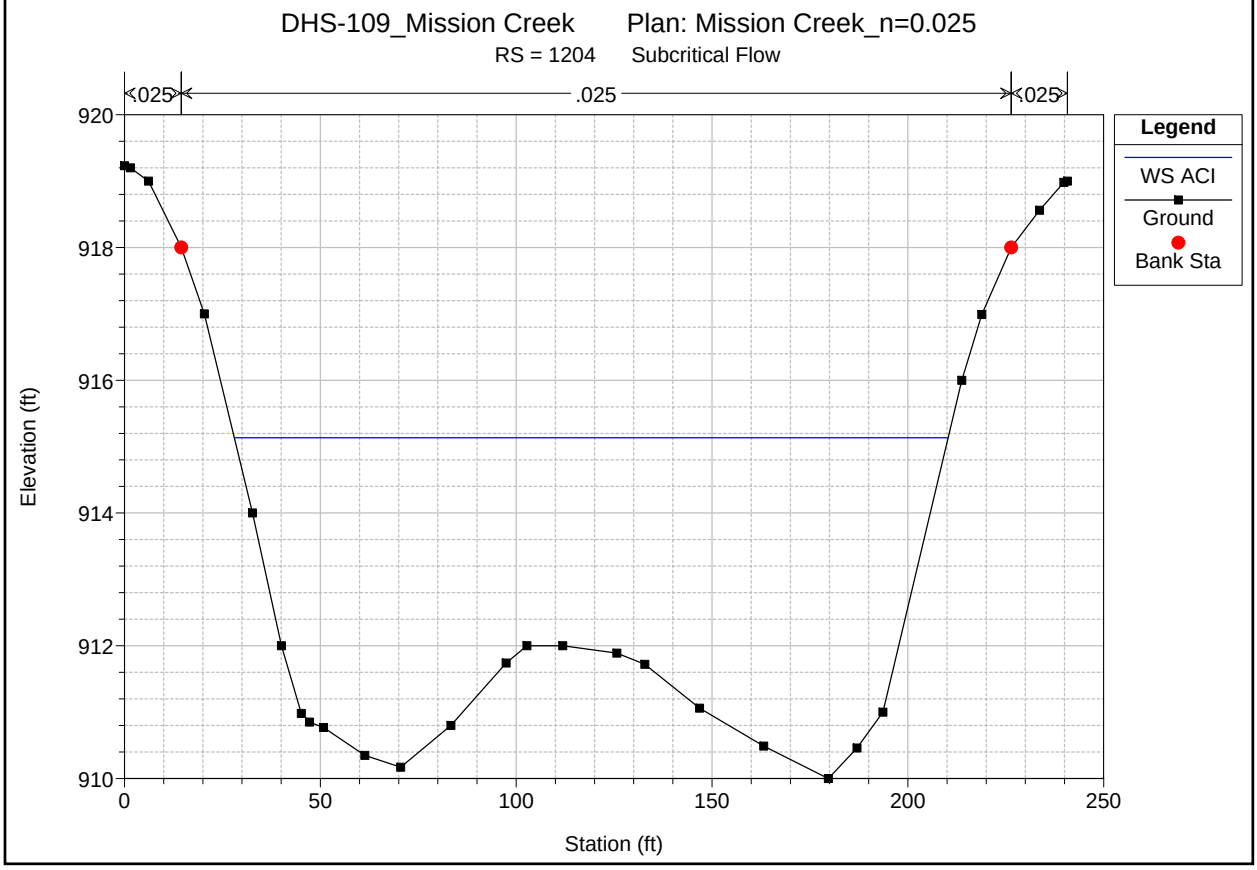

DHS-109_Mission Creek Plan: Mission Creek_n=0.025
RS = 3064 Subcritical Flow
.025
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
955
954
953
952
951
950
949
948
0
50
100
150
200
250
300
350
400
DHS-109_Mission Creek Plan: Mission Creek_n=0.025
RS = 2986 Subcritical Flow
.025
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
954
953
952
951
950
949
948
947
946
0
100
200
300
400

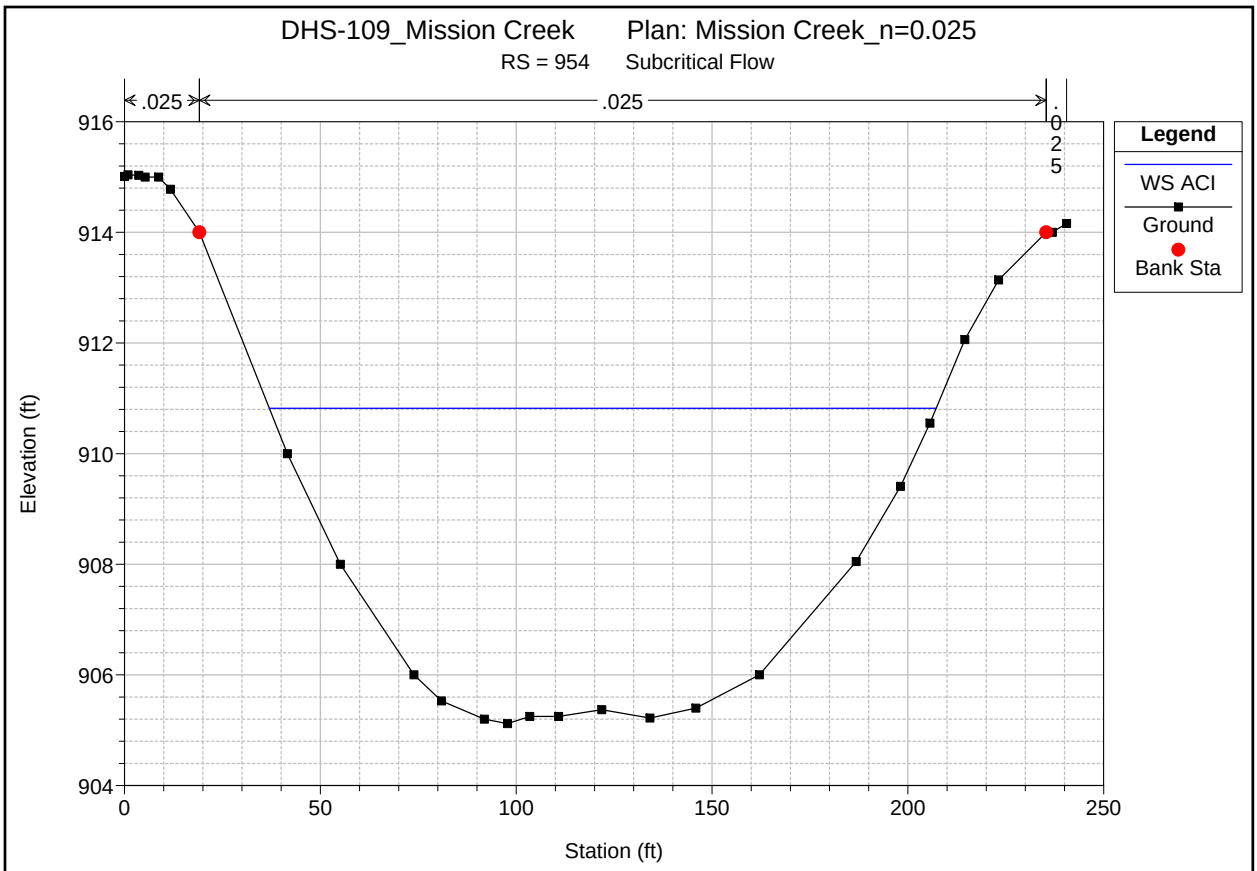

DHS-109_Mission Creek Plan: Mission Creek_n=0.025
RS = 2907 Subcritical Flow
.025
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
953
952
951
950
949
948
947
946
945
0
100
200
300
400
DHS-109_Mission Creek Plan: Mission Creek_n=0.025
RS = 2665 Subcritical Flow
.025
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
948
947
946
945
944
943
942
941
940
0
50
100
150
200
250
300
350

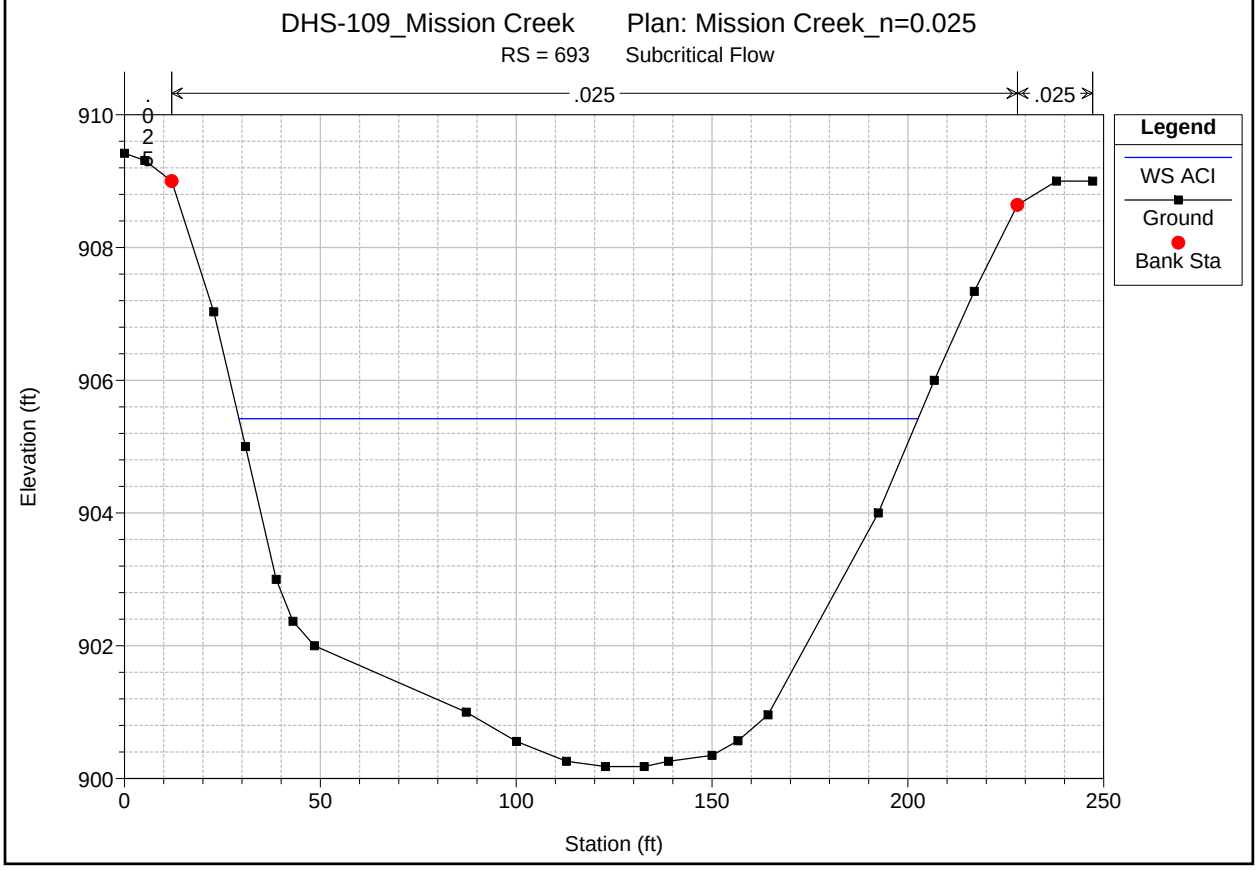

DHS-109_Mission Creek Plan: Mission Creek_n=0.025
RS = 2425 Subcritical Flow
.025
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
942
941
940
939
938
937
936
935
0
50
100
150
200
250
DHS-109_Mission Creek Plan: Mission Creek_n=0.025
RS = 2180 Subcritical Flow
.025
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
940
938
936
934
932
930
0
50
100
150
200
250

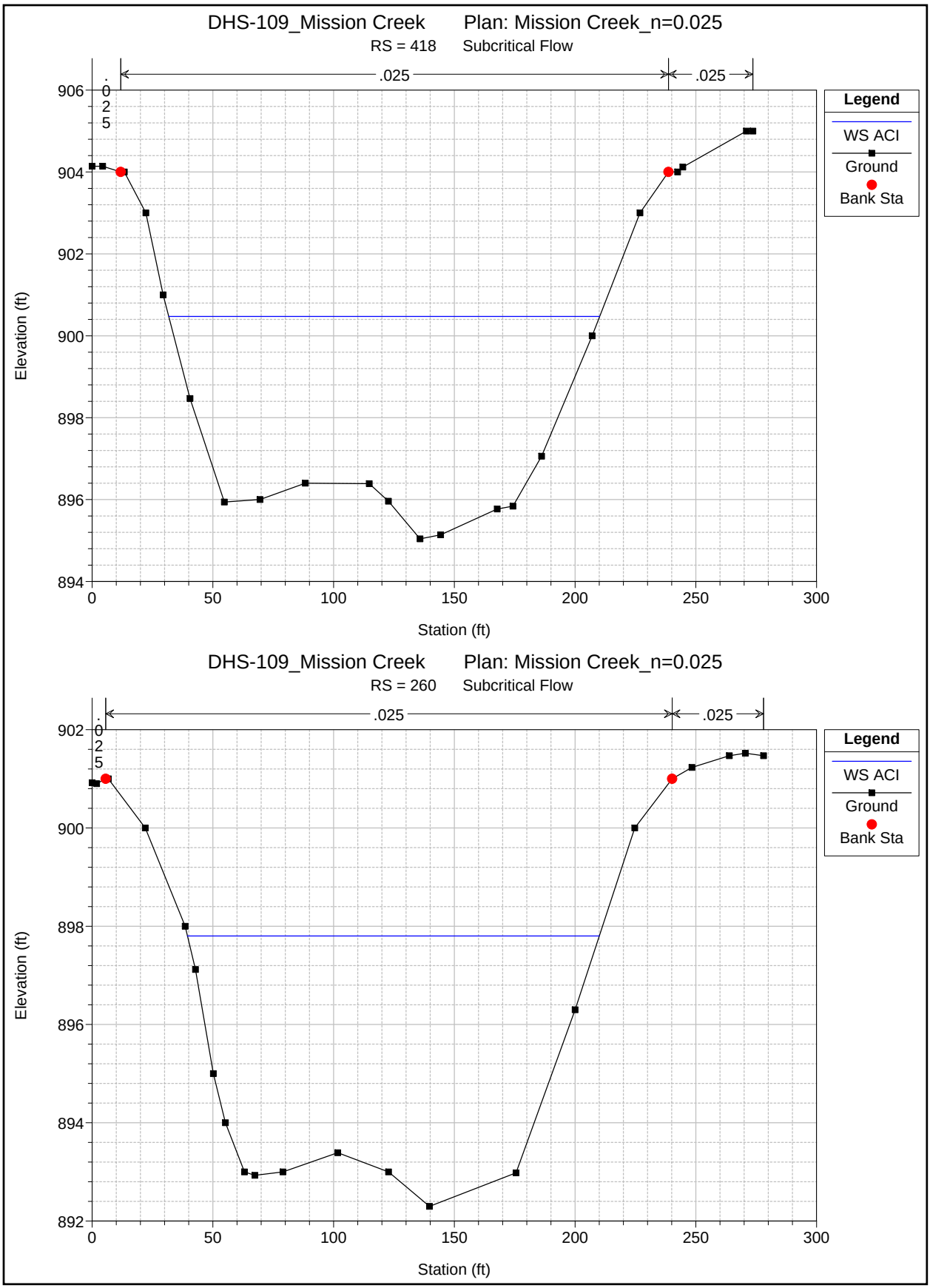

DHS-109_Mission Creek Plan: Mission Creek_n=0.025
RS = 1927 Subcritical Flow
.025
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
934
932
930
928
926
924
0
50
100
150
200
250
DHS-109_Mission Creek Plan: Mission Creek_n=0.025
RS = 1686 Subcritical Flow
.025
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
930
928
926
924
922
920
0
50
100
150
200
250

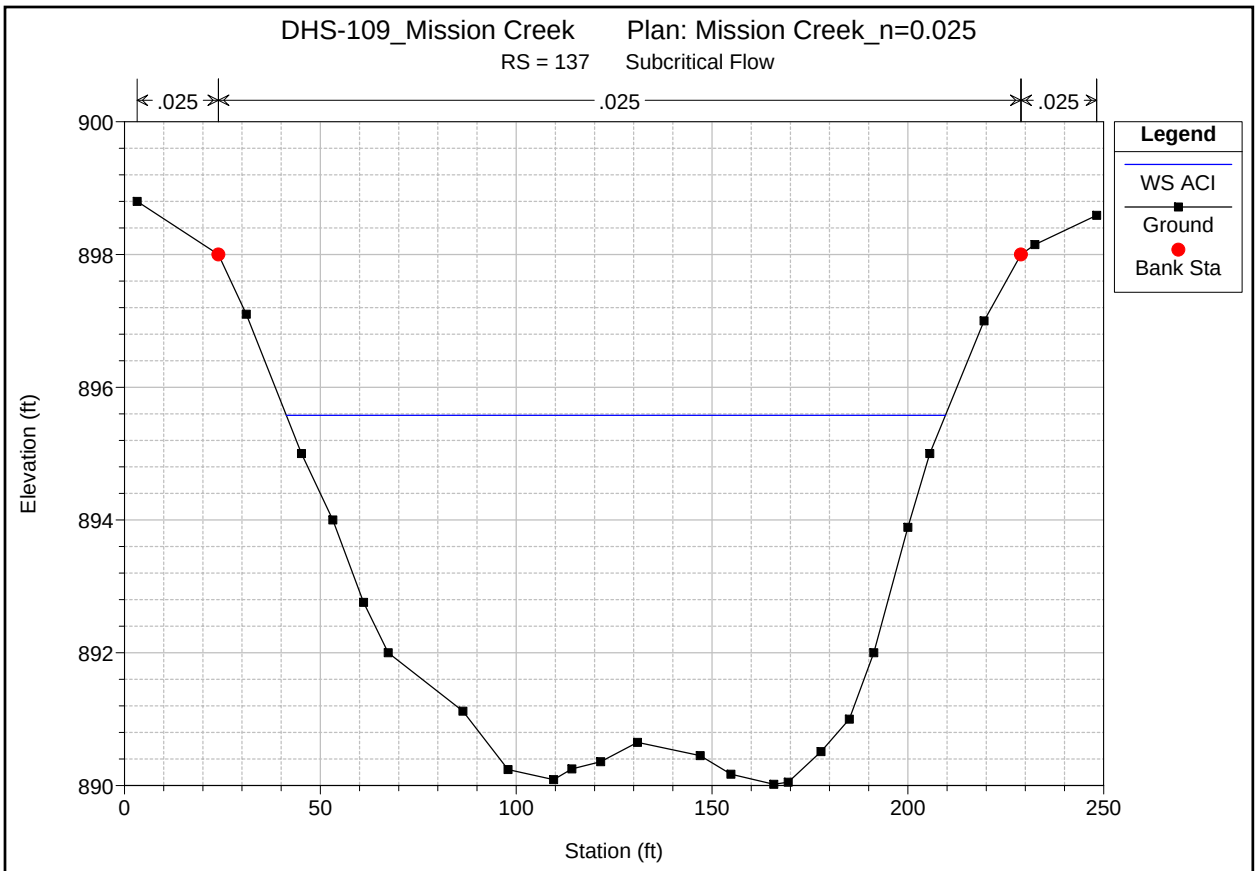

DHS-109_Mission Creek Plan: Mission Creek_n=0.025
RS = 1460 Subcritical Flow
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
926
924
922
920
918
916
914
0
50
100
150
200
250
Station (ft)

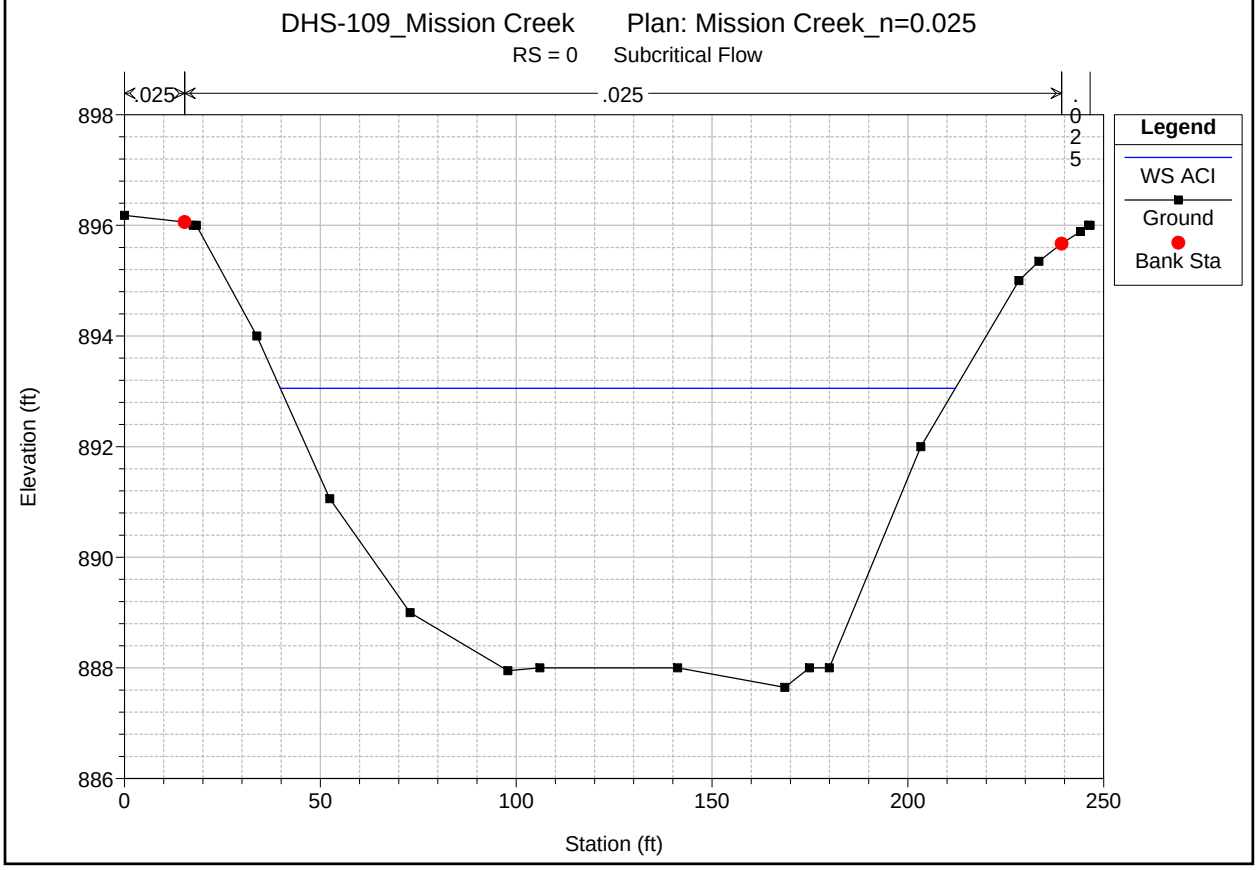

DHS-109_Mission Creek Plan: Mission Creek_n=0.025
RS = 1204 Subcritical Flow
.025
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
920
918
916
914
912
910
0
50
100
150
200
250
Station (ft)

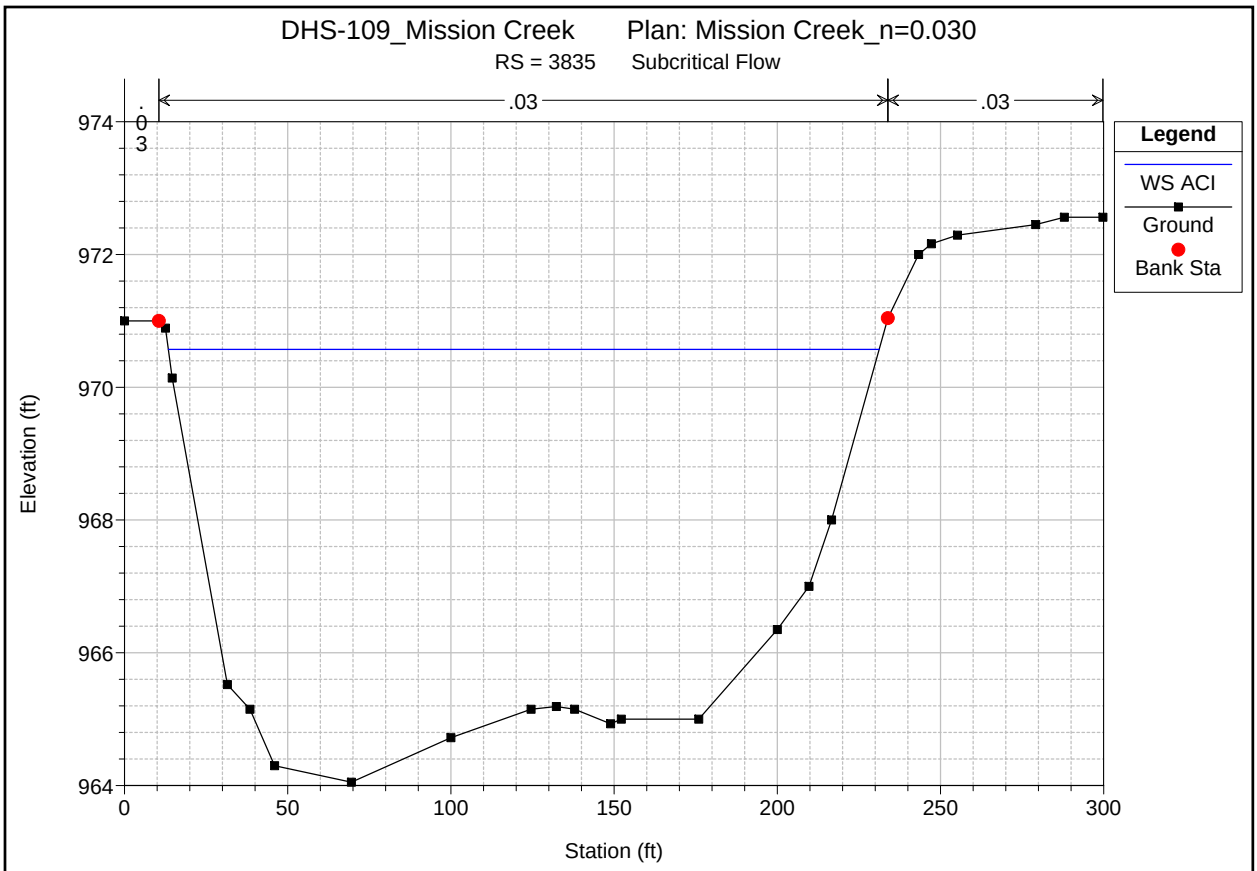

DHS-109_Mission Creek
Plan: Mission Creek_n=0.025
RS = 954
Subcritical Flow
.025
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
916
914
912
910
908
906
904
0
50
100
150
200
250

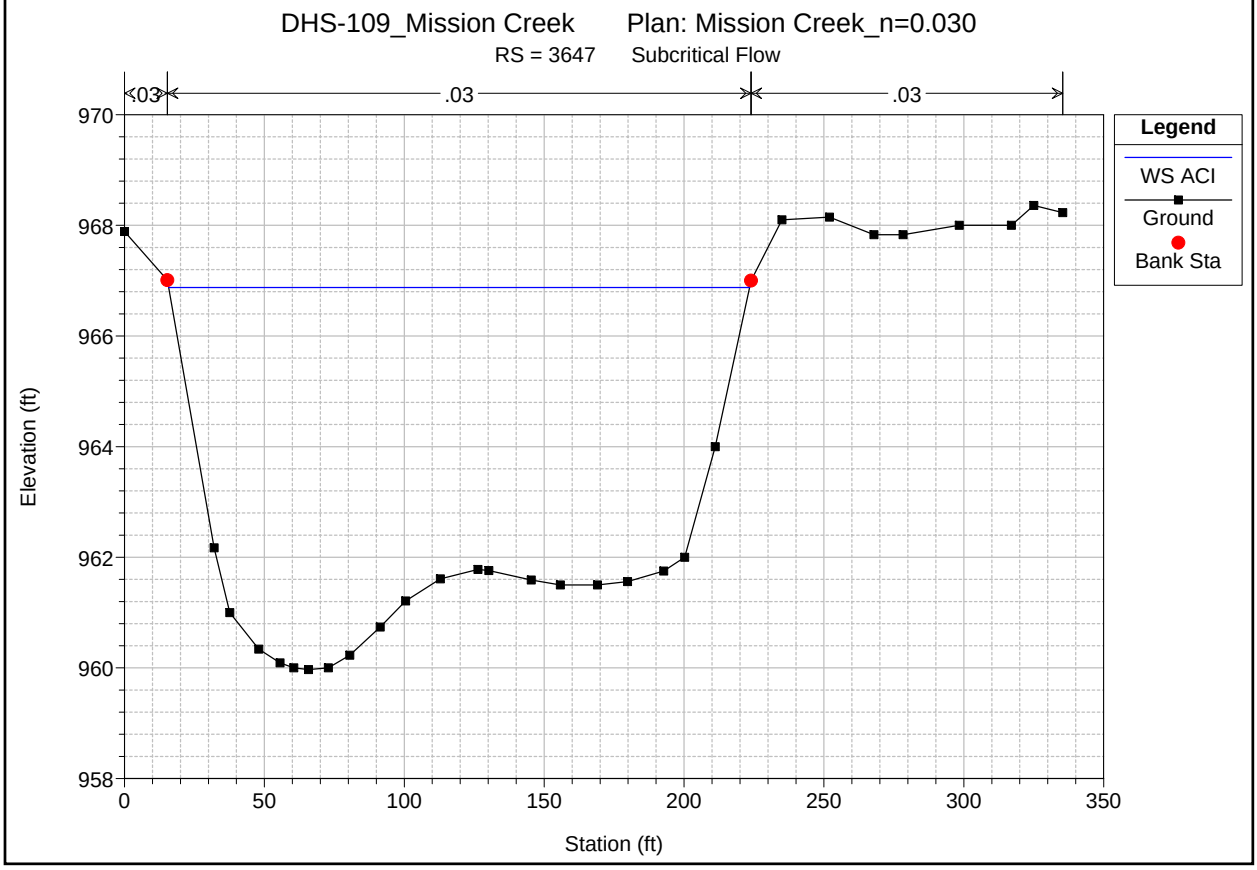

DHS-109_Mission Creek
Plan: Mission Creek_n=0.025
RS = 693
Subcritical Flow
.025
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
910
908
906
904
902
900
0
50
100
150
200
250

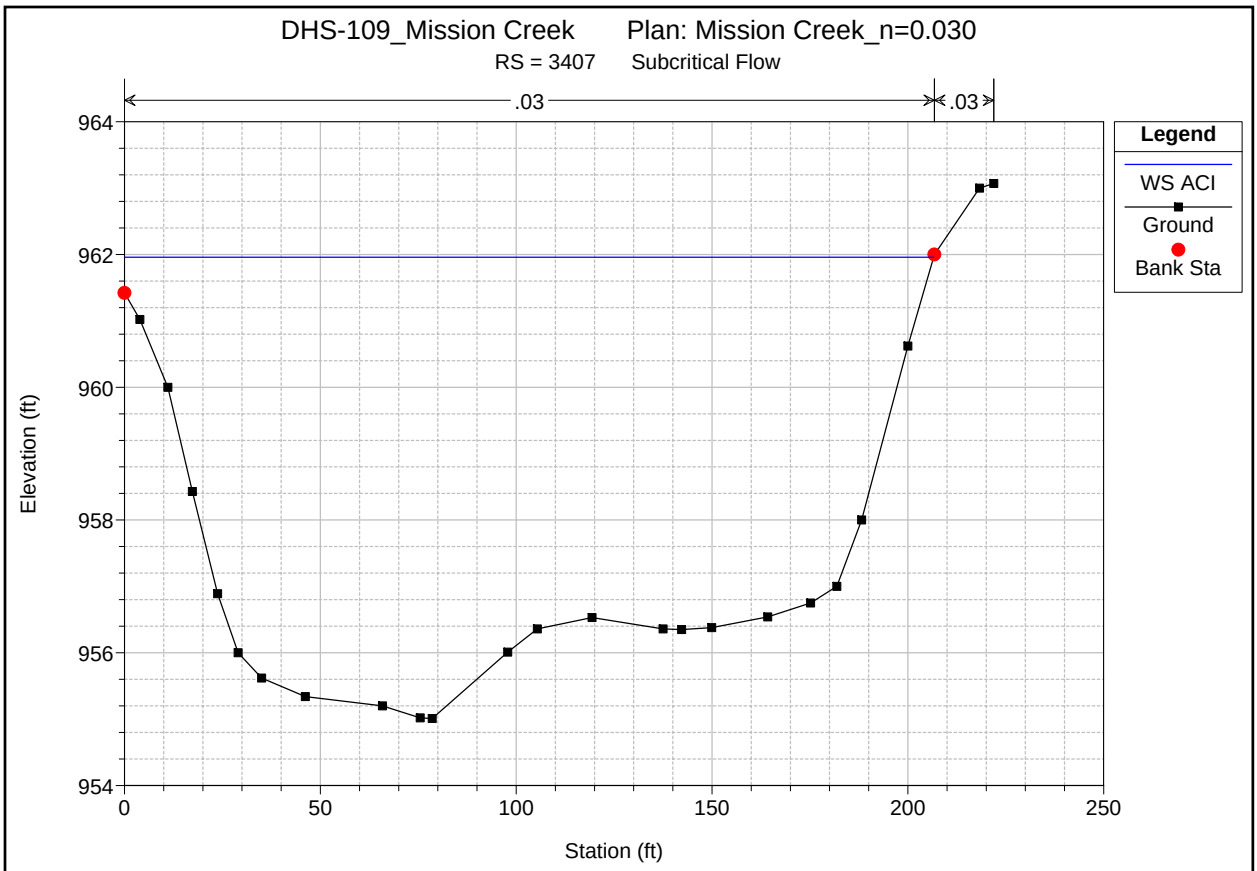

DHS-109_Mission Creek
Plan: Mission Creek_n=0.025
RS = 418
Subcritical Flow
.025
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
906
904
902
900
898
896
894
0
50
100
150
200
250
300
DHS-109_Mission Creek
Plan: Mission Creek_n=0.025
RS = 260
Subcritical Flow
.025
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
902
900
898
896
894
892
0
50
100
150
200
250
300

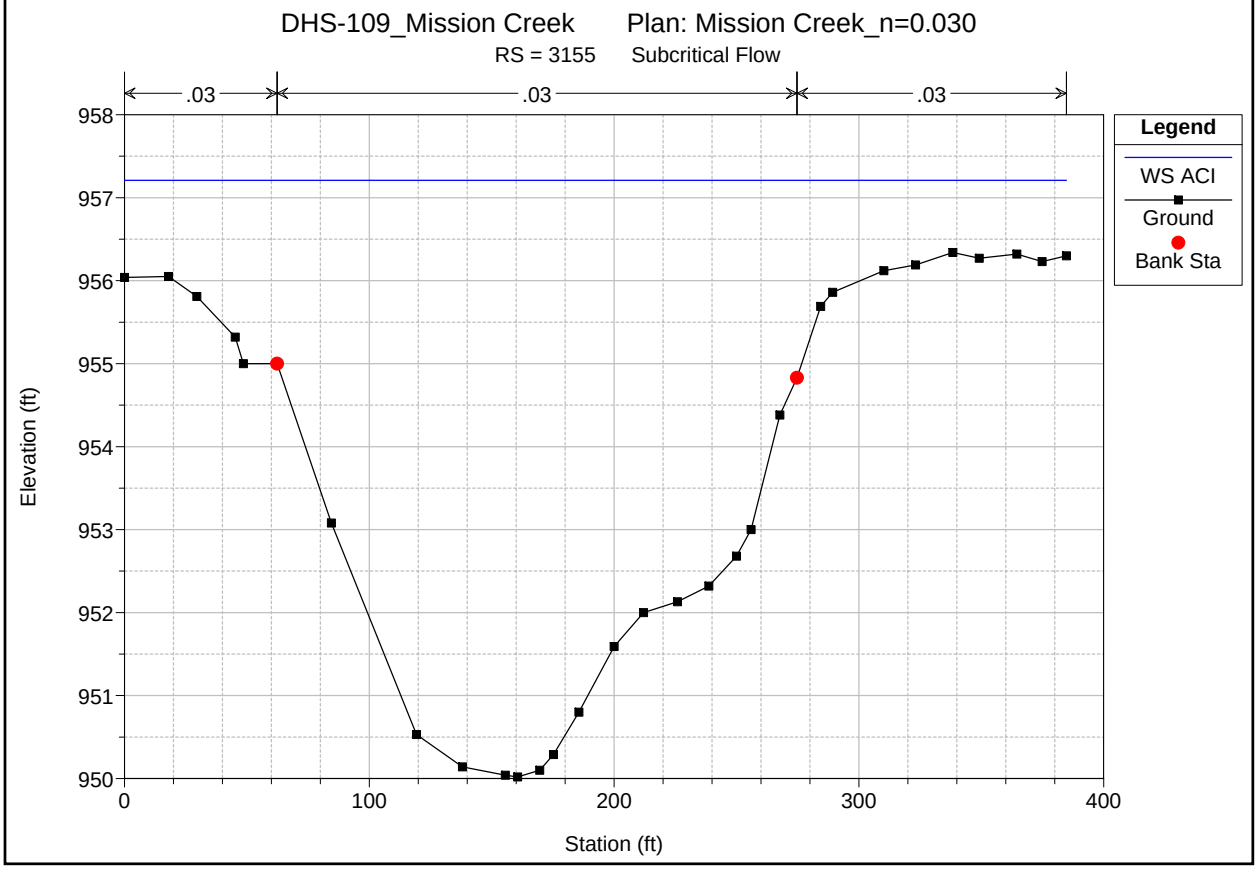

DHS-109_Mission Creek Plan: Mission Creek_n=0.025
RS = 137 Subcritical Flow
.025
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
900
898
896
894
892
890
0
50
100
150
200
250
Station (ft)

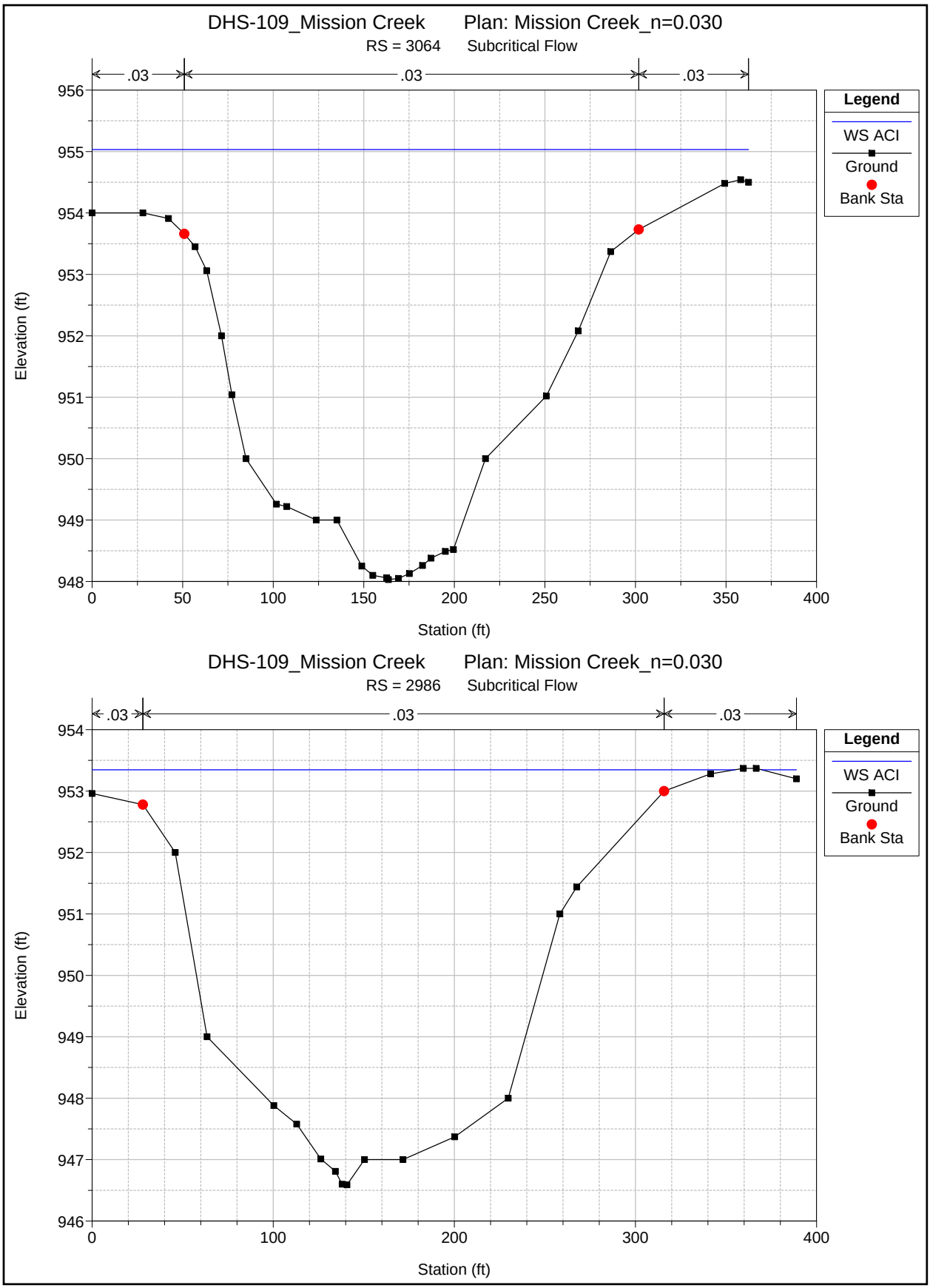

DHS-109_Mission Creek Plan: Mission Creek_n=0.025
RS = 0 Subcritical Flow
.025
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
898
896
894
892
890
888
886
0
50
100
150
200
250
Station (ft)

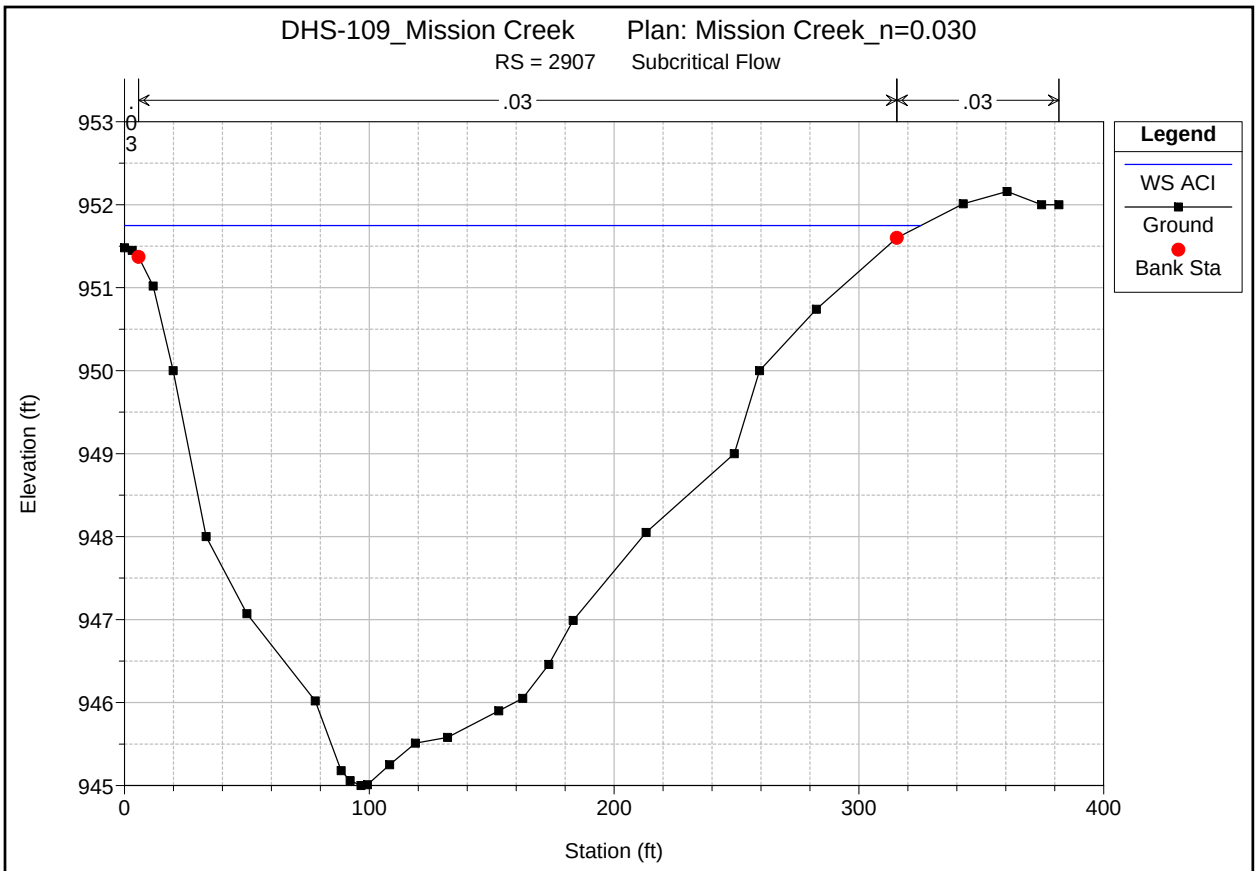

DHS-109_Mission Creek Plan: Mission Creek_n=0.030
RS = 3835 Subcritical Flow
.03
.03
.03
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
974
972
970
968
966
964
0
50
100
150
200
250
300

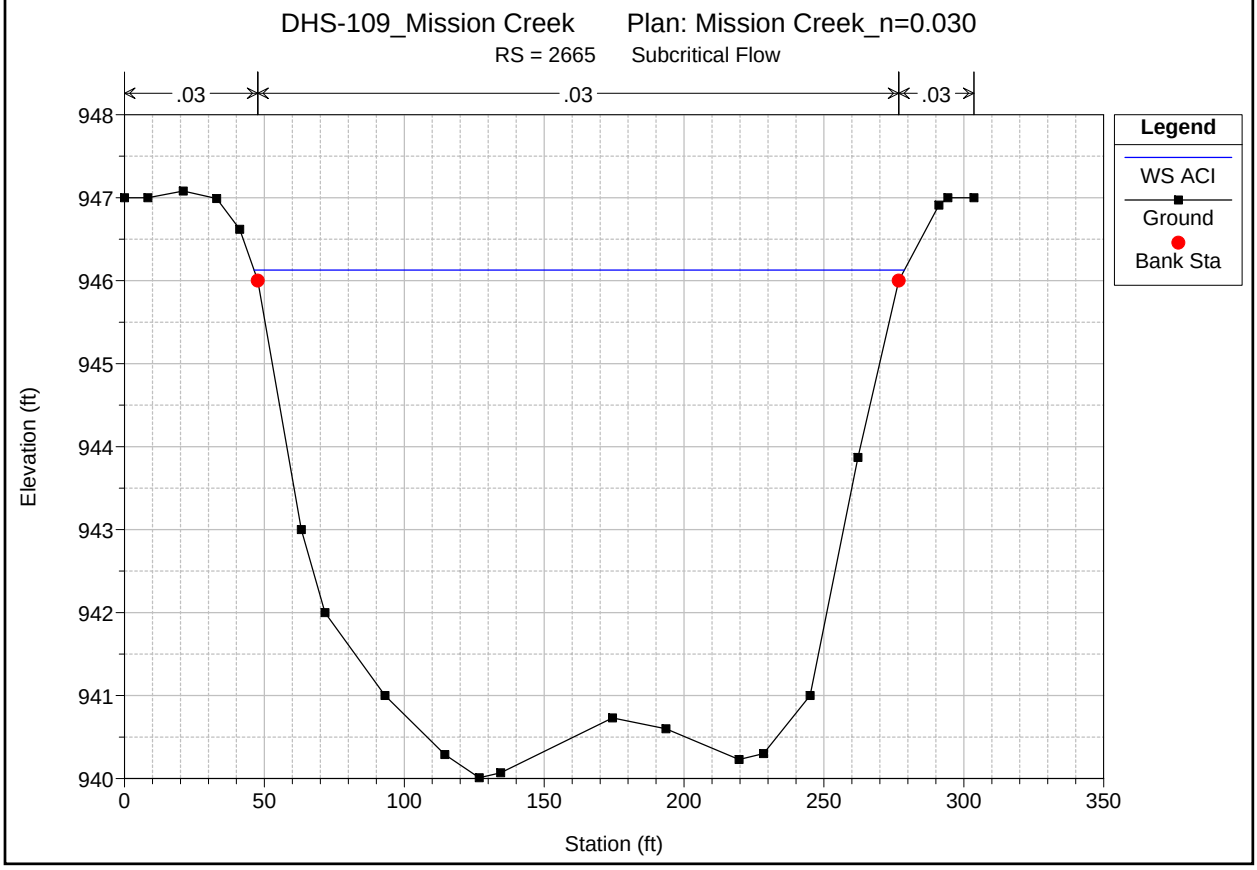

DHS-109_Mission Creek Plan: Mission Creek_n=0.030
RS = 3647 Subcritical Flow
.03
.03
.03
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
970
968
966
964
962
960
958
0
50
100
150
200
250
300
350

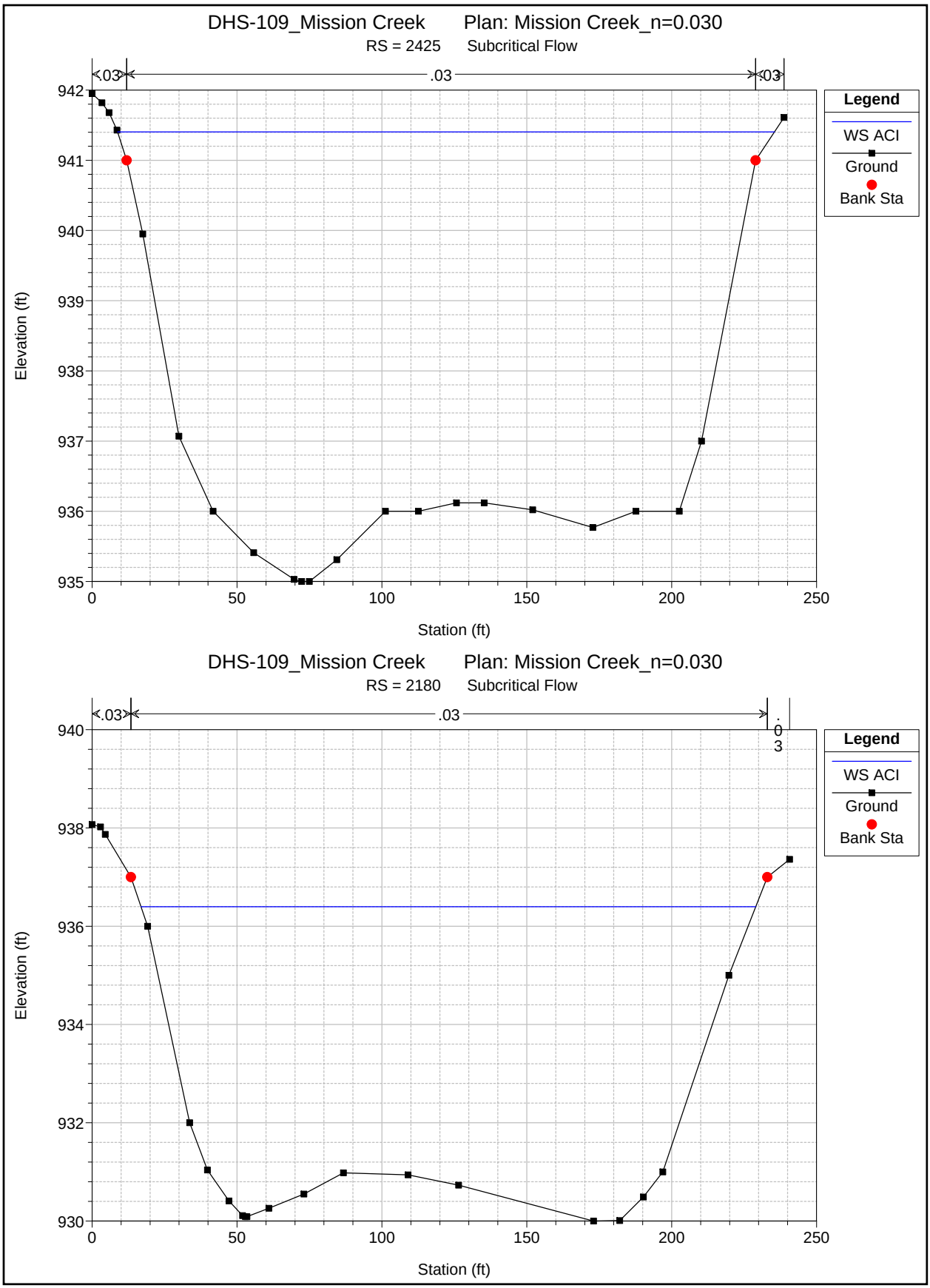

DHS-109_Mission Creek Plan: Mission Creek_n=0.030
RS = 3407 Subcritical Flow
.03
.03
964
962
960
958
956
954
Elevation (ft)
0
50
100
150
200
250
Station (ft)
Legend
WS ACI
Ground
Bank Sta

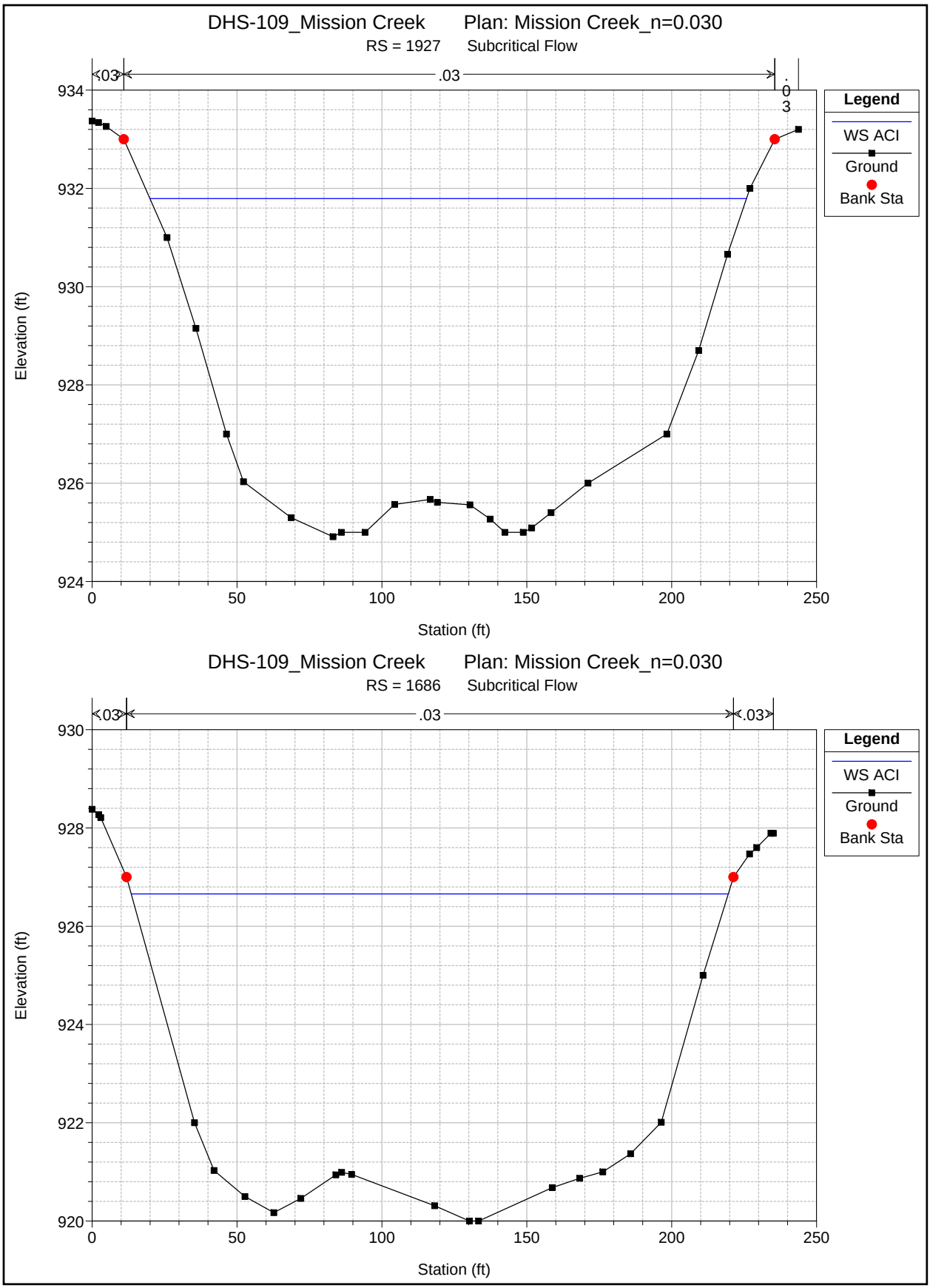

DHS-109_Mission Creek Plan: Mission Creek_n=0.030
RS = 3155 Subcritical Flow
.03
.03
.03
958
957
956
955
954
953
952
951
950
Elevation (ft)
0
100
200
300
400
Station (ft)
Legend
WS ACI
Ground
Bank Sta

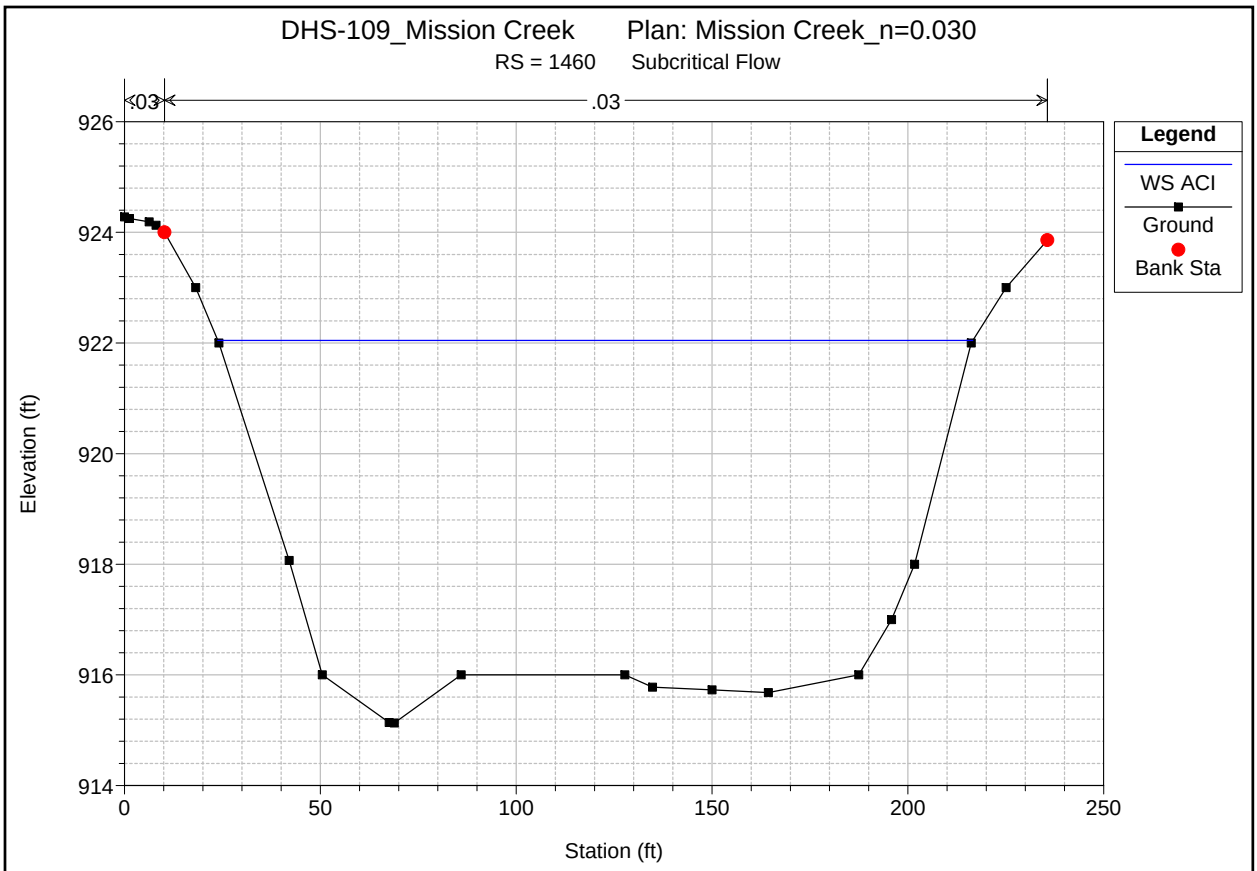

DHS-109_Mission Creek Plan: Mission Creek_n=0.030
RS = 3064 Subcritical Flow
.03
.03
.03
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
956
955
954
953
952
951
950
949
948
0
50
100
150
200
250
300
350
400
DHS-109_Mission Creek Plan: Mission Creek_n=0.030
RS = 2986 Subcritical Flow
.03
.03
.03
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
954
953
952
951
950
949
948
947
946
0
100
200
300
400

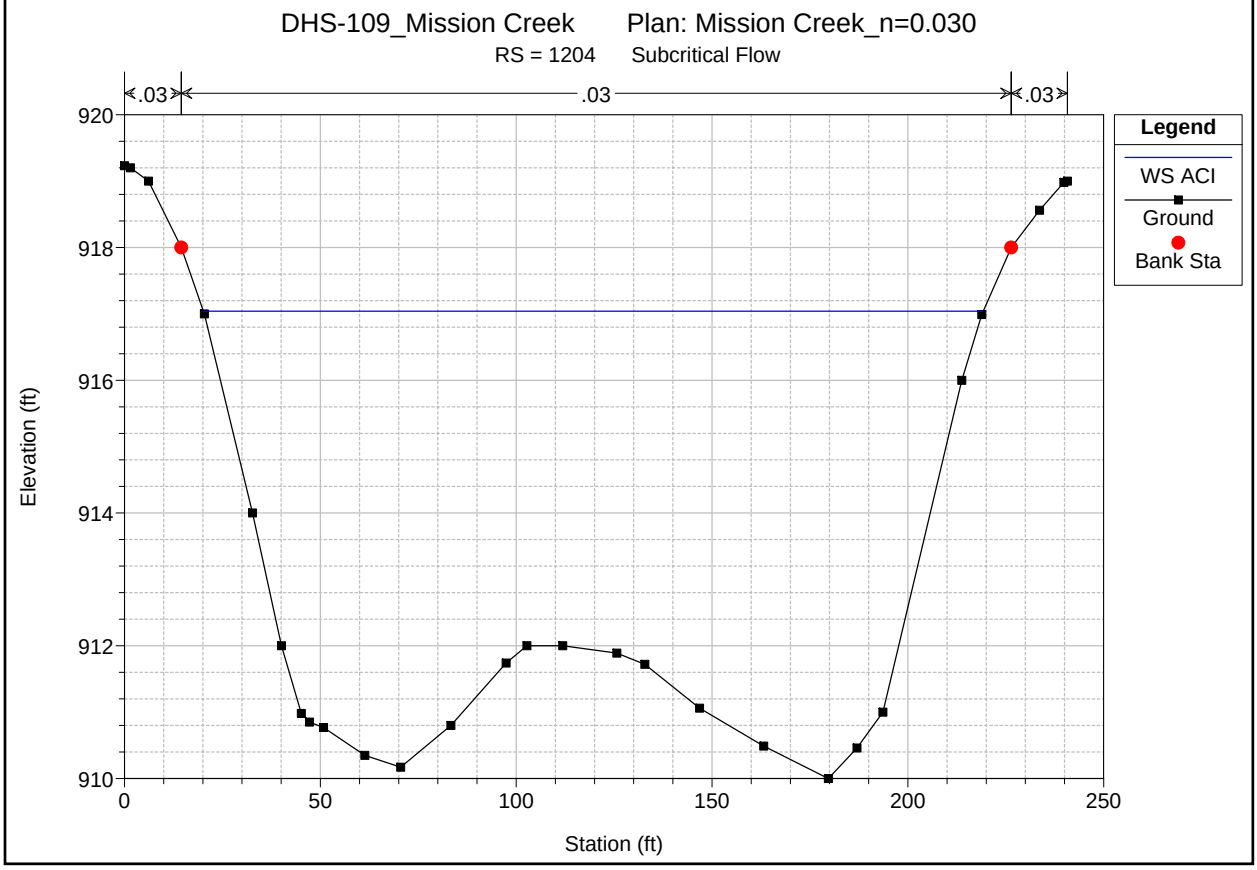

DHS-109_Mission Creek Plan: Mission Creek_n=0.030
RS = 2907 Subcritical Flow
.03
.03
.03
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
953
952
951
950
949
948
947
946
945
0
100
200
300
400

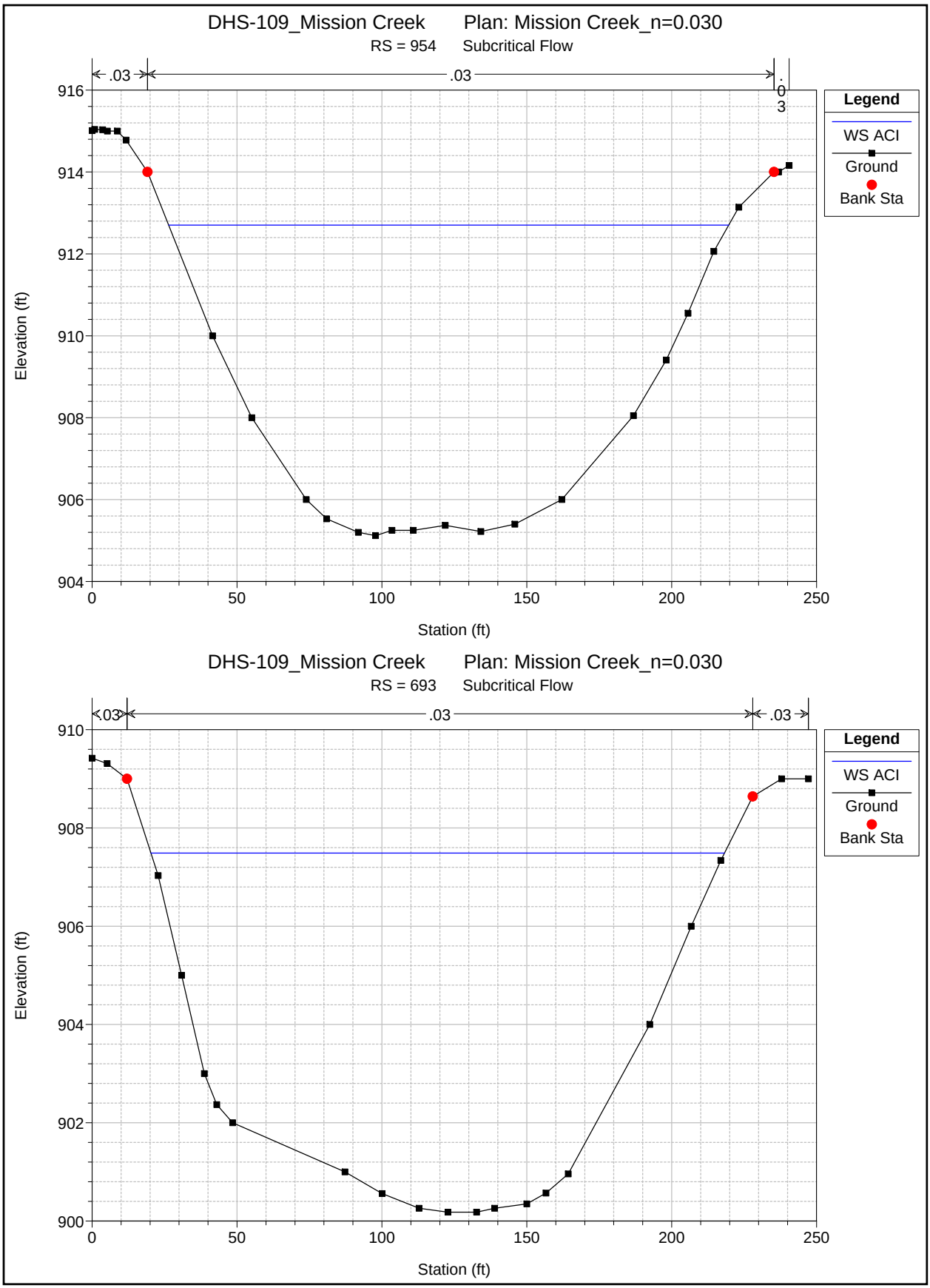

DHS-109_Mission Creek Plan: Mission Creek_n=0.030
RS = 2665 Subcritical Flow
.03
.03
.03
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
948
947
946
945
944
943
942
941
940
0
50
100
150
200
250
300
350

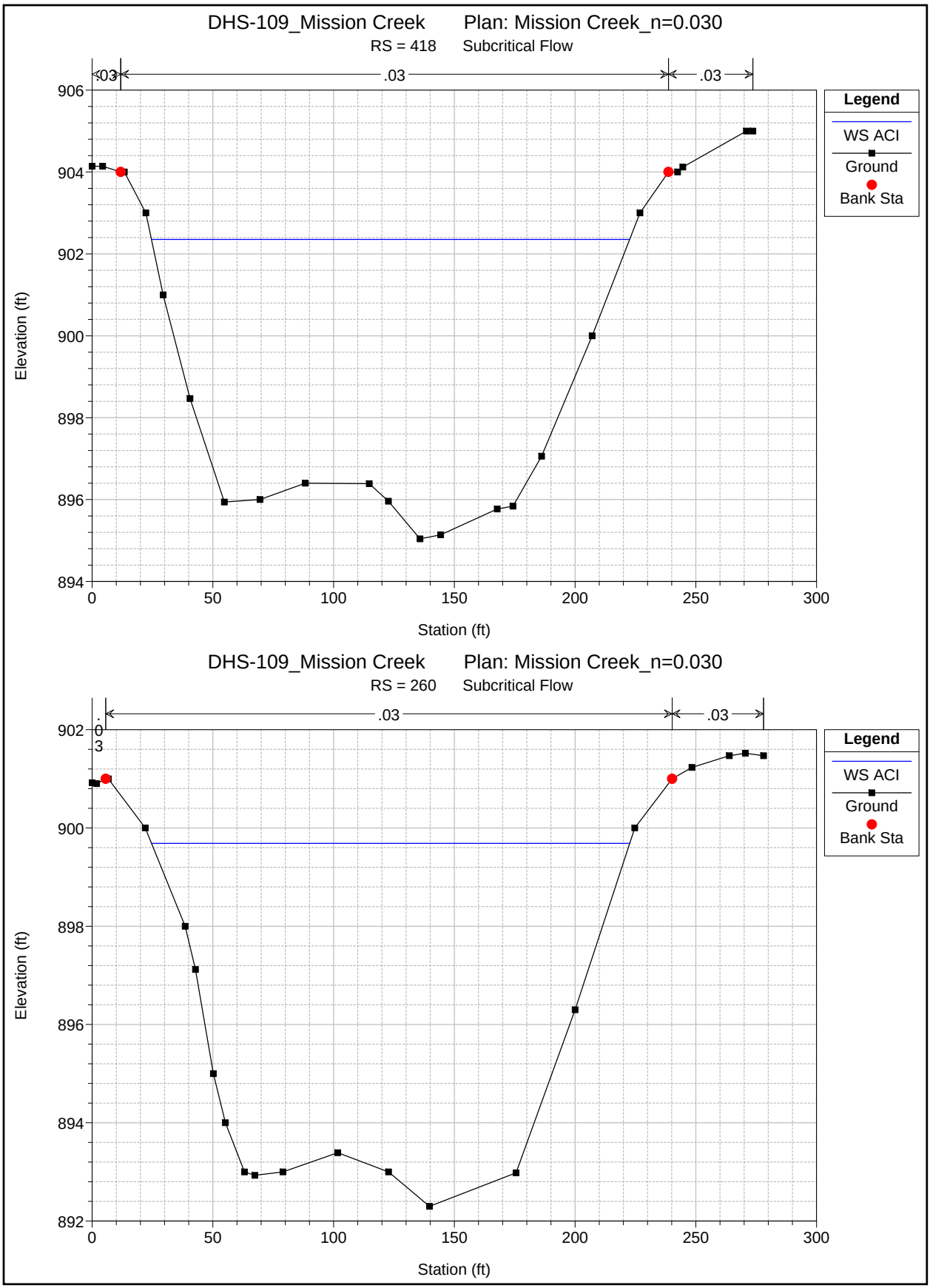

DHS-109_Mission Creek Plan: Mission Creek_n=0.030
RS = 2425 Subcritical Flow
.03
.03
.03
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
942
941
940
939
938
937
936
935
0
50
100
150
200
250
DHS-109_Mission Creek Plan: Mission Creek_n=0.030
RS = 2180 Subcritical Flow
.03
.03
.03
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
940
938
936
934
932
930
0
50
100
150
200
250

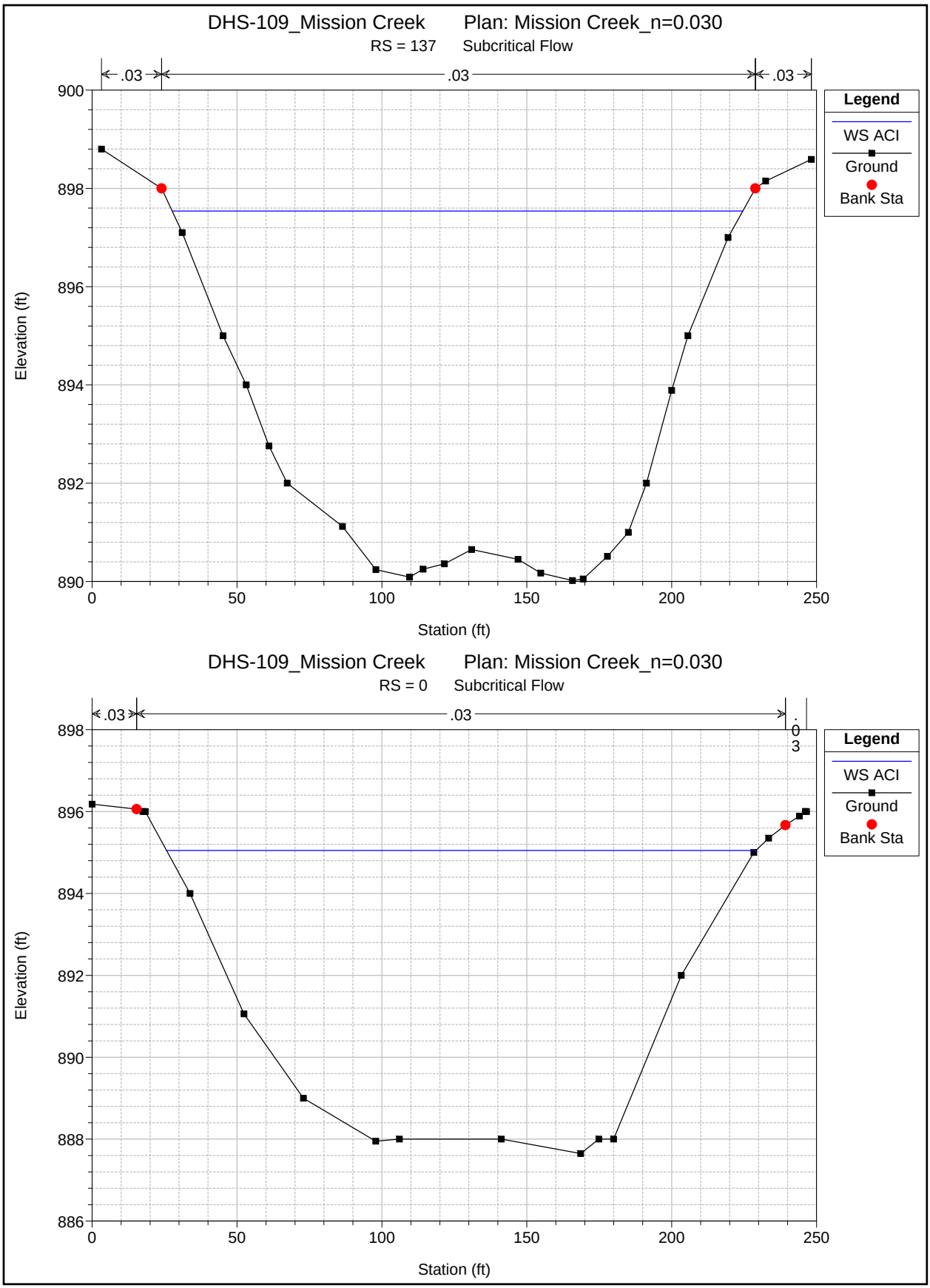

DHS-109_Mission Creek Plan: Mission Creek_n=0.030
RS = 1927 Subcritical Flow
.03
.03
.03
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
934
932
930
928
926
924
0
50
100
150
200
250
DHS-109_Mission Creek Plan: Mission Creek_n=0.030
RS = 1686 Subcritical Flow
.03
.03
.03
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
930
928
926
924
922
920
0
50
100
150
200
250

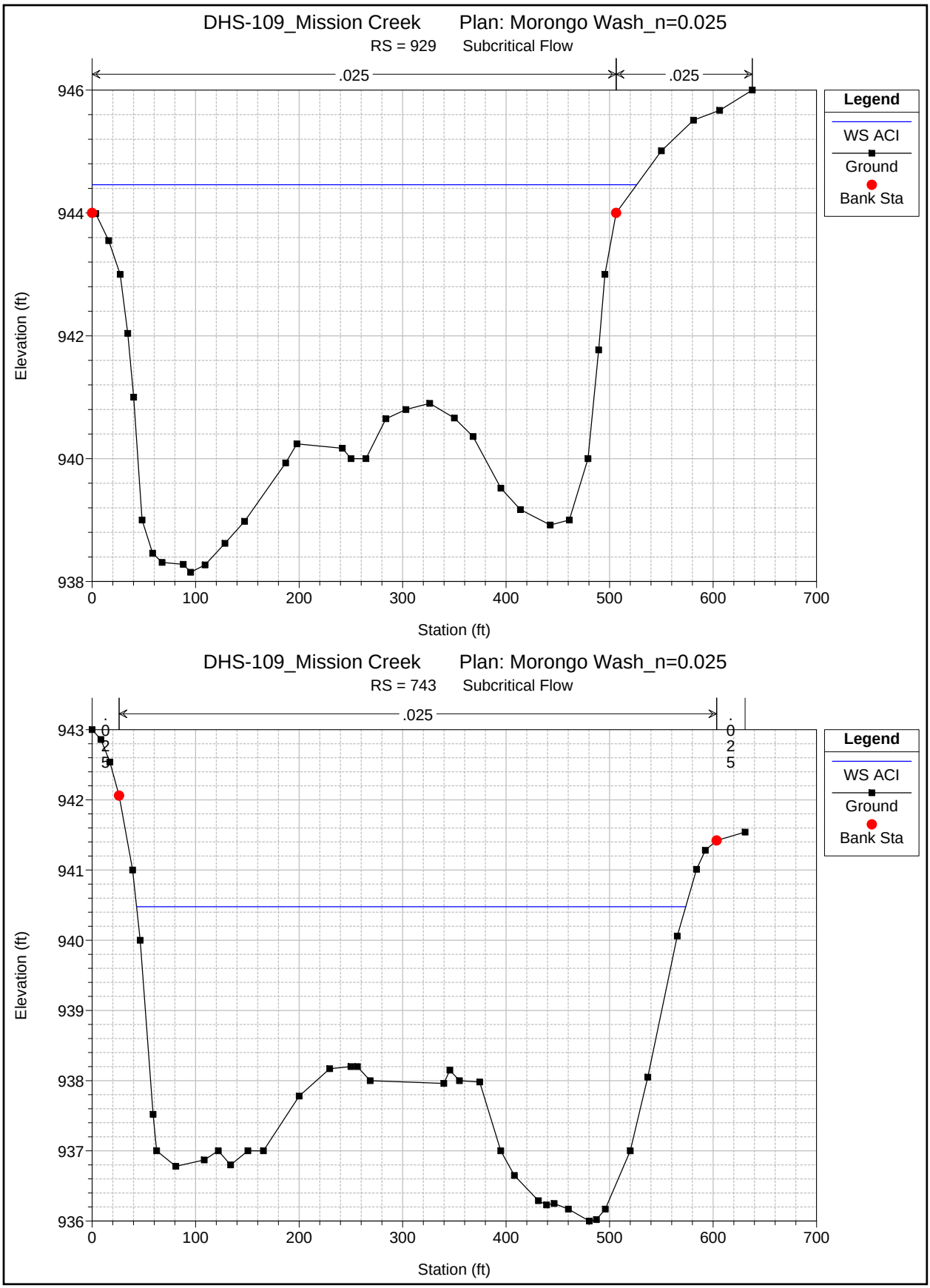

DHS-109_Mission Creek Plan: Mission Creek_n=0.030
RS = 1460 Subcritical Flow
.03
.03
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
926
924
922
920
918
916
914
0
50
100
150
200
250
Station (ft)

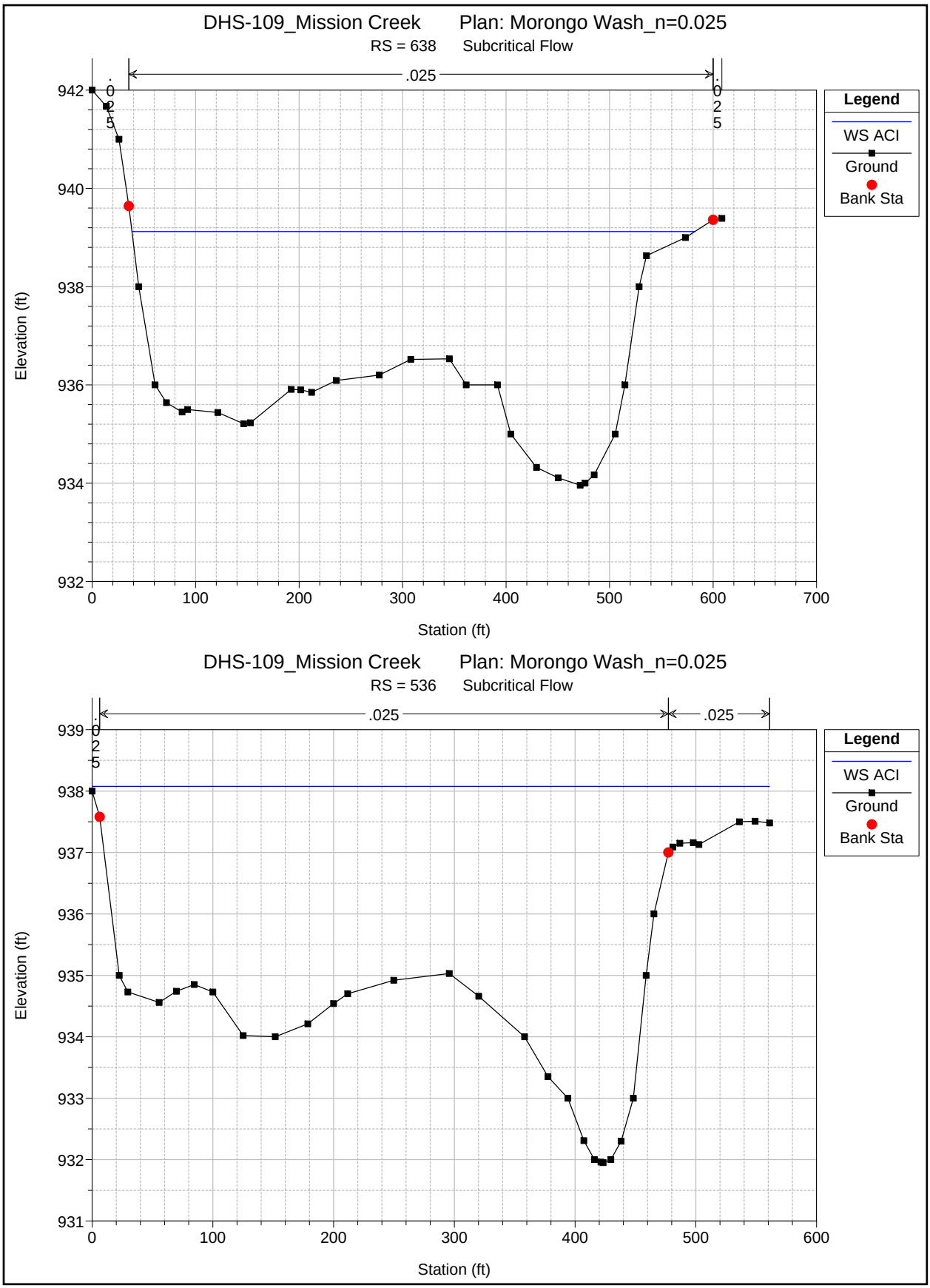

DHS-109_Mission Creek Plan: Mission Creek_n=0.030
RS = 1204 Subcritical Flow
.03
.03
.03
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
920
918
916
914
912
910
0
50
100
150
200
250
Station (ft)

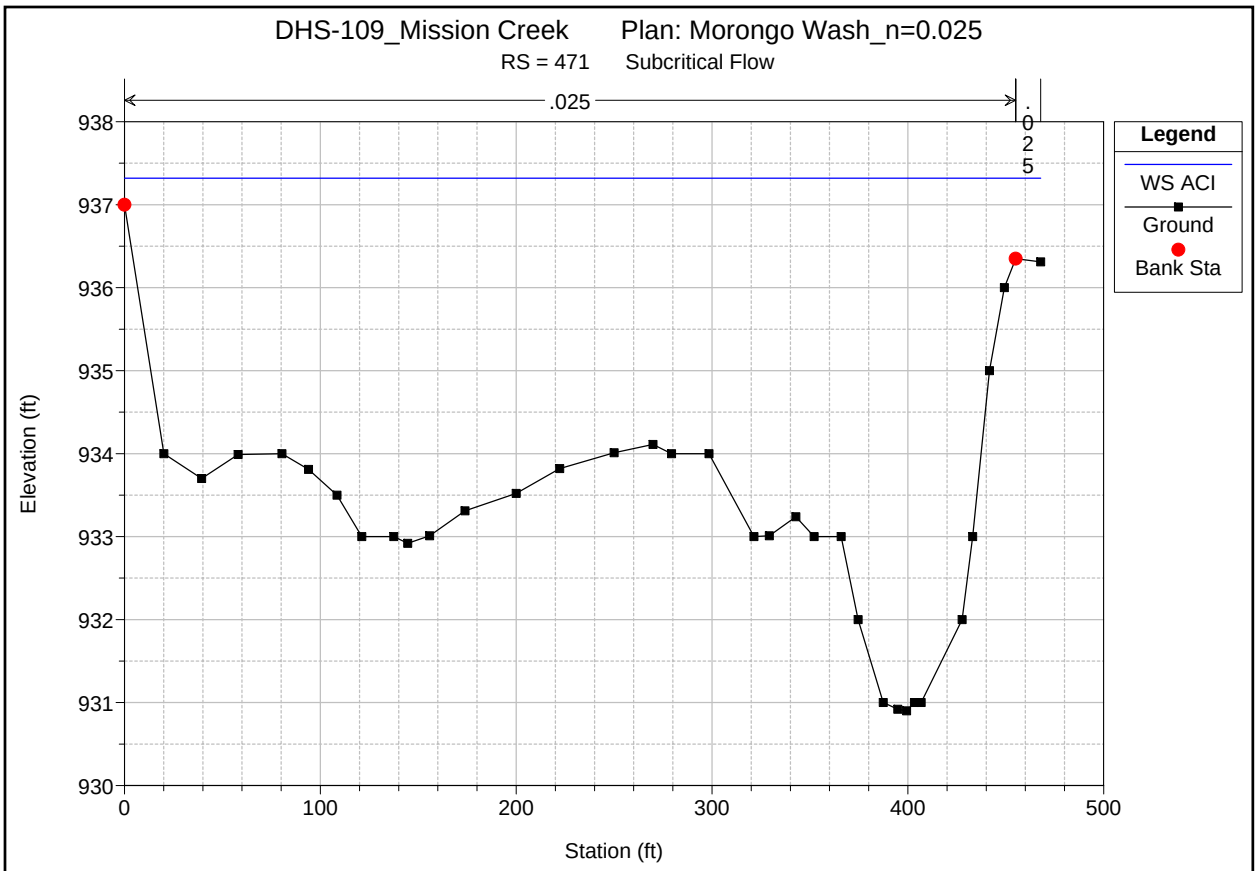

DHS-109_Mission Creek
Plan: Mission Creek_n=0.030
RS = 954
Subcritical Flow
.03
.03
.03
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
916
914
912
910
908
906
904
0
50
100
150
200
250
Station (ft)
DHS-109_Mission Creek
Plan: Mission Creek_n=0.030
RS = 693
Subcritical Flow
.03
.03
.03
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
910
908
906
904
902
900
0
50
100
150
200
250
Station (ft)

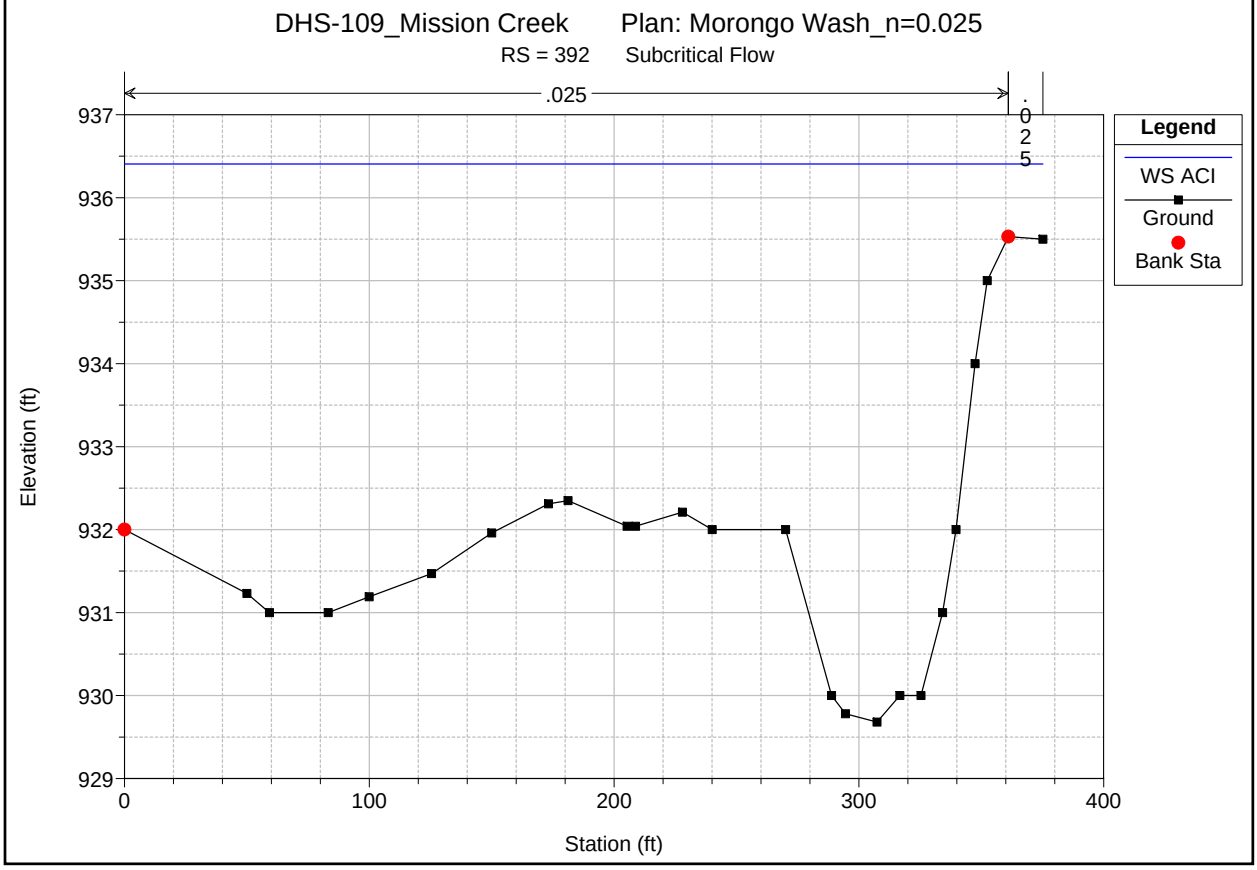

DHS-109_Mission Creek
Plan: Mission Creek_n=0.030
RS = 418
Subcritical Flow
.03
.03
.03
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
906
904
902
900
898
896
894
0
50
100
150
200
250
300
DHS-109_Mission Creek
Plan: Mission Creek_n=0.030
RS = 260
Subcritical Flow
.03
.03
.03
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
902
900
898
896
894
892
0
50
100
150
200
250
300

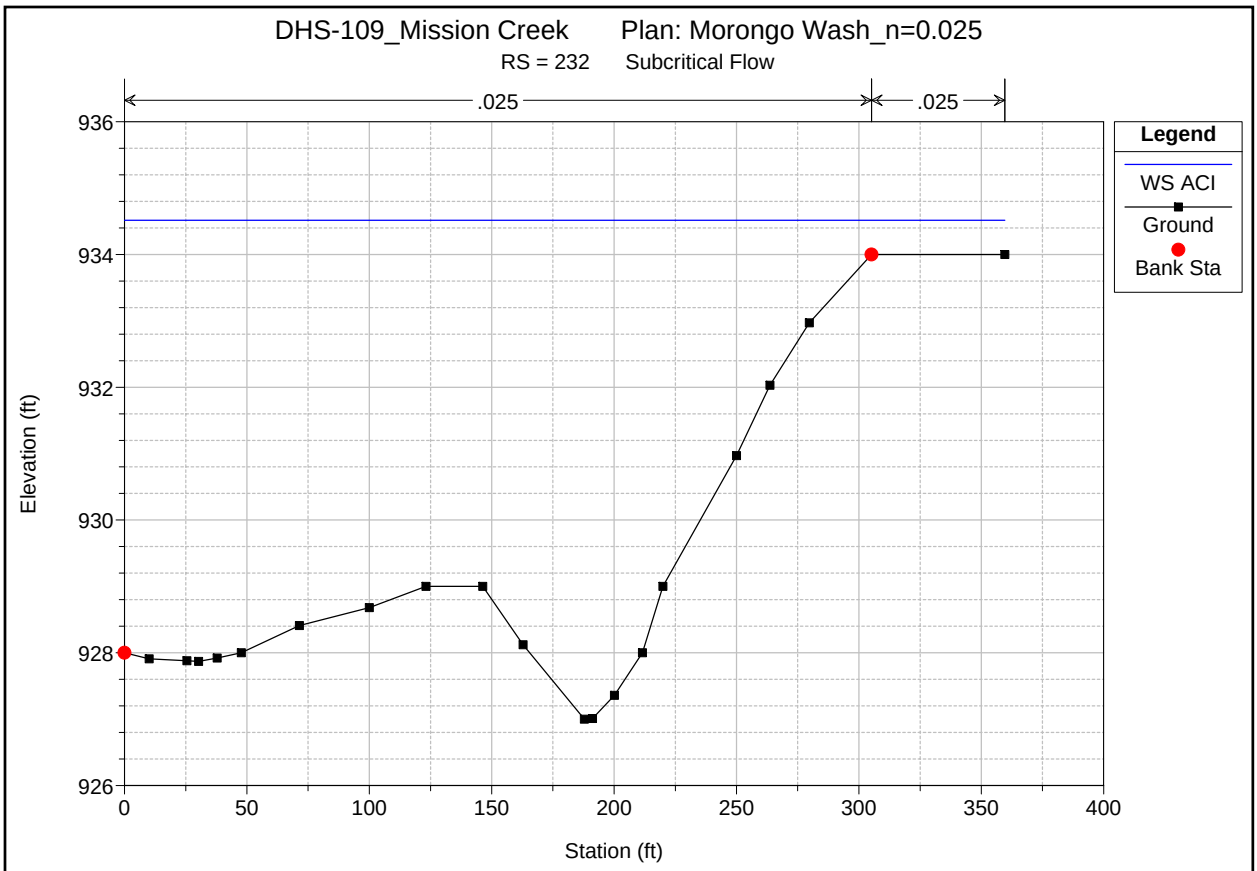

DHS-109_Mission Creek Plan: Mission Creek_n=0.030
RS = 137 Subcritical Flow
.03
.03
.03
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
900
898
896
894
892
890
0
50
100
150
200
250
DHS-109_Mission Creek Plan: Mission Creek_n=0.030
RS = 0 Subcritical Flow
.03
.03
.03
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
898
896
894
892
890
888
886
0
50
100
150
200
250

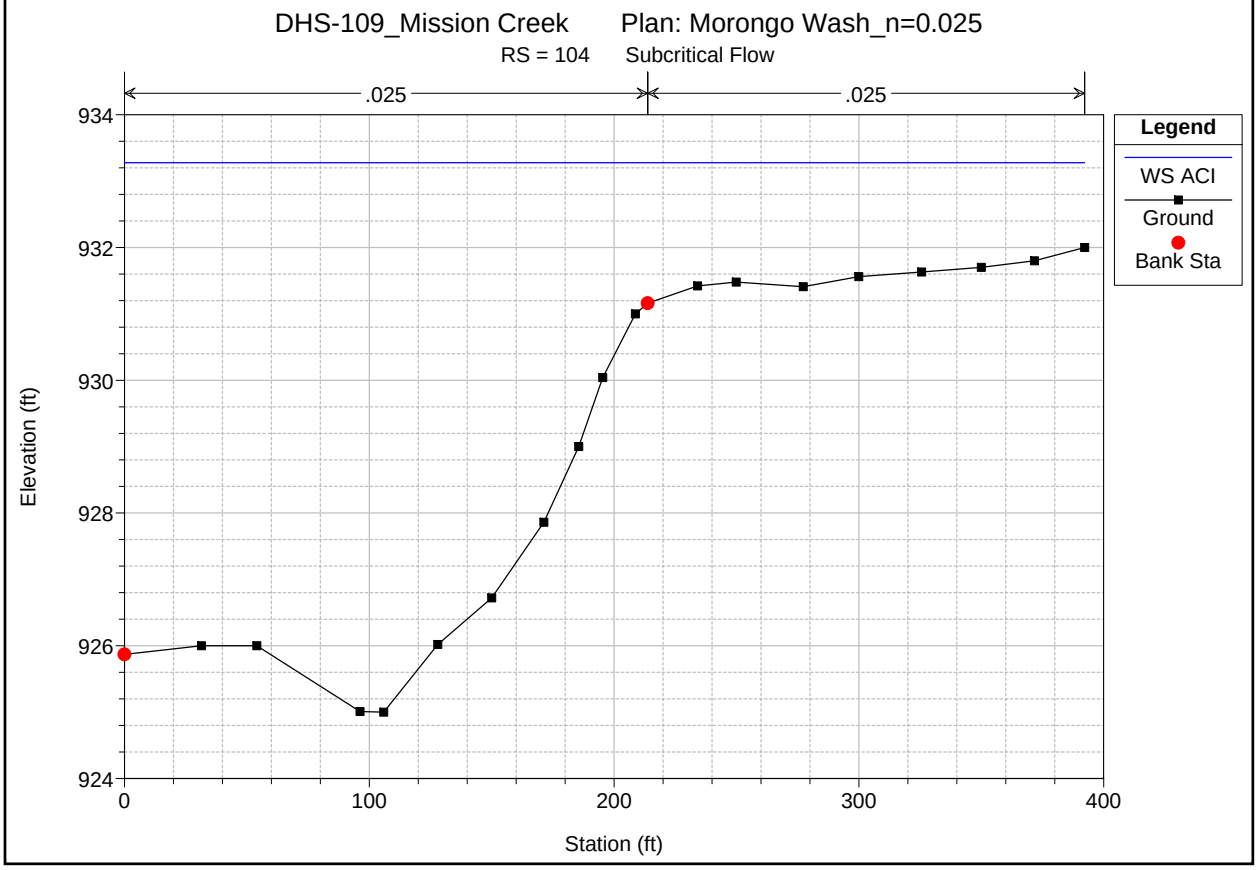

DHS-109_Mission Creek Plan: Morongo Wash_n=0.025
RS = 929 Subcritical Flow
.025
.025
946
944
942
940
938
Elevation (ft)
0
100
200
300
400
500
600
700
Station (ft)
Legend
WS ACI
Ground
Bank Sta
DHS-109_Mission Creek Plan: Morongo Wash_n=0.025
RS = 743 Subcritical Flow
.025
.025
943
942
941
940
939
938
937
936
Elevation (ft)
0
100
200
300
400
500
600
700
Station (ft)
Legend
WS ACI
Ground
Bank Sta

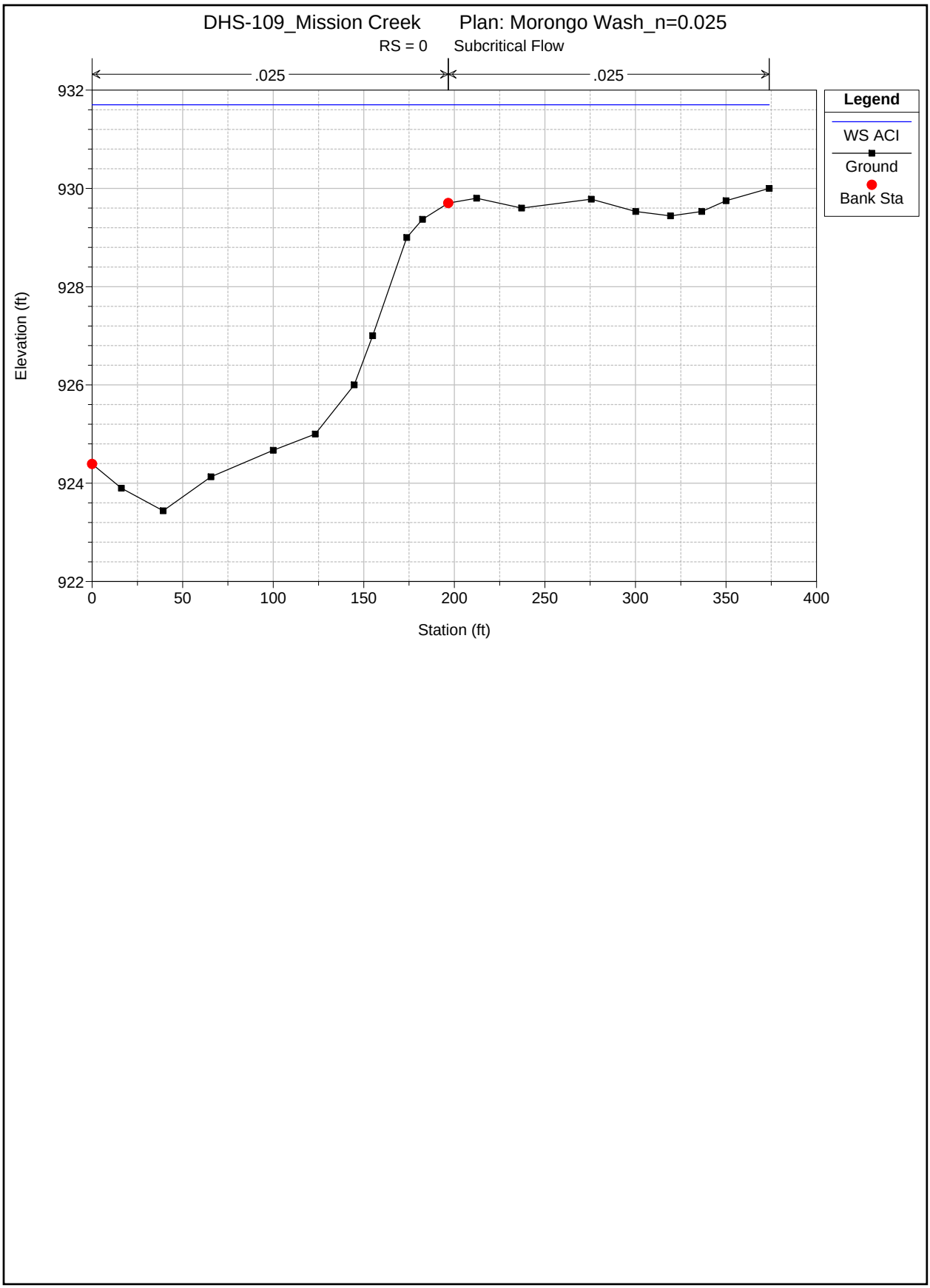

DHS-109_Mission Creek Plan: Morongo Wash_n=0.025
RS = 638 Subcritical Flow
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
942
940
938
936
934
932
0
100
200
300
400
500
600
700
DHS-109_Mission Creek Plan: Morongo Wash_n=0.025
RS = 536 Subcritical Flow
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
939
938
937
936
935
934
933
932
931
0
100
200
300
400
500
600

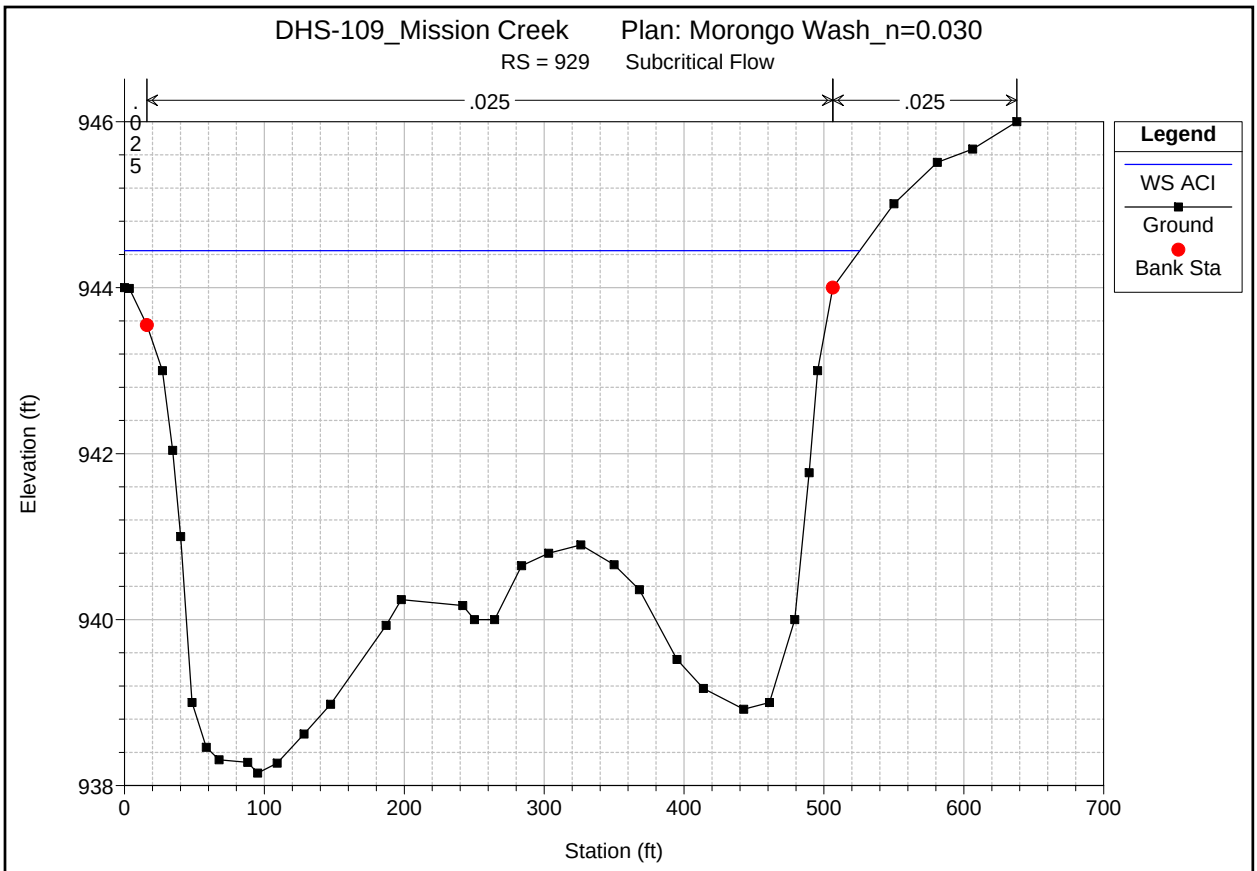

DHS-109_Mission Creek Plan: Morongo Wash_n=0.025
RS = 471 Subcritical Flow
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
938
937
936
935
934
933
932
931
930
0
100
200
300
400
500

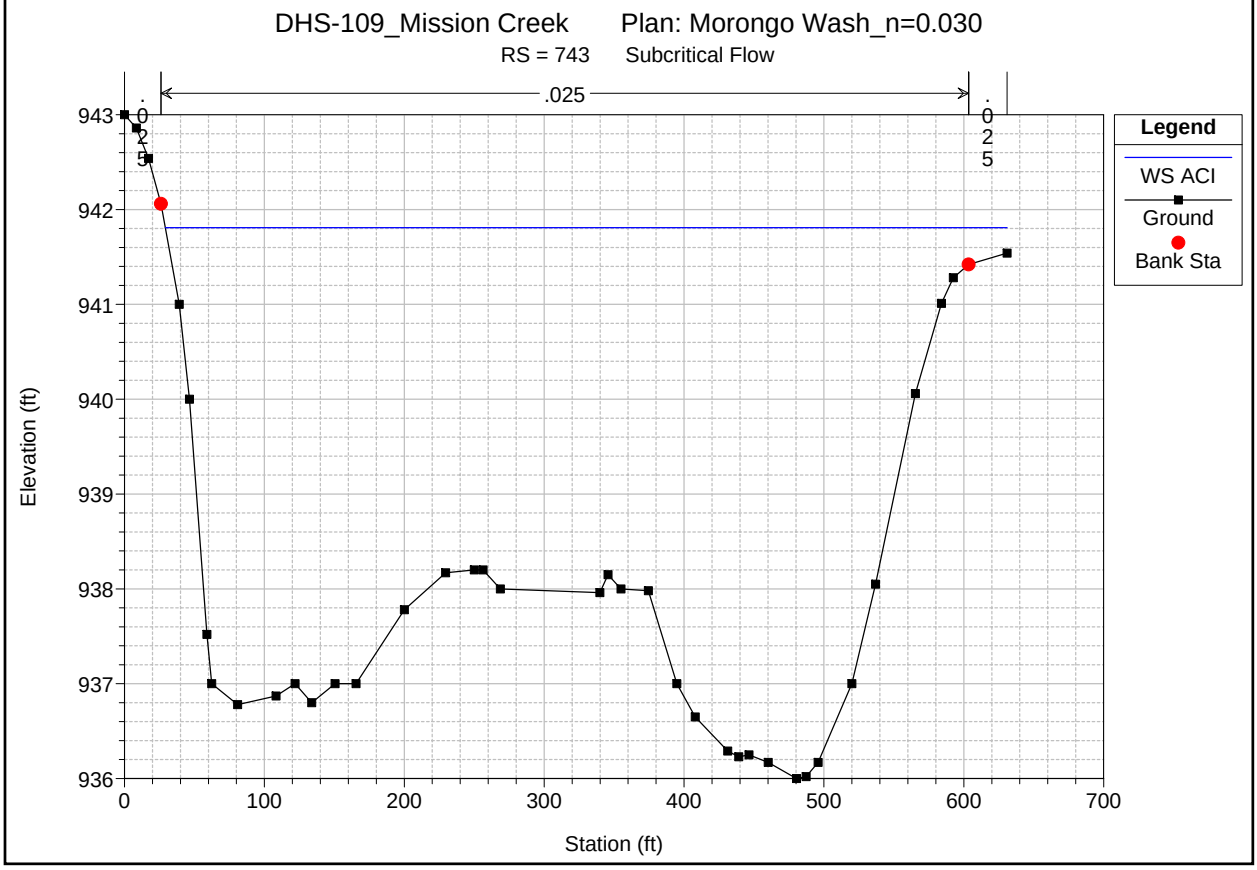

DHS-109_Mission Creek Plan: Morongo Wash_n=0.025
RS = 392 Subcritical Flow
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
937
936
935
934
933
932
931
930
929
0
100
200
300
400

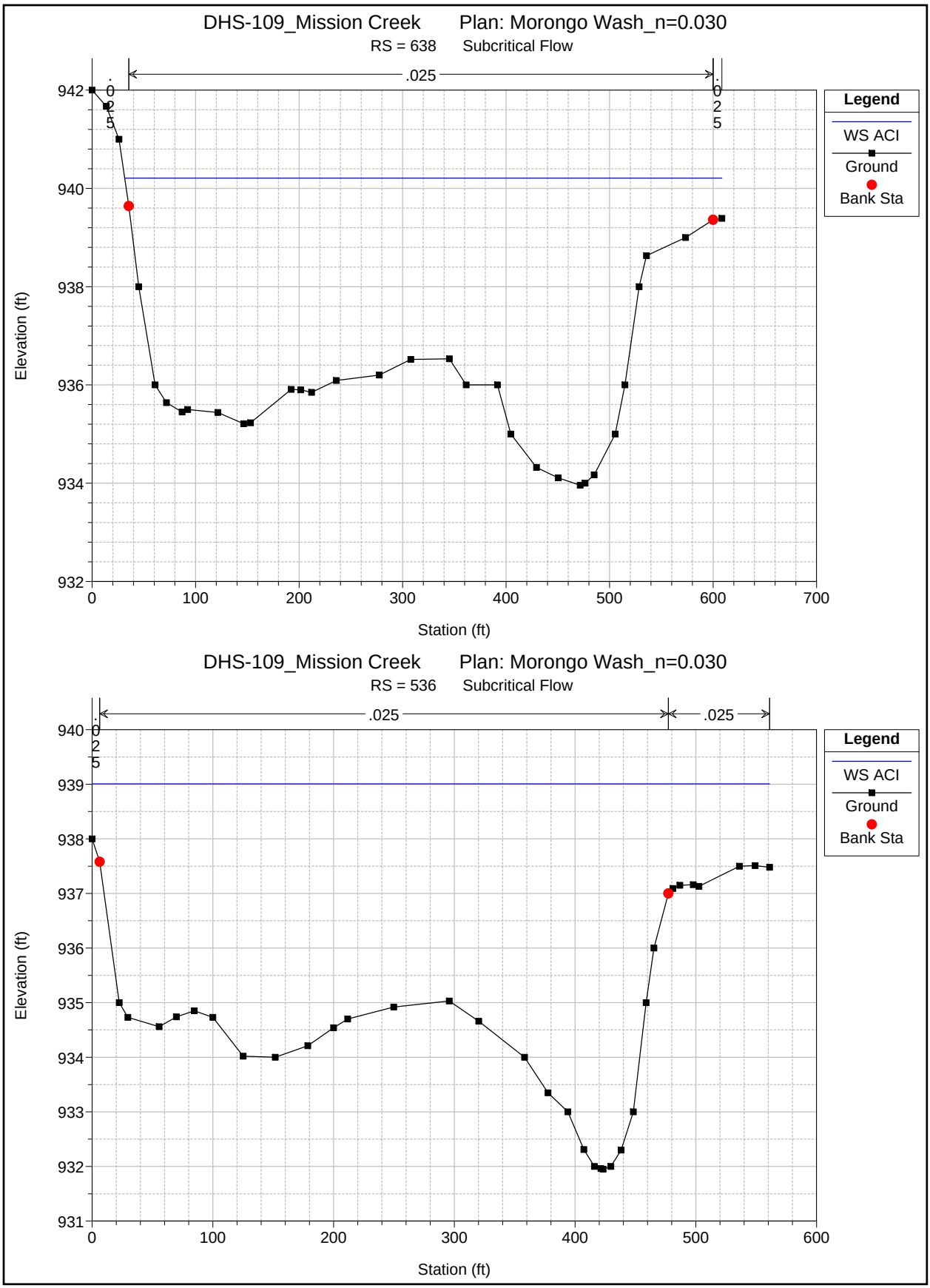

DHS-109_Mission Creek Plan: Morongo Wash_n=0.025
RS = 232 Subcritical Flow
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
936
934
932
930
928
926
0
50
100
150
200
250
300
350
400
Station (ft)

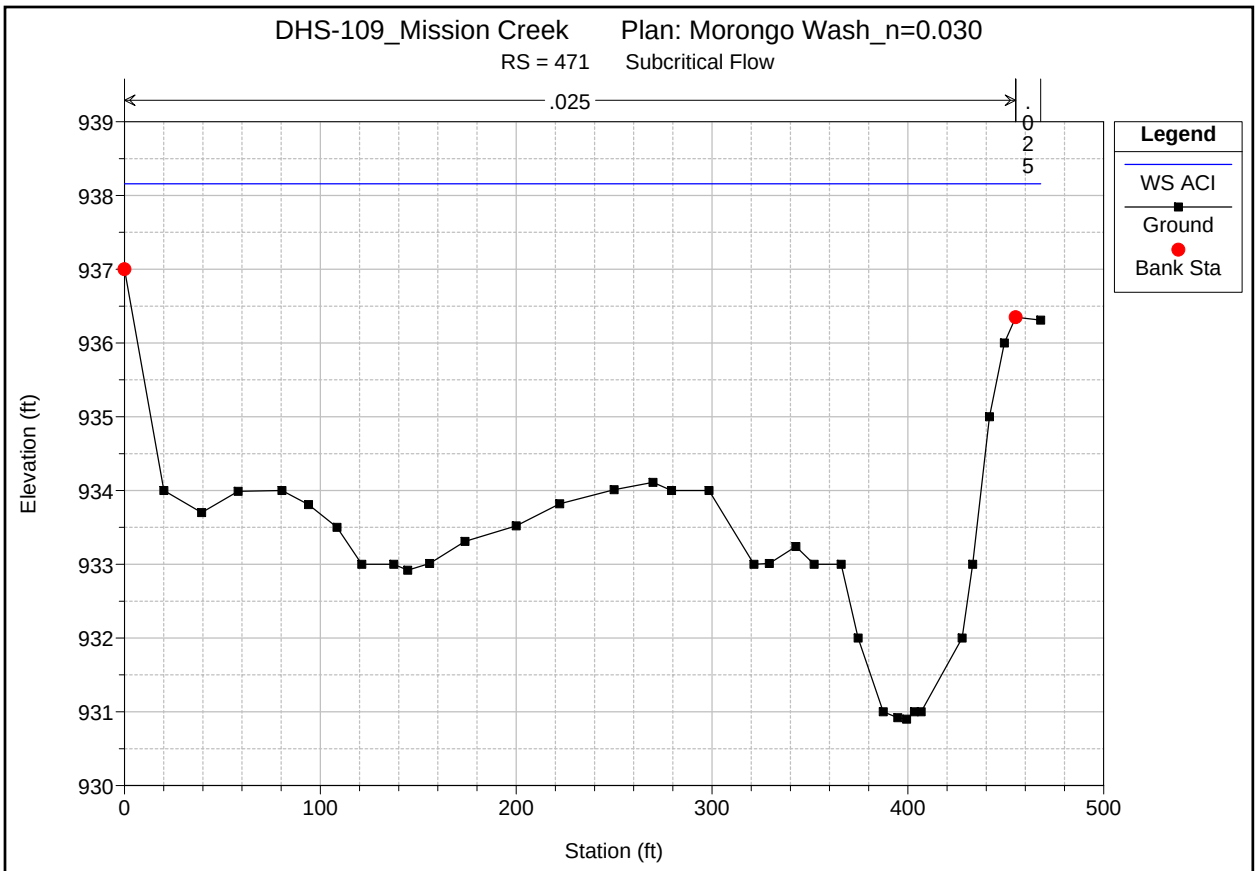

DHS-109_Mission Creek Plan: Morongo Wash_n=0.025
RS = 104 Subcritical Flow
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
934
932
930
928
926
924
0
100
200
300
400
Station (ft)

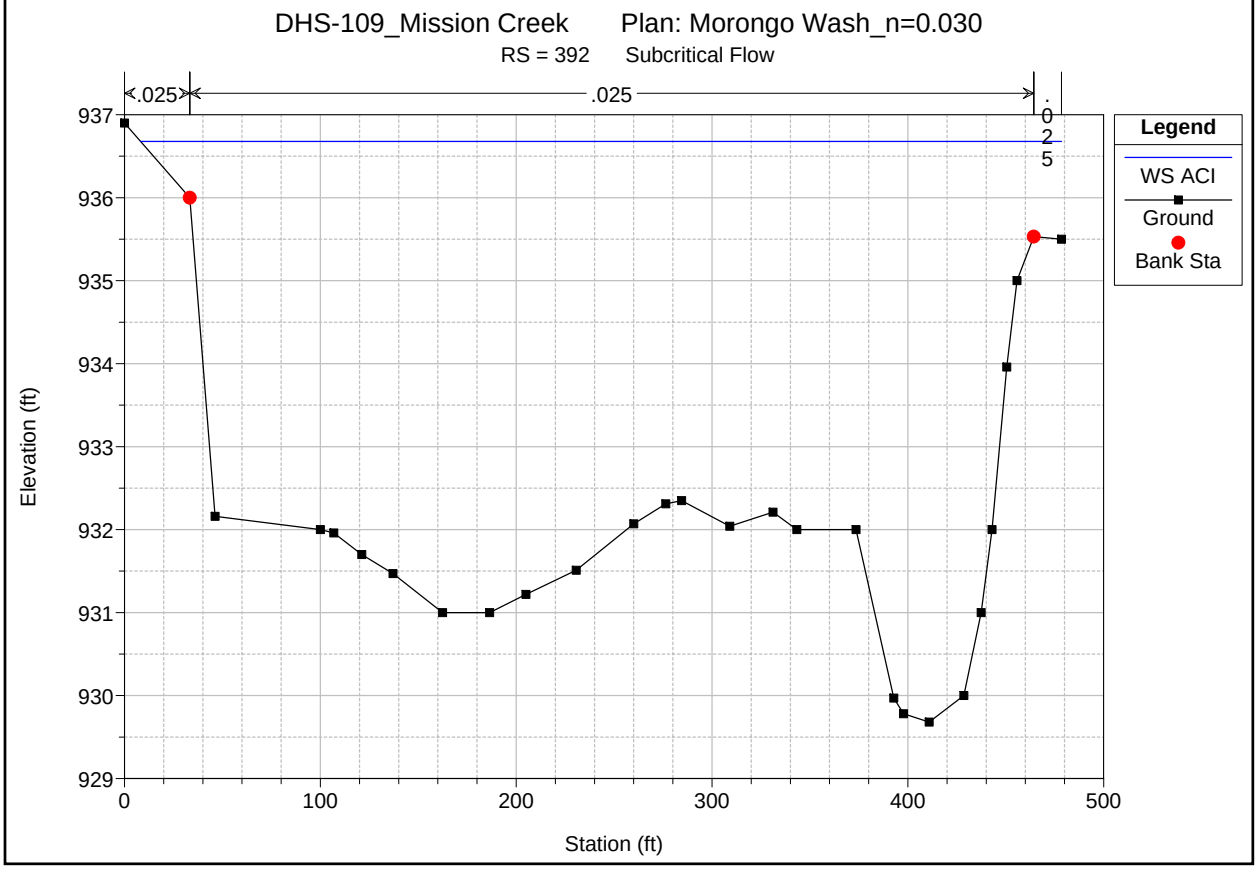

DHS-109_Mission Creek
Plan: Morongo Wash_n=0.025
RS = 0
Subcritical Flow
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
932
930
928
926
924
922
0
50
100
150
200
250
300
350
400

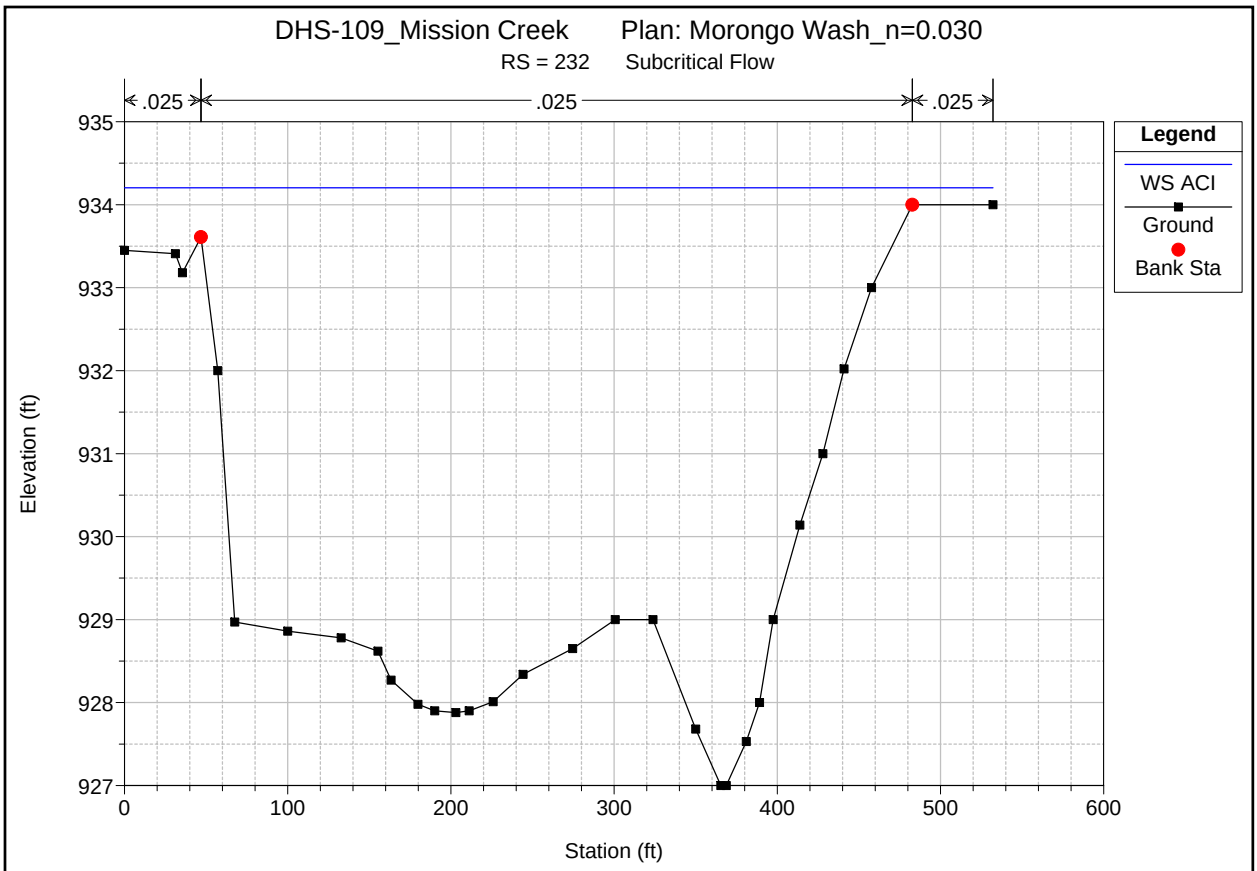

DHS-109_Mission Creek Plan: Morongo Wash_n=0.030
RS = 929 Subcritical Flow
.025
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
946
944
942
940
938
0
100
200
300
400
500
600
700

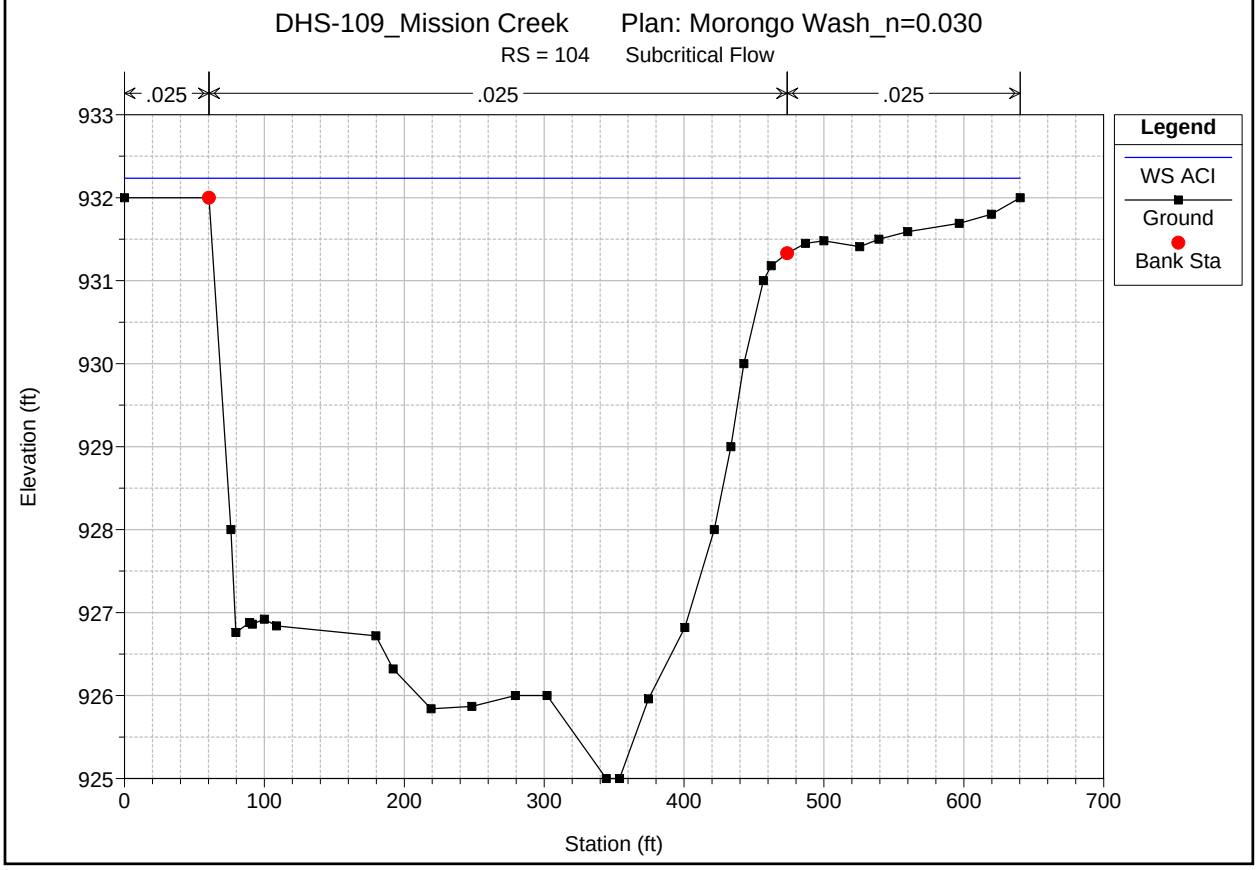

DHS-109_Mission Creek Plan: Morongo Wash_n=0.030
RS = 743 Subcritical Flow
.025
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
943
942
941
940
939
938
937
936
0
100
200
300
400
500
600
700

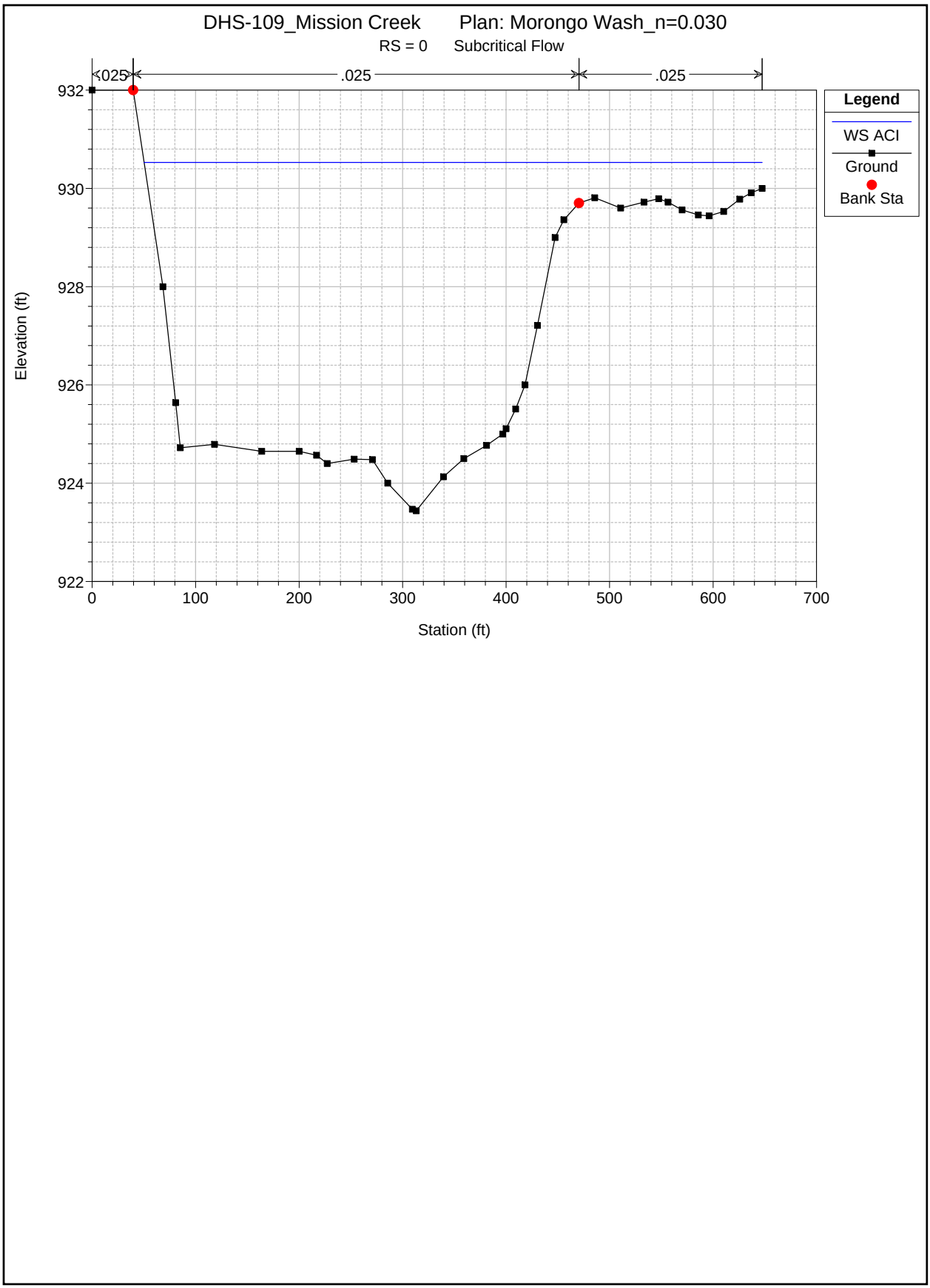

DHS-109_Mission Creek Plan: Morongo Wash_n=0.030
RS = 638 Subcritical Flow
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
942
940
938
936
934
932
0
100
200
300
400
500
600
700
DHS-109_Mission Creek Plan: Morongo Wash_n=0.030
RS = 536 Subcritical Flow
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
940
939
938
937
936
935
934
933
932
931
0
100
200
300
400
500
600


DHS-109_Mission Creek Plan: Morongo Wash_n=0.030
RS = 471 Subcritical Flow
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
939
938
937
936
935
934
933
932
931
930
0
100
200
300
400
500


DHS-109_Mission Creek Plan: Morongo Wash_n=0.030
RS = 392 Subcritical Flow
.025
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
937
936
935
934
933
932
931
930
929
0
100
200
300
400
500


DHS-109_Mission Creek Plan: Morongo Wash_n=0.030
RS = 232 Subcritical Flow
.025
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
935
934
933
932
931
930
929
928
927
0
100
200
300
400
500
600


DHS-109_Mission Creek Plan: Morongo Wash_n=0.030
RS = 104 Subcritical Flow
.025
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
933
932
931
930
929
928
927
926
925
0
100
200
300
400
500
600
700


DHS-109_Mission Creek
Plan: Morongo Wash_n=0.030
RS = 0
Subcritical Flow
.025
.025
.025
Legend
WS ACI
Ground
Bank Sta
Elevation (ft)
Station (ft)
932
930
928
926
924
922
0
100
200
300
400
500
600
700

APPENDIX I: DEBRIS YIELD CALCULATIONS USING THE US ARMY CORP OF ENGINEERS LOS ANGELES DISTRICT DEBRIS METHOD

MISSION CREEK

DEBRIS YIELD CALCULATIONS USING USCE EQUATION 4: LOG Dy = 0.94 (LOG Q) + 0.32 (LOG RR) + 0.14 (LOG A) + 0.17 (FF)

Area (Acres)	Area (SM)	Difference in Elevation (FT)	Length of Longest Watercourse, L (FT)	Length of Longest Watercourse, L (MI)	RR	Total Flow Rate, Q (CFS)	Unit Flow Rate, Q (CFS/SM)	Total Flow Volume (AF)	Total Flow Volume (CY)	FF	Log Dy	Unit Debris Yield (CY/SM)	Total Debris Yield (CY)	A/T	Adjusted Unit Debris Yield (CY/SM)	Adjusted Total Debris Yield (CY)
27,294.00	42.65	7,588.00	128,045.00	24.25	312.89	13,734.00	322.04	4,740	2,064,554,400	3.92	4.44	27,760	1,183,857	0.90	24,984	1,065,472

BULKING FACTOR CALCULATIONS:

LACFCD

Bulking Factor, Fb = 1 + [D/120,000]

Fb = 1.21

Factor of Safety = 25%

Adj. Fb = 1.51

Hamilton, MacArthur, and Vanoni (HM&V)

Bulking Factor, $F_b = 1/(1-C_Y)$ where $Cy = Vs/(Vs+Vw)$

Cy = 0.000516

Fb = 1.00

Factor of Safety = 25%

Adj. Fb = 1.25

MORONGO WASH

DEBRIS YIELD CALCULATIONS USING USCE EQUATION 5: LOG Dy = 1.02 (LOG Q) + 0.23 (LOG RR) + 0.16 (LOG A) + 0.13 (FF)

Area (Acres)	Area (SM)	Difference in Elevation (FT)	Length of Longest Watercourse, L (FT)	Length of Longest Watercourse, L (MI)	RR	Total Flow Rate, Q (CFS)	Unit Flow Rate, Q (CFS/SM)	Total Flow Volume (AF)	Total Flow Volume (CY)	FF	Log Dy	Unit Debris Yield (CY/SM)	Total Debris Yield (CY)	A/T	Adjusted Unit Debris Yield (CY/SM)	Adjusted Total Debris Yield (CY)
71,502.00	111.72	7,936.00	142,370.00	26.96	294.32	26,609.00	238.17	8,653	3,768,900,680	3.98	4.29	19,335	2,160,156	0.90	17,402	1,944,141

BULKING FACTOR CALCULATIONS:

LACFCD

Bulking Factor, Fb = 1 + [D/120,000]

Fb = 1.15

Factor of Safety = 25%

Adj. Fb = 1.43

Hamilton, MacArthur, and Vanoni (HM&V)

Bulking Factor, $F_b = 1/(1-C_Y)$ where $Cy = Vs/(Vs+Vw)$

Cy = 0.000516

Fb = 1.00

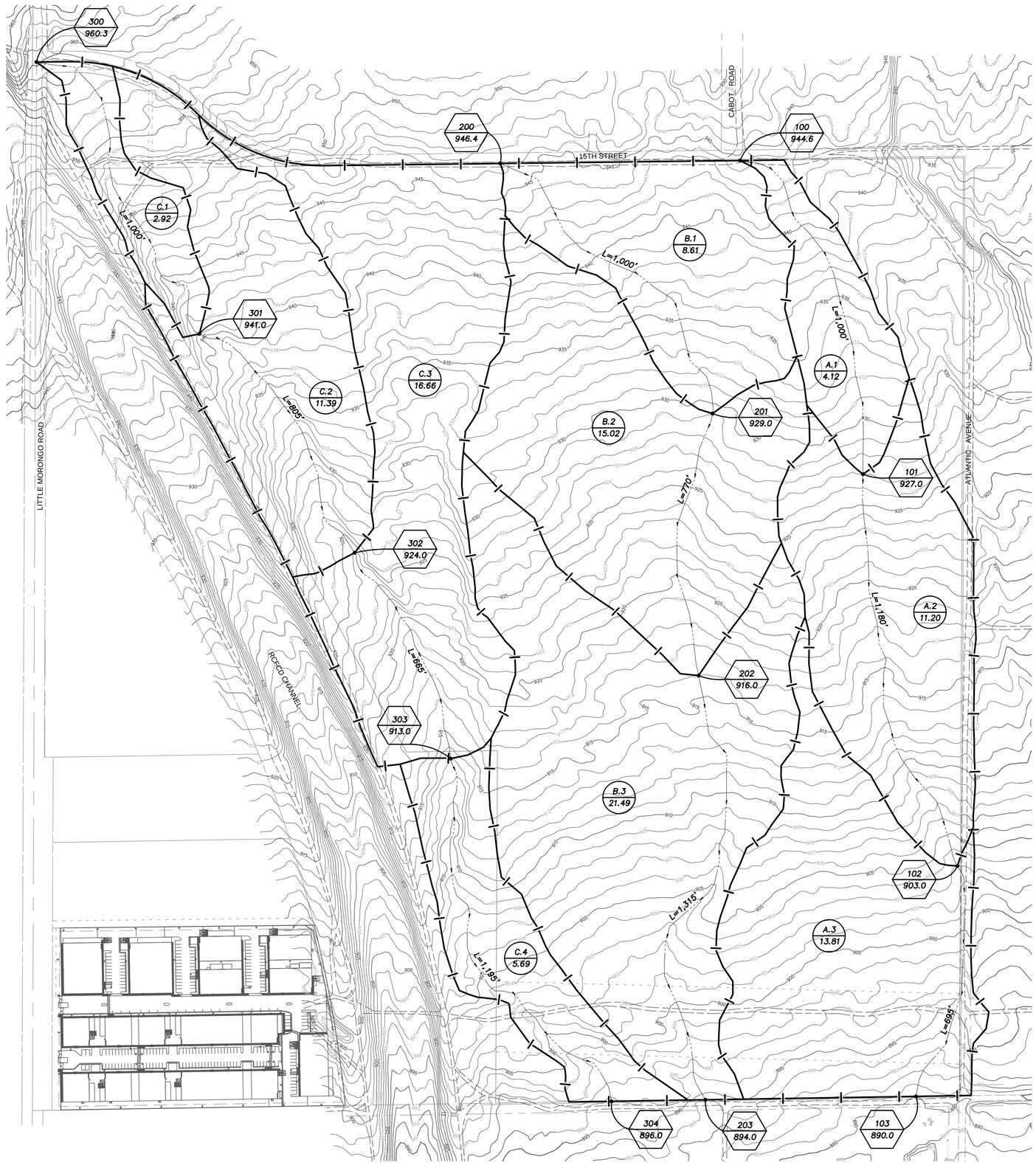
Factor of Safety = 25%

Adj. Fb = 1.25

EXHIBITS

EXHIBIT A: ONSITE AND OFFSITE HYDROLOGY MAP FOR THE PROPOSED CONDITION

EXHIBIT A - TPM NO. 37235
HYDROLOGY MAP
FOR ON-SITE AREA
(EXISTING CONDITION)



LEGEND:

XXX.X / XXXX	NODE/CONCENTRATION POINT / FLOWLINE ELEVATION
XX / X.XX	SUB AREA / ACRES
L=XXX'	FLOW DISTANCE
	FLOW PATH
	WATERSHED SUB-BOUNDARY

HYDROLOGY SUMMARY TABLE

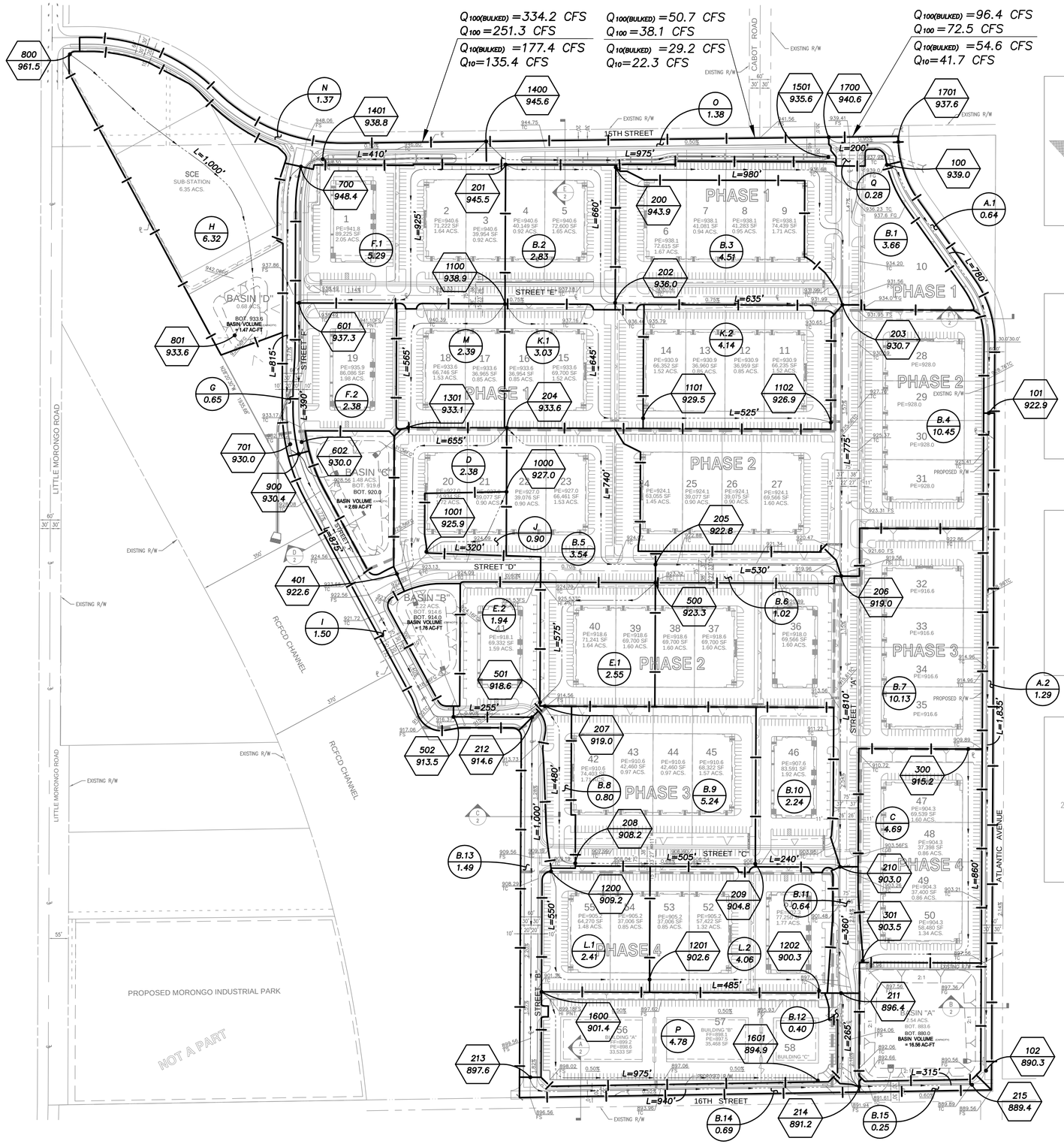
NODE	Q_{10}(CFS)	TC (MIN.)	Q_{100}(CFS)	TC (MIN.)
100–101	5.7	18.8	9.6	18.8
101–102	16.9	29.5	29.4	28.1
102–103	29.0	34.8	51.4	32.5
200–201	11.9	18.9	20.0	18.9
201–202	28.5	25.6	49.2	24.6
202–203	47.1	35.5	83.0	33.1
300–301	4.1	18.5	6.9	18.5
301–302	17.1	24.7	29.6	23.7
302–303	33.8	29.1	59.6	27.4
303–304	38.7	36.3	68.5	33.4

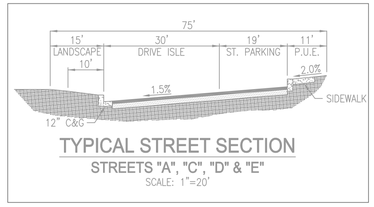
GRAPHIC SCALE
150 0 75 150 300
1" = 150'

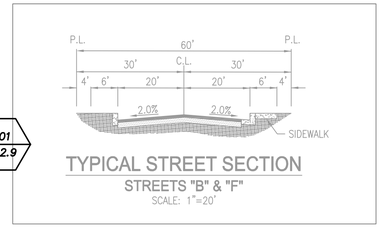
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RIVERSIDE, CA 92507
PH. (951) 300-1431 FAX (951) 300-1435

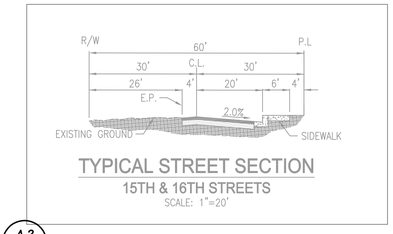
EXHIBIT B: ON-SITE HYDROLOGY MAP (RATIONAL TABLING METHOD) FOR THE PROPOSED CONDITION

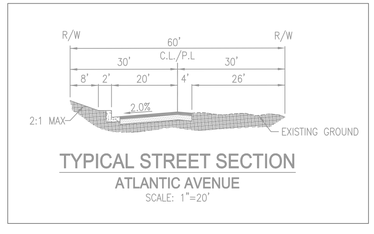
EXHIBIT B - TPM NO. 37235
HYDROLOGY MAP
FOR ON-SITE AREA
(PROPOSED CONDITION)











LEGEND:

- XXX.X / XXXX — NODE/CONCENTRATION POINT / FLOWLINE ELEVATION
- XX / X.XX — SUB AREA / ACRES
- L=XXX' — FLOW DISTANCE
- FLOW PATH
- WATERSHED SUB-BOUNDARY

GRAPHIC SCALE
150 0 75 150 300
1" = 150'

HYDROLOGY SUMMARY TABLE

NODE	Q_{10}(CFS)	TC (MIN.)	Q_{100}(CFS)	TC (MIN.)
100–101	1.7	9.4	2.6	9.4
101–102	3.9	19.6	6.1	18.6
200–203	8.6	11.2	13.4	11.2
201–202	7.4	9.4	11.5	9.4
202–203	17.1	13.0	26.8	12.7
*202–203	25.0	13.0	39.3	12.7
203–206	45.0	15.8	71.3	15.1
204–205	9.0	9.8	14.0	9.8
205–206	11.2	13.2	17.4	12.9
*205–206	55.1	15.8	87.2	15.1
206–210	73.0	18.0	116.0	17.1
207–208	2.4	7.6	3.7	7.6
208–209	14.9	10.9	23.5	10.6
209–210	19.9	12.2	31.5	11.8
*209–210	88.9	18.0	141.3	17.1
210–211	90.0	19.0	143.1	18.0
211–214	90.7	19.7	144.2	18.6
212–213	3.6	10.7	5.6	10.7
213–214	4.8	17.8	7.6	17.1
*213–214	95.3	19.7	151.4	18.5
214–215	95.7	20.8	152.0	19.5
300–301	11.4	10.6	17.8	10.6
204–401	6.3	9.1	9.9	9.1
500–501	6.4	10.0	10.0	10.0
501–502	11.0	11.0	17.2	10.9
201–601	12.0	11.9	18.7	11.9
601–602	17.1	13.4	26.6	13.2
700–701	1.7	9.4	2.6	9.4
800–801	10.6	12.9	17.5	12.9
900–502	3.8	9.9	5.9	9.9
1000–1001	2.4	9.4	3.7	9.4
1100–1101	8.0	9.3	12.4	9.3
1101–1102	16.7	13.3	26.3	12.9
1200–1201	6.4	9.1	10.0	9.1
1201–1202	15.2	13.0	23.9	12.6
1100–1301	6.2	9.5	9.7	9.5
1400–1401	178.6	57.1	336.2	51.4
1400–1501	31.2	25.1	53.9	24.0
1600–1601	10.4	12.8	16.1	12.8
1700–1701	54.9	32.7	97.0	30.9

* DENOTES CONFLUENCE POINT.

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EXHIBIT C: ON-SITE HYDROLOGY MAP (UNIT HYDROGRAPH METHOD) FOR THE PROPOSED CONDITION

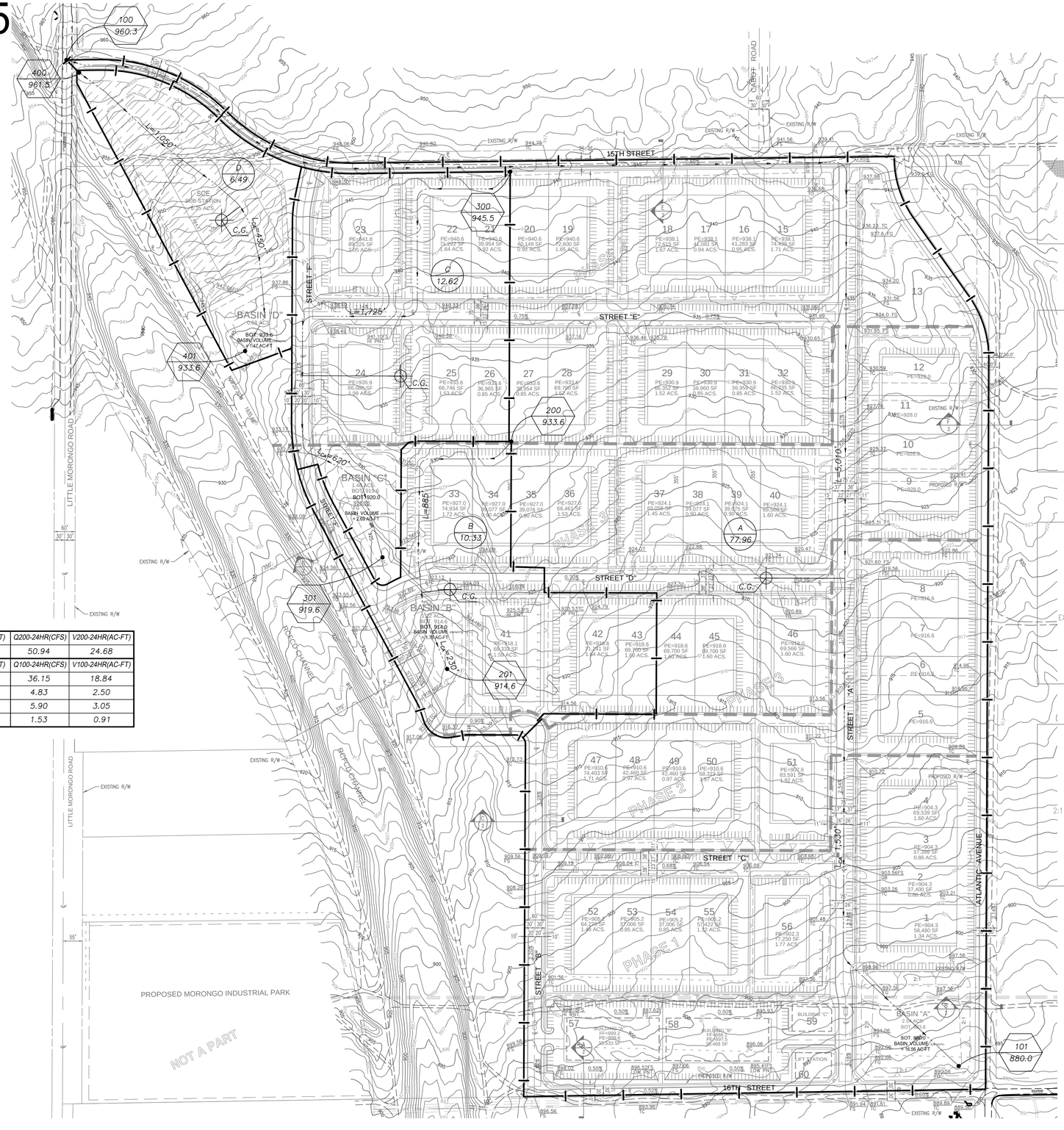
EXHIBIT C - TPM NO. 37235
UNIT-HYDROGRAPH MAP FOR ON-SITE AREA (PROPOSED CONDITION)

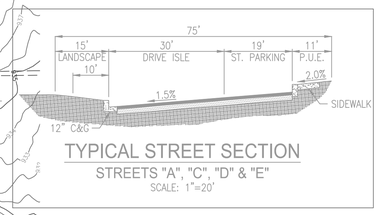
LEGEND:

- XXX.X / XXXX — NODE/CONCENTRATION POINT / FLOWLINE ELEVATION
- XXX / X.X — SUB AREA / ACRES
- L=XXX' — FLOW DISTANCE
- L_{CA}=XXX' — FLOW DISTANCE MEASURED UPSTREAM TO POINT OF CENTROID
- C.G. — MAIN CENTROID
- FLOW PATH
- WATERSHED SUB-BOUNDARY

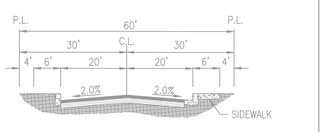
HYDROLOGY SUMMARY TABLE

NODE	AREA	AREA SIZE (AC)	Q200-1HR(CFS)	V200-1HR(AC-FT)	Q200-3HR(CFS)	V200-3HR(AC-FT)	Q200-6HR(CFS)	V200-6HR(AC-FT)	Q200-24HR(CFS)	V200-24HR(AC-FT)
100–101	A	77.96	401.16	10.63	182.17	15.94	134.51	17.29	50.94	24.68
NODE	AREA	AREA SIZE (AC)	Q100-1HR(CFS)	V100-1HR(AC-FT)	Q100-3HR(CFS)	V100-3HR(AC-FT)	Q100-6HR(CFS)	V100-6HR(AC-FT)	Q100-24HR(CFS)	V100-24HR(AC-FT)
100–101	A	77.96	311.59	8.05	138.96	11.48	101.38	11.45	36.15	18.84
200–201	B	10.33	51.23	1.24	20.41	1.55	15.59	1.53	4.83	2.50
300–301	C	12.62	48.69	1.46	23.58	1.89	17.9	1.86	5.90	3.05
400–401	D	6.49	24.13	0.60	9.95	0.62	7.15	0.68	1.53	0.91

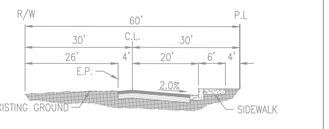




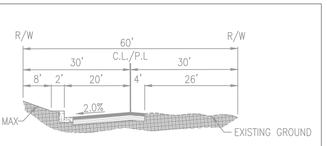
TYPICAL STREET SECTION
STREETS "A", "C", "D" & "E"
SCALE: 1"=20'



TYPICAL STREET SECTION
STREETS "B" & "F"
SCALE: 1"=20'



TYPICAL STREET SECTION
15TH & 16TH STREETS
SCALE: 1"=20'



TYPICAL STREET SECTION
ATLANTIC AVENUE
SCALE: 1"=20'

N

GRAPHIC SCALE
150 0 75 150 300
1" = 150'

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2155 CHICAGO AVENUE, SUITE 301
RIVERSIDE, CA 92507
PH. (951) 300-1431 FAX (951) 300-1435

EXHIBIT D: OFF-SITE HYDROLOGY MAP (RATIONAL TABLING METHOD) FOR THE EXISTING CONDITION TRIBUTARY TO THE PROJECT SITE

EXHIBIT D - TPM NO. 37235
HYDROLOGY MAP
FOR OFF-SITE AREA
(EXISTING CONDITION)

LEGEND:

- XXX.X / XXXX — NODE/CONCENTRATION POINT / FLOWLINE ELEVATION
- XX / X.XX — SUB AREA / ACRES
- L=XXX' — FLOW DISTANCE
- FLOW PATH
- WATERSHED SUB-BOUNDARY

HYDROLOGY SUMMARY TABLE

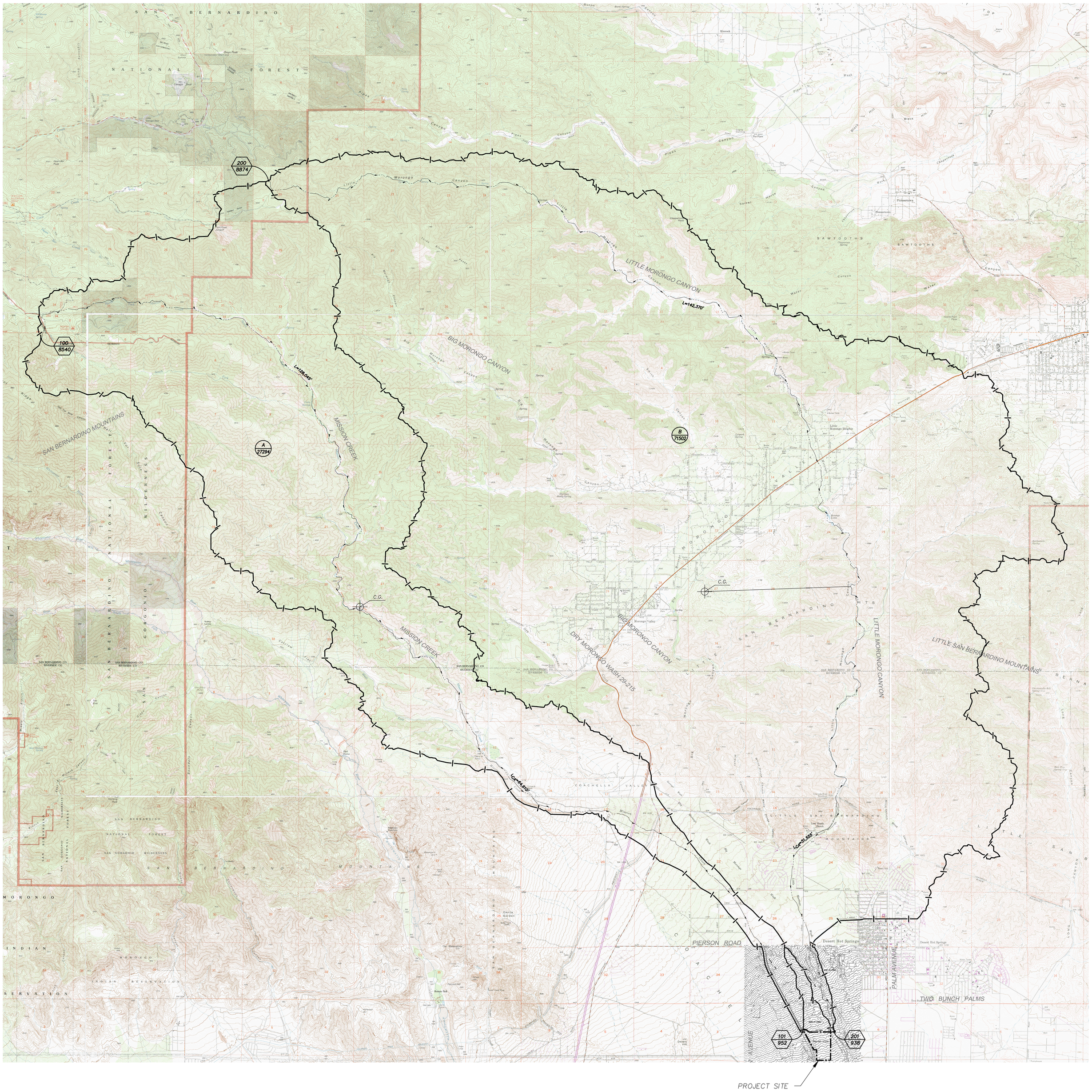
NODE	Q_{100}(CFS)	TC (MIN.)
100-101	10.0	17.6
101-102	34.9	24.4
102-103	75.3	30.4
103-104	177.8	41.9
104-105	251.3	51.0
200-201	9.8	16.3
201-202	38.1	20.3
300-301	20.3	18.2
301-302	56.8	25.4
302-303	72.5	30.4
400-401	11.5	17.9
401-402	29.5	23.2

GRAPHIC SCALE
300 0 150 300 600
1" = 300'

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EXHIBIT E: OFF-SITE HYDROLOGY MAP (UNIT HYDROGRAPH METHOD) FOR THE EXISTING CONDITION FOR MISSION CREEK AND MORONGO WASH

EXHIBIT E - TPM NO. 37235 - UNIT-HYDROGRAPH MAP
FOR MISSION CREEK AND MORONGO WASH AT 15TH STREET (EXISTING CONDITION)



LEGEND:

XXX.X / XXXX	NODE/CONCENTRATION POINT / FLOWLINE ELEVATION
XXX / X.X	SUB AREA / ACRES
L=XXX'	FLOW DISTANCE
L_{CA}=XXX'	FLOW DISTANCE MEASURED UPSTREAM TO POINT OF CENTROID
C.G.	MAIN CENTROID
	FLOW PATH
	WATERSHED SUB-BOUNDARY

HYDROLOGY SUMMARY TABLE

100% DESERT S-GRAPH										
NODE	AREA	AREA SIZE (AC)	Q100-1HR(CFS)	V100-1HR(AC-FT)	Q100-3HR(CFS)	V100-3HR(AC-FT)	Q100-6HR(CFS)	V100-6HR(AC-FT)	Q100-24HR(CFS)	V100-24HR(AC-FT)
100–101	A	27,294	10,516	702	12,893	1,558	13,101	2,125	13,734	4,740
200–201	B	71,502	22,547	1,503	28,067	3,294	26,470	3,817	26,609	8,653

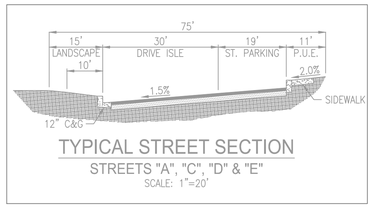
N

GRAPHIC SCALE
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1" = 3000'

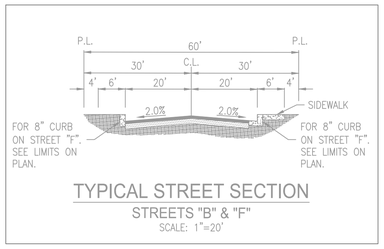
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EXHIBIT F: PRELIMINARY DRAINAGE PLAN

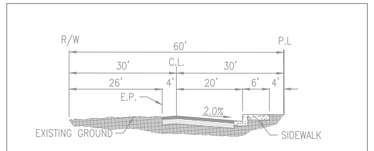
EXHIBIT F - TPM NO. 37235
PRELIMINARY DRAINAGE FACILITIES PLAN



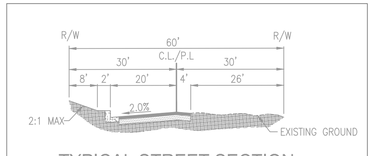
TYPICAL STREET SECTION
STREETS "A", "C", "D" & "E"
SCALE: 1"=20'



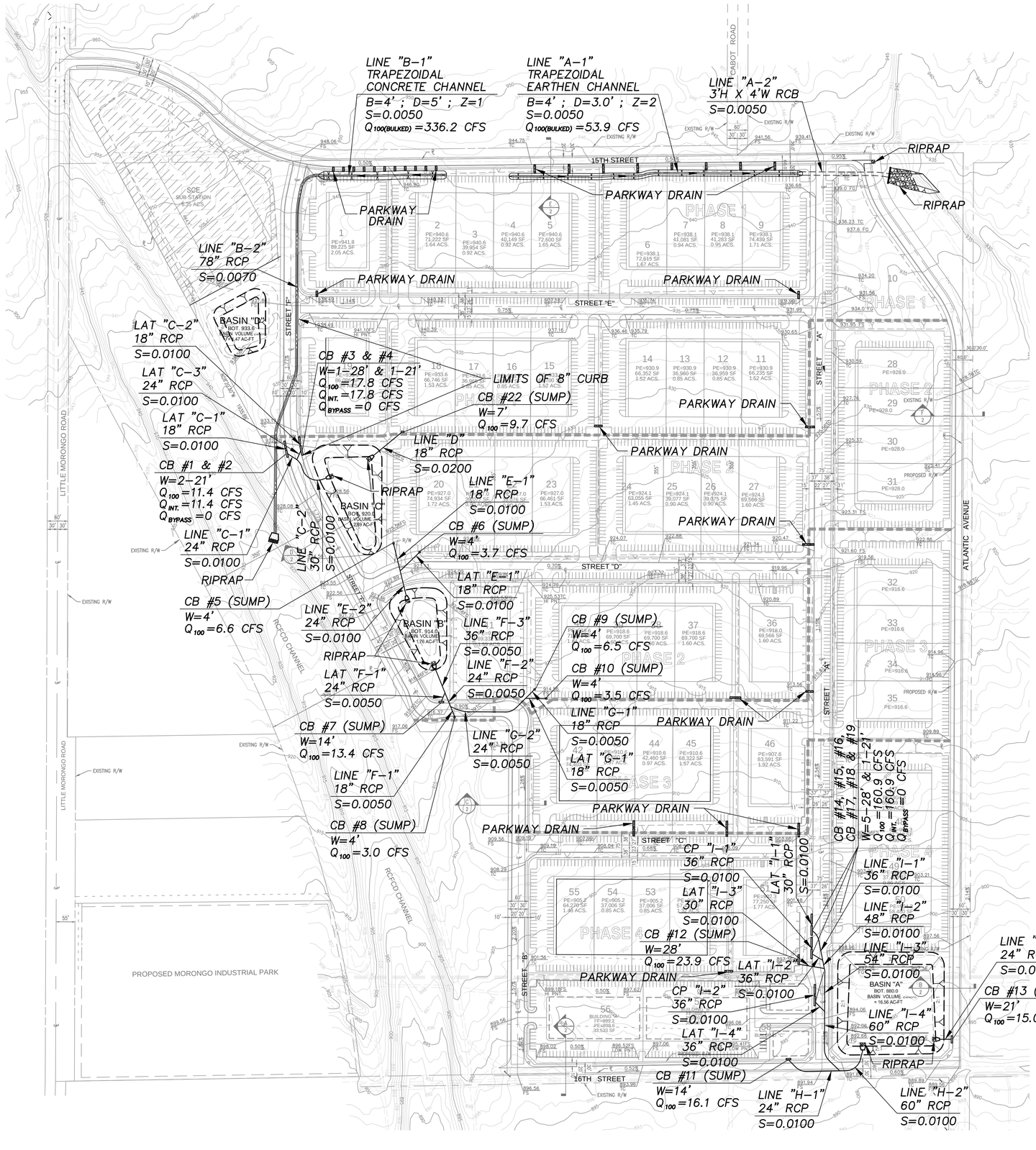
TYPICAL STREET SECTION
STREETS "B" & "F"
SCALE: 1"=20'



TYPICAL STREET SECTION
15TH & 16TH STREETS
SCALE: 1"=20'



TYPICAL STREET SECTION
ATLANTIC AVENUE
SCALE: 1"=20'



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PH. (951) 300-1431 FAX (951) 300-1435

EXHIBIT G: MISSION CREEK AND MORONGO WASH FLOOD HAZARD MAP

EXHIBIT G - TPM NO.37235 MISSION CREEK AND MORONGO WASH FLOOD HAZARD EXHIBIT



HYDRAULIC SUMMARY TABLE

MISSION CREEK					
RIVER STATION (FT)	INVERT (FT)	100-YEAR			
		FLOW RATE (CFS)	W.S.E.	DEPTH (FT)	VELOCITY (FPS)
3835	964.05	13,734	970.57	6.52	12.67
3647	959.97	13,734	966.88	6.91	19.48
3407	955.01	13,734	961.96	6.95	19.97
3155	950.02	13,734	957.21	7.19	19.32
3064	948.03	13,734	955.03	7.00	19.54
2986	946.59	13,734	953.35	6.76	19.30
2907	945.00	13,734	951.75	6.75	18.40
2665	940.01	13,734	946.13	6.12	19.31
2425	935.00	13,734	941.40	6.40	19.06
2180	930.00	13,734	936.40	6.40	19.61
1927	924.91	13,734	931.79	6.88	19.34
1686	920.00	13,734	926.66	6.66	20.32
1460	915.13	13,734	922.05	6.92	18.66
1204	910.00	13,734	917.04	7.04	20.03
954	905.12	13,734	912.70	7.58	19.61
693	900.18	13,734	907.49	7.31	20.57
418	895.04	13,734	902.35	7.31	19.85
260	892.30	13,734	899.69	7.39	19.62
137	890.02	13,734	897.54	7.52	19.84
0	887.65	13,734	895.05	7.40	20.03

HYDRAULIC SUMMARY TABLE

MORONGO WASH					
RIVER STATION (FT)	INVERT (FT)	100-YEAR			
		FLOW RATE (CFS)	W.S.E.	DEPTH (FT)	VELOCITY (FPS)
929	938.15	26,609	944.45	6.30	11.88
743	936.00	26,609	941.81	5.81	16.58
638	933.96	26,609	940.21	6.25	15.57
536	931.95	26,609	939.01	7.06	14.92
471	930.90	26,609	938.16	7.26	14.99
392	929.68	26,609	936.68	7.00	15.32
232	927.00	26,609	934.20	7.20	16.35
104	925.00	26,609	932.24	7.24	17.35
0	923.44	26,609	930.53	7.09	18.9

LEGEND

SECTION NUMBER —— HEC–RAS CROSS SECTION

100–YR WSE = XXX.XX — FLOOD HAZARD ELEVATION

CHANNEL FLOWLINE

GRAPHIC SCALE
200 0 100 200 400
1" = 200'

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2155 CHICAGO AVENUE, SUITE 301
RIVERSIDE, CA 92507
PH. (951) 300–1431 FAX (951) 300–1435

Appendix H

Noise Impact Study

DHS 109
NOISE IMPACT ANALYSIS

City of Desert Hot Springs

September 21, 2020

Traffic Engineering ● Transportation Planning ● Parking ● Noise & Vibration
Air Quality ● Global Climate Change ● Health Risk Assessment

DHS 109
NOISE IMPACT ANALYSIS

City of Desert Hot Springs

September 21, 2020

prepared by

Roma Stromberg, INCE, MS

GANDDINI GROUP, INC.
550 Parkcenter Drive, Suite 202
Santa Ana, California 92705
714.795.3100 | www.ganddini.com

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EXECUTIVE SUMMARY

PURPOSE AND OBJECTIVES

The purpose of this report is to provide an assessment of the noise impacts associated with development and operation of the proposed DHS 109 Business Park (Tentative Parcel Map No. 37235) project and to identify mitigation measures that may be necessary to reduce those impacts. The noise issues related to the proposed land use and development have been evaluated in light of applicable federal, state and local policies, including those of the City of Desert Hot Springs.

Although this is a technical report, effort has been made to write the report clearly and concisely. A list of acronyms and glossary are provided in Appendix A and Appendix B of this report to assist the reader with technical terms related to noise analysis.

PROJECT LOCATION

The project site is located east of Little Morongo Road between 15th Avenue and 16th Avenue in the City of Desert Hot Springs. Project site APNs include: 665-080-005, 665-080-007, and 665-050-028. Figure 1 shows the project location map.

PROJECT DESCRIPTION

The project site is proposed to include an industrial park consisting of 57 condo lots that will accommodate a combination of general light industrial, cannabis (cultivation, manufacturing, distribution, etc.), and large scale energy/utility facilities land uses on approximately 109 acres. The proposed project will include 236,180 square feet of general light industrial uses, 761,770 square feet of industrial park (cannabis activity), and 286,230 square feet for large-scale energy/utility uses for a total of 1,284,180 square feet. The northwestern most portion the project site (approximately 4.5 acres) will remain undeveloped. The proposed project will include 4 retention basins, totaling 4.28 acres. The remainder of the project site will be developed with a roadway system with approximately 2,879 parking stalls provided, including 38 American's Disabilities Act (ADA) parking stalls. Furthermore, the proposed project will include carports to provide adequate shade cover for onsite parking. Proposed carports will also be designed for installation and operation of photovoltaic (PV) panels to provide onsite electricity.

PROJECT IMPACTS

Construction Impacts

Worst-case construction noise levels could reach 87.2 dBA L_{eq} and 91.0 dBA L_{max} at the property line of the proposed project. The nearest sensitive receptor is located approximately 270 feet southeast of the proposed project's southern property line. Project construction noise levels may reach up to 63.5 dBA L_{eq} and 66.9 dBA L_{max} at this receptor. These noise levels will substantially exceed ambient noise levels and may temporarily annoy adjacent and nearby residents. However, compliance with City Ordinance 9.04.030 will limit impacts to day-time hours and avoid nighttime and early morning impacts when people are generally more sensitive to noise. Implementation of Mitigation Measures 1-5 in Section 8 of this report will further reduce construction noise levels during the day.

Noise Impacts to Off-Site Receptors Due to Project Generated Trips

Existing and Existing Plus project noise levels along acoustically significant area roadways were modeled utilizing the FHWA Traffic Noise Prediction Model FHWA-RD-77-108 in order to quantify the proposed project's contribution to increases in ambient noise levels.

For off-site project generated noise, increases in ambient noise along affected roadways due to project generated vehicle traffic is considered substantial if they result in an increase of at least 3 dBA CNEL and: (1) the existing noise levels already exceed the applicable land use compatibility standard for the affected sensitive receptors set forth in the City's General Plan; or (2) the project increases noise levels by at least 3 dBA CNEL and raises the ambient noise level from below the applicable standard to above the applicable standard.

Per the noise modeling, all of the modeled roadway segments are anticipated to change the noise a nominal amount (approximately 0.02 to 1.834 dBA CNEL). Therefore, a change in noise level would not be audible and would be considered less than significant. No mitigation is required.

Noise Impacts to Off-Site Receptors Due to On-Site Operational Noise

The operational activities associated with the proposed project were modeled using the SoundPLAN noise model to assess potential noise impacts to nearby single-family detached residential dwelling units. Specifically, these activities include power plant equipment noise, parking lot noise, heating and air conditioning units (HVAC), and loading and unloading.

Land zoned for open space and conservation borders the site to the west; land zoned for light industrial development borders the site to the north and south, and for part of the eastern project boundary. Land adjacent to the northeast corner of the project site is zoned for rural desert residential land uses. There are existing single-family residential land uses in the general vicinity but not immediately adjacent to the project site.

As shown in Table 6, existing measured noise levels at nearby sensitive receptors range between 36.4 and 44.8 dBA L_{eq}, and modeled project operational noise levels are expected to range between 30.0 and 43.0 dBA L_{eq}. Project operations will not result in substantial increases in ambient noise levels.

As shown in Figures 6 and 7 modeled exterior project operational noise levels range between 30.3 and 52.8 dBA L_{eq} in the project vicinity and are unlikely to exceed the City's exterior noise criteria of 65 dBA L_{eq} or the City's interior noise criteria of 45 dBA L_{eq}. Typical residential construction provides 15 dB of reduction with a windows open condition and 20 dB of reduction with a windows closed condition. Impacts related to project operation will be less than significant. No mitigation is required.

Power plant, parking lot, HVAC and loading and unloading activities are not expected to exceed the City's noise level standard for residential properties of 65 dBA L_{eq} at any existing residential land uses. Operational noise impacts would be less than significant. No mitigation measures are required.

Groundborne Vibration Impacts

Construction equipment is anticipated to be located at a distance of at least 270 feet or more from any receptor. Temporary vibration levels associated with project construction would be less than significant. Therefore, impacts associated with construction activities would be less than significant. No mitigation is required.

CONSTRUCTION NOISE REDUCTION MEASURES

In addition to adherence to the City of Desert Hot Springs's policies found in the Noise Element and Municipal Code limiting the construction hours of operation, the following measures are recommended to reduce construction noise and vibrations, emanating from the proposed project:

1. During all project site excavation and grading on-site, construction contractors shall equip all construction equipment, fixed or mobile, with properly operating and maintained mufflers, consistent with manufacturer standards.

2. The contractor shall place all stationary construction equipment so that emitted noise is directed away from the noise sensitive receptors nearest the project site.

3. Equipment shall be shut off and not left to idle when not in use.

4. The contractor shall locate equipment staging in areas that will create the greatest distance between construction-related noise/vibration sources and sensitive receptors nearest the project site during all project construction.

5. Jackhammers, pneumatic equipment and all other portable stationary noise sources shall be shielded and noise shall be directed away from sensitive receptors.

1. INTRODUCTION

This section describes the purpose of this noise impact analysis, project location, proposed development, and study area. Figure 1 shows the project location map and Figure 2 illustrates the project site plan.

PURPOSE AND OBJECTIVES

The purpose of this report is to provide an assessment of the noise impacts associated with development and operation of the proposed DHS 109 Business Park (Tentative Parcel Map No. 37235) project and to identify mitigation measures that may be necessary to reduce those impacts. The noise issues related to the proposed land use and development have been evaluated in light of applicable federal, state and local policies, including those of the City of Desert Hot Springs.

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Project Components

Industrial Development

Numbered condo lots 1 through 55 will be developed with modular industrial buildings. Two different modular buildings will be used. Building Type A will encompass a single numbered lot. Lots developed with Building Type A will include a 23,210 square-foot structure. Building Type B will encompass four numbered lots. Lots developed with Building Type B will include a 95,410 square-foot structure.

Construction and operation of the proposed modular industrial buildings will follow an approach to use natural "energy reduction" by design that will incorporate the latest proven technology in:

- Building envelope design with a combination of shading, insulation and high-performance coating materials;

- Water service, purification and treatment design that would use a dual waste system for both solid and liquid waste, the "brown water" and condensate harvesting would be collected, treated and reused in the "non-potable" water systems;
- Building heating and cooling systems would use a combination of absorption and vapor compression equipment for both process and space cooling and Liquid-to-Liquid "Heat Exchangers" for process and space heating;
- Lighting and illumination design would use a combination of natural and LED lighting technology coupled with digital control systems; and
- Building automation systems design would use load monitoring and shedding technology to optimize power generation and minimize power demand through AI software "Smart" technology that identifies and optimizes energy use patterns.

Power and Reclamation Facility

The proposed project will include a power and reclamation facility (PRF) that includes a combination of alternative energy source design features that will provide energy and reclamation services to the project site. Lots 28-31, 32-35, and 47-50 located on the frontage of Atlantic Avenue encompass three Type B buildings that will be decimated for construction and operation of the PRF. Each building utilized for the PRF proposes a maximum height of 55 feet to compensate for the proposed exhaust columns (i.e., boilers). The proposed PRF buildings are the farthest buildings located away from Little Morongo Road and the proposed parapets would obscure views of the exhaust columns of the PRF. The applicant is requesting for an administrative height variance for all dedicated buildings for the proposed PRF for an addition of up to five (5) feet for purposes of allowing sufficient operational height for PRF features such as the proposed cooling towers. Lack of provision of the requested five (5) feet would affect operational capability of the proposed PRF and prevent for alternative energy production and reclamation capabilities.

The PRF will use a combination natural gas fired turbines and reciprocal engines, while the proposed project's peak power generation will be done through a combination of thermal and photovoltaic (PV) solar arrays coupled with battery and thermal energy storage systems. The PRF will also include chilled water and heating water loops to use the waste heat from the onsite power generation to provide heating and air conditioning through the use of absorption chilling for process and space cooling and heat transfer fluid to water heat-exchangers for space and process. In tandem with the solar panel carports, the PRF is anticipated to produce more energy than is needed for the proposed project.

The PRF will meet utility level reliability in operation and comply with all applicable building code and regulatory requirements. The PRF will meet an N+1 equipment environment that ensures that the PRF's systems remain available and operational in the event of component(s) failure. Furthermore, the PRF would operate as a semi closed-loop facility through utilization of reclaimed waste products (i.e., exhaust gases, green waste, wastewater, etc.) derived from onsite operations (i.e., cannabis cultivation) and operations within the PRF itself. The reclaimed waste products will serve as feedstocks for the various power and reclamation systems of the PRF.

The power and reclamation facility will provide the following power and reclamation services:

Electrical Power Generation

Within the PRF, natural gas fired turbine generators would be used as the source of electrical power generation for the proposed project. Natural gas fired turbine generators are proposed to be built in phases concurrent with the proposed phasing of the proposed project buildings. The overall production capacity of the natural gas fired turbines at project build-out would be 60 megawatts (MW). The proposed phased development (discussed below) of the natural gas fired turbine generators would be the following:

- Phase 1 = 20 MW Production Capacity

- Phase 2 = 20 MW Production Capacity
- Phase 3 = 10 MW Production Capacity
- Phase 4 = 10 MW Production Capacity

The natural gas fired turbine generators would be designed to provide local export of excess power to neighboring uses if an agreement between the applicant, City and the local energy purveyor is established at a future time. For purposes of analysis, the natural gas fired turbine generators would not be exporting any excess power to neighboring uses.

Waste Heat Recovery (Steam and Hot Water Systems)

Waste heat recovery, of the PRF, would utilize exhaust gases from the natural gas fired turbine generators to provide an opportunity to extract further low-level heat in order to allow for either the generation of low pressure steam, generation of hot water, or any combination of the two. Conversion of exhaust gases into low-level heat can allow for generation of electricity and direct chilled water. Electricity generation would use Organic Rankine Cycle generators for bottoming power cycle to generate power that can be used to drive mechanical chillers/refrigeration systems. Direct chilled water would utilize lower pressure steam or hot water (or any combination of the two) to run absorption chillers to produce chilled water for sale to agricultural users within the industrial park.

Chilled Water

Chilled water would be produced within the PRF and be used for management of the grow room temperature and humidity within each modular industrial building.

Generation of chilled water requires the installation of cooling water towers within the PRF to address final disposition of lowest level of waste heat. Cooling water towers will require significant water and power to operate, however, are more efficient relative to multiple smaller chilling systems which would otherwise be installed within each proposed industrial modular building. Sizing of the cooling towers will be determined at final design of the proposed project.

Pure (Reverse Osmosis) Quality Water

The PRF would include a reverse osmosis (RO) water treatment system to upgrade municipal water and recycled (grey) water to high standards which allows distribution for use by potential agricultural tenants within the proposed project. The RO water treatment system would facilitate management of wastewater and associated compliance with discharge permits. Additionally, the RO water treatment system would provide an agricultural feed of high-quality water to agricultural tenants of the proposed project to reduce crop failure issues.

Fire Water System

The PRF would include a fire water system to serve the entire project site in order to meet the regulatory requirements for the proposed project. It is anticipated that the sizing of the distribution mains will need to address future build-out of the proposed project.

Grey/Wastewater Recovery Treatment

The PRF will include grey/wastewater recovery treatment to reclaim onsite wastewater generated in office buildings from sinks, baths, washing machines, etc. Grey/wastewater is anticipated to be available from the following onsite sources:

- Byproduct of humidity control (water of plant respiration);

- Collection of process drains (wash down water, etc.) from both utility and proposed building systems;
- Recycling of process and dilution water used in the Bio-Digestion system(s) of the PRF; and
- Cooling Tower.

Water Distribution

The PRF will have the capability to serve as a point of distribution of potable water for domestic uses only to the proposed buildings.

Carbon Dioxide gas – Generation and Distribution

Carbon dioxide (CO_2) gas is used to enrich the growing atmosphere of the crops to improve productivity of the plants. Capture of carbon dioxide is anticipated to be captured from the cooled exhaust gases of the natural gas fired turbine generators. Several technologies exist for capture and will be evaluated for best economic value versus the production need prior to final design.

Agricultural Waste Management

The PRF will include a Bio-Digester system to facilitate capture and management of agricultural waste produced onsite. Agricultural waste from the production facilities must be cataloged and disposed of via a tracking system to a licensed landfill facility in the State. Several landfill facilities are operating in the greater Los Angeles area. Provision of onsite waste management services via installation of a licensed agricultural waste disposal system (Bio-Digester system) would benefit potential tenants of the proposed project through minimization of the risk of transfer of agricultural waste, greenhouse gas (GHG) emissions of routine transport trips to a licensed landfill facility, and overall cost of such routine waste transport.

The Bio-Digester system would require input of low-level heat and could utilize the recovered waste low-level waste heat mentioned above.

The site plan is shown in Figure 2

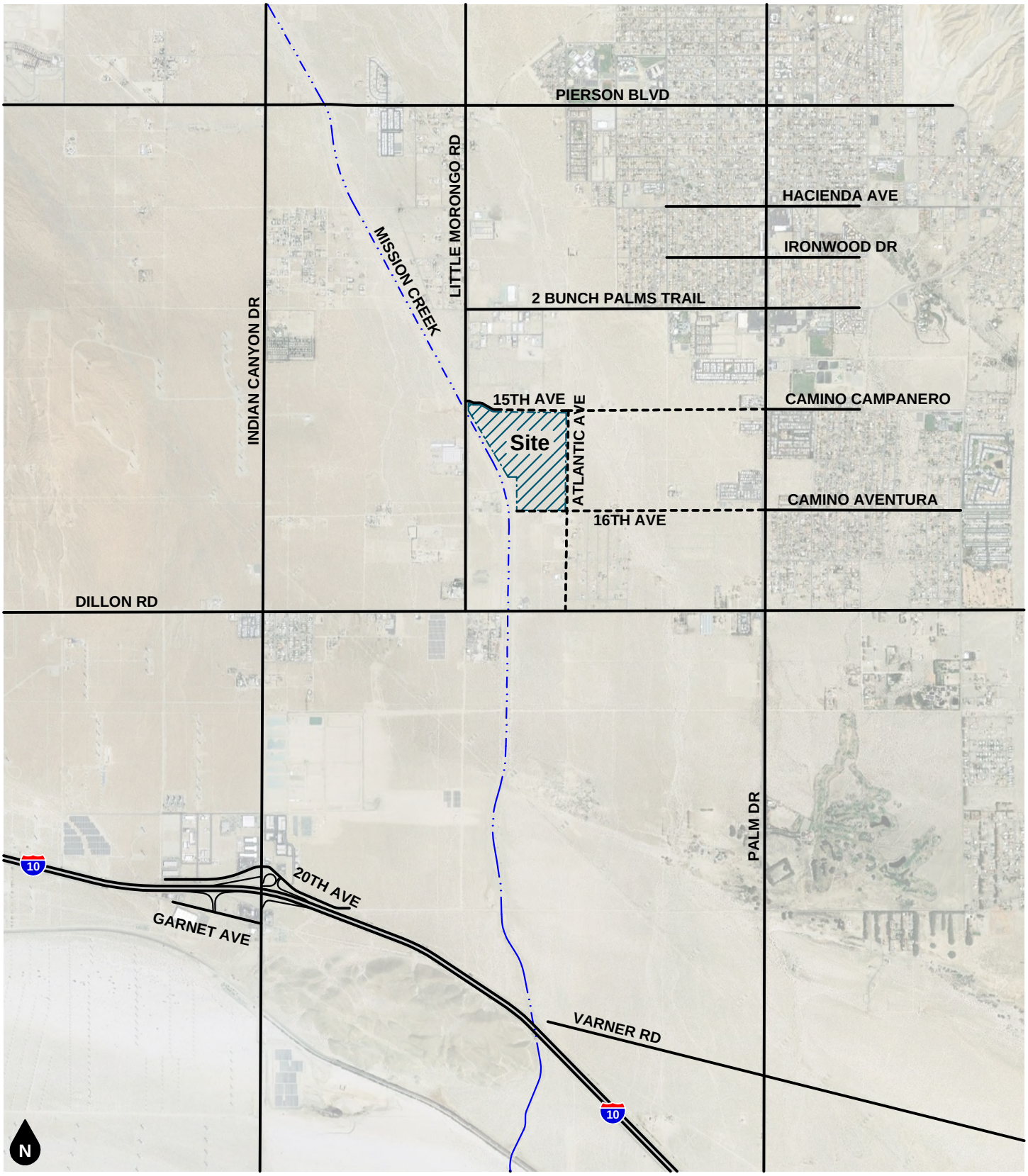


Figure 1
Project Location Map

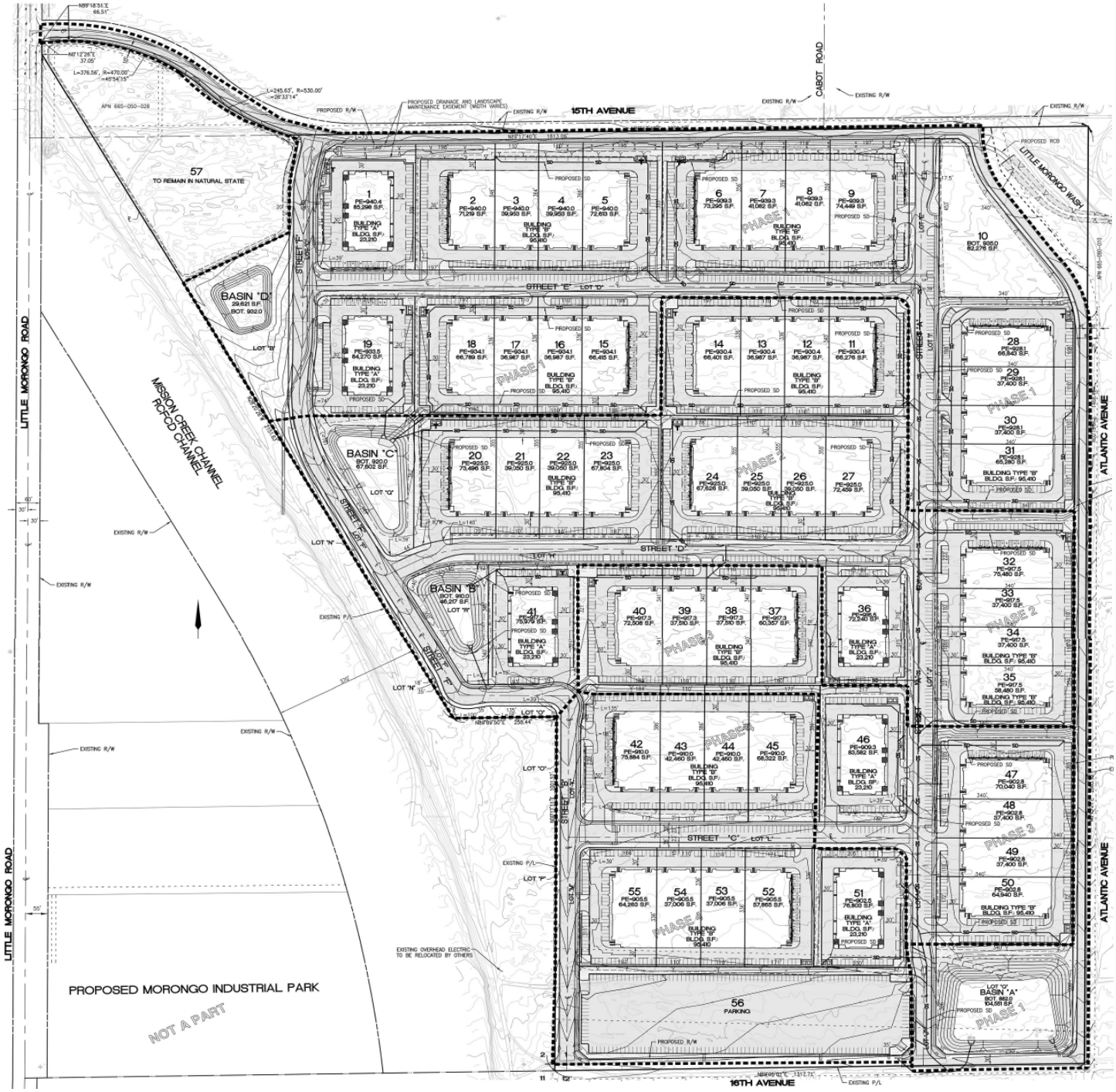


Figure 2
Site Plan

2. NOISE AND VIBRATION FUNDAMENTALS

NOISE FUNDAMENTALS

Sound is a pressure wave created by a moving or vibrating source that travels through an elastic medium such as air. Noise is defined as unwanted or objectionable sound. The effects of noise on people can include general annoyance, interference with speech communication, sleep disturbance, and in extreme circumstances, hearing impairment.

Commonly used noise terms are presented in Appendix B. The unit of measurement used to describe a noise level is the decibel (dB). The human ear is not equally sensitive to all frequencies within the sound spectrum. Therefore, the "A-weighted" noise scale, which weights the frequencies to which humans are sensitive, is used for measurements. Noise levels using A-weighted measurements are written dB(A) or dBA.

From the noise source to the receiver, noise changes both in level and frequency spectrum. The most obvious is the decrease in noise as the distance from the source increases. The manner in which noise reduces with distance depends on whether the source is a point or line source as well as ground absorption, atmospheric effects and refraction, and shielding by natural and manmade features. Sound from point sources, such as air conditioning condensers, radiates uniformly outward as it travels away from the source in a spherical pattern. The noise drop-off rate associated with this geometric spreading is 6 dBA per each doubling of the distance (dBA/DD). Transportation noise sources such as roadways are typically analyzed as line sources, since at any given moment the receiver may be impacted by noise from multiple vehicles at various locations along the roadway. Because of the geometry of a line source, the noise drop-off rate associated with the geometric spreading of a line source is 3 dBA/DD.

Decibels are measured on a logarithmic scale, which quantifies sound intensity in a manner similar to the Richter scale used for earthquake magnitudes. Thus, a doubling of the energy of a noise source, such as a doubled traffic volume, would increase the noise levels by 3 dBA; halving of the energy would result in a 3 dBA decrease. Figure 3 shows the relationship of various noise levels to commonly experienced noise events.

Average noise levels over a period of minutes or hours are usually expressed as dBA L_{eq}, or the equivalent noise level for that period of time. For example, $L_{eq(3\text{-}hr)}$ would represent a 3-hour average. When no period is specified, a one-hour average is assumed.

Noise standards for land use compatibility are stated in terms of the Community Noise Equivalent Level (CNEL) and the Day-Night Average Noise Level (DNL). CNEL is a 24-hour weighted average measure of community noise. CNEL is obtained by adding five decibels to sound levels in the evening (7:00 PM to 10:00 PM), and by adding ten decibels to sound levels at night (10:00 PM to 7:00 AM). This weighting accounts for the increased human sensitivity to noise during the evening and nighttime hours. DNL is a very similar 24-hour average measure that weights only the nighttime hours.

It is widely accepted that the average healthy ear can barely perceive changes of 3 dBA; that a change of 5 dBA is readily perceptible, and that an increase (decrease) of 10 dBA sounds twice (half) as loud. This definition is recommended by the California Department of Transportation's Technical Noise Supplement to the Traffic Noise Analysis Protocol (2013).

VIBRATION FUNDAMENTALS

The way in which vibration is transmitted through the earth is called propagation. Propagation of earthborn vibrations is complicated and difficult to predict because of the endless variations in the soil through which waves travel. There are three main types of vibration propagation: surface, compression and shear waves. Surface waves, or Raleigh waves, travel along the ground's surface. These waves carry most of their energy along an expanding circular wave front, similar to ripples produced by throwing a rock into a pool of water.

Compression waves, or P-waves, are body waves that carry their energy along an expanding spherical wave front. The particle motion in these waves is longitudinal (i.e., in a "push-pull" fashion). P-waves are analogous to airborne sound waves. Shear waves, or S-waves, are also body waves that carry energy along an expanding spherical wave front. However, unlike P-waves, the particle motion is transverse or "side-to-side and perpendicular to the direction of propagation".

As vibration waves propagate from a source, the energy is spread over an ever-increasing area such that the energy level striking a given point is reduced with the distance from the energy source. This geometric spreading loss is inversely proportional to the square of the distance. Wave energy is also reduced with distance as a result of material damping in the form of internal friction, soil layering, and void spaces. The amount of attenuation provided by material damping varies with soil type and condition as well as the frequency of the wave.

Vibration amplitudes are usually expressed as either peak particle velocity (PPV) or the root mean square (RMS) velocity. The PPV is defined as the maximum instantaneous peak of the vibration signal in inches per second. The RMS of a signal is the average of the squared amplitude of the signal in vibration decibels (VdB), ref one micro-inch per second. The Federal Railroad Administration uses the abbreviation "VdB" for vibration decibels to reduce the potential for confusion with sound decibel.

PPV is appropriate for evaluating the potential of building damage and VdB is commonly used to evaluate human response. Decibel notation acts to compress the range of numbers required in measuring vibration. Similar to the noise descriptors, L_{eq} and L_{max} can be used to describe the average vibration and the maximum vibration level observed during a single vibration measurement interval. Figure 4 illustrates common vibration sources and the human and structural responses to ground-borne vibration. As shown in the figure, the threshold of perception for human response is approximately 65 VdB; however, human response to vibration is not usually substantial unless the vibration exceeds 70 VdB. Vibration tolerance limits for sensitive instruments such as magnetic resonance imaging (MRI) or electron microscopes could be much lower than the human vibration perception threshold.

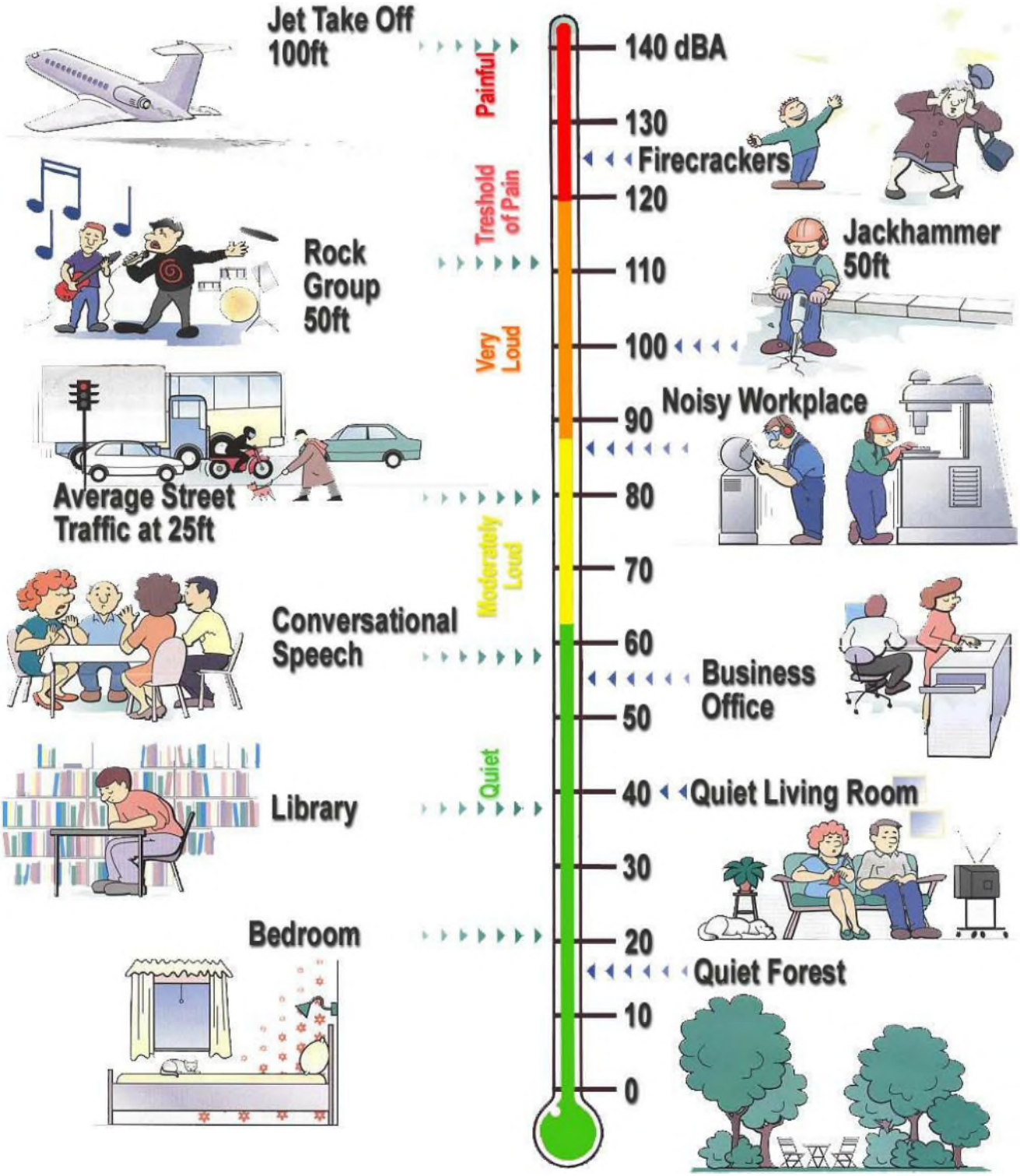
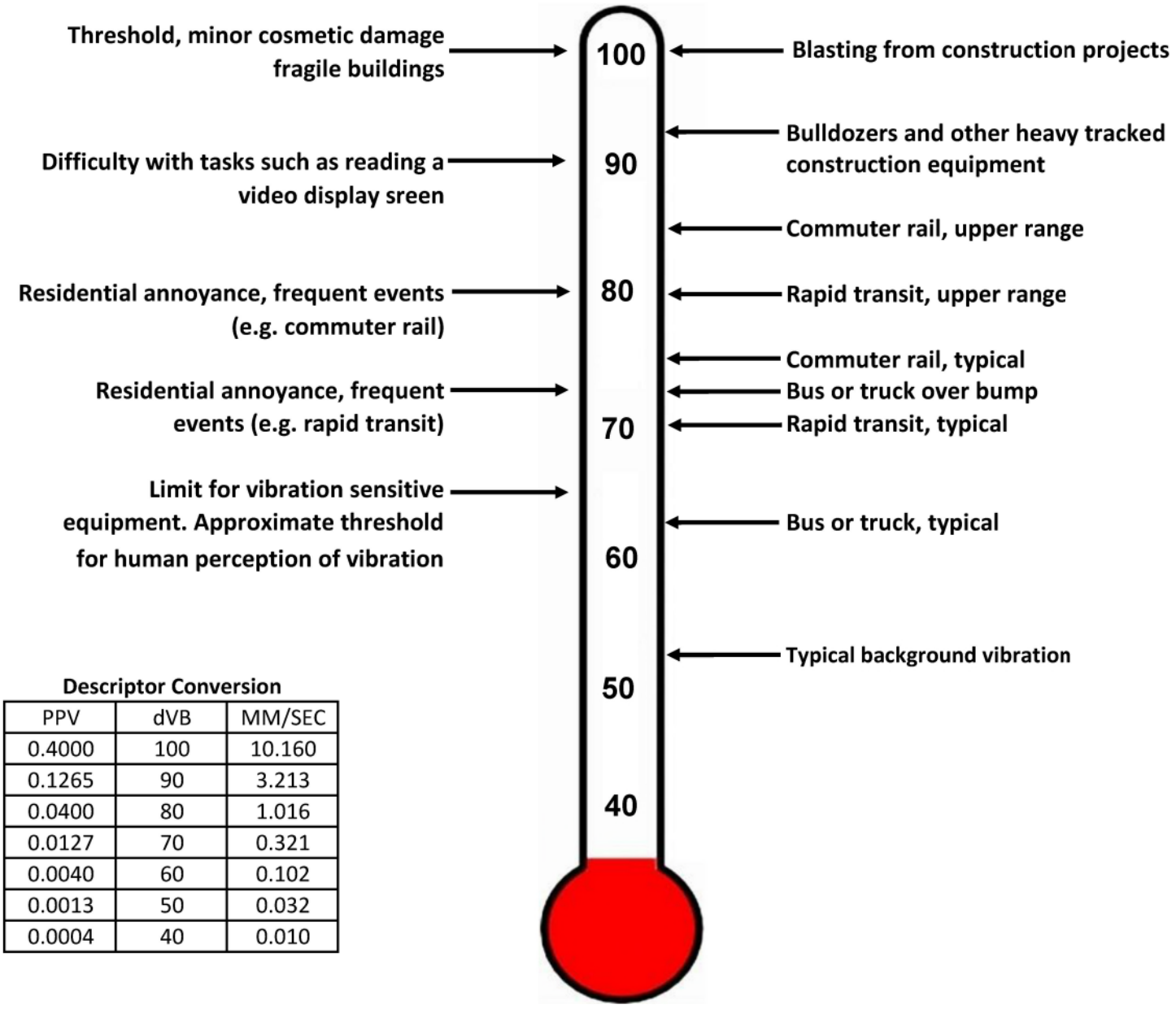


Figure 3
Weighted Sound Levels and Human Response

Source: Bruel & Kjaer 2001



Descriptor Conversion

PPV	dVB	MM/SEC
0.4000	100	10.160
0.1265	90	3.213
0.0400	80	1.016
0.0127	70	0.321
0.0040	60	0.102
0.0013	50	0.032
0.0004	40	0.010

Source: FRA, 2012. Federal Railroad Administration High-Speed Ground Transportation Noise and Vibration Impact Assessment. Office of Railroad Policy Development, Washington, D.C. DOT/FRA/ORD-12/15. September.

Figure 4
Typical Levels of Groundborne Vibration

3. EXISTING NOISE ENVIRONMENT

SENSITIVE NOISE RECEPTORS

The State of California defines sensitive receptors as those land uses that require serenity or are otherwise adversely affected by noise events or conditions. Schools, libraries, churches, hospitals, and residential uses make up the majority of these areas. In addition, the City of Desert Hot Spring's General Plan Noise Element identifies sensitive receptors as residences, schools, libraries, churches, hospitals, nursing homes, and resort areas. The General Plan also states that parks, golf courses and other outdoor activity areas can be sensitive to noise disturbances as well.

Sensitive receptors that may be affected by project generated vehicular trips include the single-family detached residential dwelling units located as close as approximately 0.05 miles (~270 feet) to the southeast, 0.53 mile to the southwest, and 0.60 mile to the northeast of the project site. Mobile home parks are located approximately 0.65 miles to the northeast and 0.75 miles to the east of the project site. In addition, Two Bunch Palms Elementary School is located approximately 0.62 miles northeast of the project site.

EXISTING NOISE LEVELS

An American National Standards Institute (ANSI Section SI4 2013 Class 1) Larson Davis model LxT sound level meter was used to document existing ambient noise levels. In order to document existing ambient noise levels in the project area, five (5) 15-minute daytime noise measurements were taken between 10:44 AM and 3:06 PM on August 10, 2020. In addition, one (1) long-term 24-hour noise measurement was also taken from August 10, 2020 to August 11, 2020. Field worksheets and noise measurement output data are included in Appendix C.

As shown on Figure 5, the noise measurements were taken near the residential use located east of West Drive (STNM1), near the school and residential uses to the northeast of the project site (along West Drive) (STNM2), north of the project site along Palomar Lane (STNM3), near the at the nearest residential uses to th west of the project site (along Vermillion Drive) (STNM4), near the closest residential uses to the south of the project site (along Atlantic Avenue) (STNM5), and at the southeastern boundary of the project site (near Atlantic Avenue) (LTNM1). Table 1 provides a summary of the short-term ambient noise data. Table 2 provides hourly interval ambient noise data from the long-term noise measurement. Short-term ambient noise levels were measured between 36.4 and 46.2 dBA L_{eq}. Long-term hourly noise measurement ambient noise levels ranged from 35.9 to 56.5 dBA L_{eq}. The dominant noise sources were from wildlife, wind, machinery, and residential noise.

Table 1
Short-Term Noise Measurement Summary (dBA)

Daytime Measurements[1,2]								
Site Location	Time Started	Leq	Lmax	Lmin	L(2)	L(8)	L(25)	L(50)
STNM1	10:44 AM	37.2	46.8	28.1	44.3	38.8	34.5	32.0
STNM2	11:54 AM	36.4	52.7	29.3	42.7	39.6	36.3	34.0
STNM3	12:52 PM	46.2	53.9	43.1	49.4	47.9	46.7	45.8
STNM4	1:43 PM	40.4	53.0	33.3	47.1	43.1	40.7	38.3
STNM5	2:51 PM	44.8	57.3	36.9	50.7	48.8	45.5	42.6

Notes:
(1) See Figure 5 for noise measurement locations. Each noise measurement was performed over a 15-minute duration.
(2) Noise measurements performed on August 10, 2020.

Table 2
Long-Term Noise Measurement Summary (dBA)

24-Hour Ambient Noise[1,2]								
Hourly Measurements	Time Started	Leq	Lmax	Lmin	L(2)	L(8)	L(25)	L(50)
Overall Summary	5:00 PM	49.3	71.0	30.3	59.3	53.9	45.8	40.3
1	5:00 PM	52.8	68.8	35.2	61.0	57.0	52.7	48.8
2	6:00 PM	55.1	68.4	38.8	62.2	59.5	56.0	52.2
3	7:00 PM	55.6	67.7	38.7	62.9	60.0	56.3	52.4
4	8:00 PM	56.5	71.0	38.6	64.4	61.3	56.9	52.4
5	9:00 PM	47.0	63.9	36.2	55.0	51.4	46.5	42.6
6	10:00 PM	47.1	62.7	33.7	55.4	51.6	47.2	42.5
7	11:00 PM	42.0	57.8	35.0	49.4	45.6	41.4	39.0
8	12:00 AM	42.7	57.3	34.1	50.4	46.7	42.6	39.3
9	1:00 AM	45.5	65.7	34.8	53.3	49.1	43.0	38.8
10	2:00 AM	39.2	59.2	33.3	44.1	40.1	37.9	36.6
11	3:00 AM	38.0	55.3	32.8	42.9	39.2	37.6	36.6
12	4:00 AM	38.4	52.0	33.8	42.9	41.0	38.9	37.3
13	5:00 AM	40.2	51.3	35.3	44.1	42.4	40.9	39.5
14	6:00 AM	42.3	52.7	37.3	46.7	44.1	42.7	41.8
15	7:00 AM	41.8	55.4	36.9	46.2	43.5	42.1	41.0
16	8:00 AM	45.1	60.3	35.1	52.9	49.0	44.8	41.6
17	9:00 AM	44.2	58.7	34.2	52.2	48.3	44.2	40.8
18	10:00 AM	41.7	59.6	33.1	50.4	45.4	40.2	37.5
19	11:00 AM	38.0	51.5	31.3	44.0	41.0	38.3	36.5
20	12:00 PM	37.9	51.0	31.4	44.4	41.5	37.8	35.7
21	1:00 PM	43.9	67.2	30.3	48.1	42.1	38.2	35.9
22	2:00 PM	35.9	48.0	30.8	41.3	38.2	36.2	34.9
23	3:00 PM	50.0	69.7	30.5	59.3	54.5	48.9	43.1
24	4:00 PM	54.1	67.2	33.8	62.0	58.9	54.7	50.3

Notes:

(1) See Figure 5 for noise measurement locations. Noise measurement was performed over a 24-hour duration.

(2) Noise measurement performed from August 10, 2020 to August 11, 2020.



Legend

NM 1 Noise Measurement Location

ST NM Short-Term Noise Measurement

LT NM Long-Term Noise Measurement

Figure 5
Noise Measurement Location Map

4. REGULATORY SETTING

FEDERAL REGULATIONS

Federal Noise Control Act of 1972

The U.S. Environmental Protection Agency (EPA) Office of Noise Abatement and Control was originally established to coordinate federal noise control activities. After its inception, EPA's Office of Noise Abatement and Control issued the Federal Noise Control Act of 1972, establishing programs and guidelines to identify and address the effects of noise on public health, welfare, and the environment. In response, the EPA published Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety (Levels of Environmental Noise). The Levels of Environmental Noise recommended that the L_{dn} should not exceed 55 dBA outdoors or 45 dBA indoors to prevent significant activity interference and annoyance in noise-sensitive areas.

In addition, the Levels of Environmental Noise identified 5 dBA as an "adequate margin of safety" for a noise level increase relative to a baseline noise exposure level of 55 dBA L_{dn} (i.e., there would not be a noticeable increase in adverse community reaction with an increase of five dBA or less from this baseline level). The EPA did not promote these findings as universal standards or regulatory goals with mandatory applicability to all communities, but rather as advisory exposure levels below which there would be no risk to a community from any health or welfare effect of noise.

In 1981, EPA administrators determined that subjective issues such as noise would be better addressed at lower levels of government. Consequently, in 1982 responsibilities for regulating noise control policies were transferred to State and local governments. However, noise control guidelines and regulations contained in EPA rulings in prior years remain in place by designated Federal agencies, allowing more individualized control for specific issues by designated Federal, State, and local government agencies.

STATE REGULATIONS

State of California General Plan Guidelines 2017

Though not adopted by law, the State of California General Plan Guidelines 2003, published by the California Governor's Office of Planning and Research (OPR) (OPR Guidelines), provides guidance for the compatibility of projects within areas of specific noise exposure. The OPR Guidelines identify the suitability of various types of construction relative to a range of outdoor noise levels and provide each local community some flexibility in setting local noise standards that allow for the variability in community preferences. Findings presented in the Levels of Environmental Noise Document (EPA 1974) influenced the recommendations of the OPR Guidelines, most importantly in the choice of noise exposure metrics (i.e., L_{dn} or CNEL) and in the upper limits for the normally acceptable outdoor exposure of noise-sensitive uses.

The OPR Guidelines include a Noise and Land Use Compatibility Matrix which identifies acceptable and unacceptable community noise exposure limits for various land use categories. Where the "normally acceptable" range is used, it is defined as the highest noise level that should be considered for the construction of the buildings which do not incorporate any special acoustical treatment or noise mitigation. The "conditionally acceptable" or "normally unacceptable" ranges include conditions calling for detailed acoustical study or construction mitigation to reduce interior exposure levels prior to the construction or operation of the building under the listed exposure levels. The City of Desert Hot Springs has incorporated these guidelines in the City's General Plan Noise Element.

California Environmental Quality Act

The California Environmental Quality Act Guidelines (Appendix G) establishes thresholds for noise impact analysis. This noise study includes analysis of noise and vibration impacts necessary to assess the project in light of the following Appendix G Checklist Thresholds.

Would the project result in:

a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Substantial increases in ambient noise levels are usually associated with project construction noise (temporary) and project operational noise (permanent).

Project Construction Noise: Construction noise sources are regulated within the City of Desert Hot Springs under Section 9.04.030 of the City's Municipal Code which prohibits construction between the hours of 5:00 PM of each day and 7:00 AM of the next day, except when daylight savings time is in effect. During such time as daylight savings time is in effect in the City, no such activities shall be permitted between the hours of 6:00 PM of each day and 6:00 AM of the next day. No such activities shall be permitted on Sundays.

Project Operational Noise (permanent): The proposed project has the potential to generate on-site and off-site noise. For on-site generated noise, the City of Desert Hot Springs Municipal Code Section 17.40.180 states that exterior noise levels shall not exceed 65 dBA and interior noise levels shall exceed 45 dBA in residential areas.

For off-site project generated noise, increases in ambient noise along affected roadways due to project generated vehicle traffic is considered substantial if they result in an increase of at least 3 dBA CNEL and: (1) the existing noise levels already exceed the applicable land use compatibility standard for the affected sensitive receptors set forth in the City's General Plan; or (2) the project increases noise levels by at least 3 dBA CNEL and raises the ambient noise level from below the applicable standard to above the applicable standard.

b) Generate excessive groundborne vibration or groundborne noise levels?

As shown in Table 9, the threshold at which there is a risk to "architectural" damage to historic and some older buildings is a peak particle velocity (PPV) of 0.25, at older residential structures a PPV of 0.3, and at new residential structures a PPV of 0.5. Table 8 shows that a PPV of 0.04 is the threshold at which groundborne vibration becomes distinctly perceptible in regards to annoyance. Impacts would be significant if construction activities result in groundborne vibration of 0.25 PPV or higher at a sensitive receptor.

Furthermore, Section 17.40.300 of the City of Desert Hot Springs states no vibration associated with any use shall be permitted which is discernible beyond the boundary line of the property.

California Department of Transportation (Caltrans)

The California Department of Transportation has published one of the seminal works for the analysis of ground-borne noise and vibration relating to transportation- and construction-induced vibrations and although the project is not subject to these regulations, it serves as useful tools to evaluate vibration impacts. These guidelines recommend that a standard of 0.2 inches per second (in/sec) PPV not be exceeded for the protection of historic and some old buildings (California Department of Transportation, 2020). This is the appropriate threshold for construction related ground-borne vibration impacts.

LOCAL REGULATIONS

City of Desert Hot Springs General Plan Noise Element

The City of Desert Hot Springs General Plan has Land Use Compatibility for Community Noise Exposure standards, shown in Table 3. The interior and exterior noise standards are in terms of the Community Noise Equivalent Level (CNEL). The standards state that for residential land uses, exterior noise exposure levels of up to 60 CNEL are considered "normally acceptable" and noise levels of up to 65 CNEL are considered "conditionally acceptable". Heavy Commercial/Industrial land uses are considered "normally acceptable" in environments where the noise level reaches up to 75 CNEL.

The City of Desert Hot Springs General Plan Noise Element includes the following goals and policies that pertain to the proposed project.

Goal

A noise environment providing peace and quiet that complements and is consistent with the City's spa resort and residential character and the various mix of land uses comprising the community.

Policy 1
The potential of land use patterns, associated traffic and its distribution, and individual development shall be assessed for their potential to generate adverse and incompatible noise impacts, and significant impacts identified shall be appropriately mitigated.

Policy 2
Protect noise sensitive land uses, including residences, resorts and community open space, schools, libraries, churches, hospitals and convalescent homes from high noise levels from both existing and future noise sources.

City of Desert Hot Springs Municipal Code

City of Desert Hot Springs Municipal Ordinances applicable to the evaluation of the proposed project in this analysis include the following:

Section 8.12.030 of the Municipal Ordinance states it is unlawful for any person to make, suffer, permit, allow, continue, or cause to be made, suffered, permitted, allowed, or continued, within the City limits or within 200 feet thereof, any noise disturbance. Per Section 8.12.020 a noise disturbance is any sound that:

1. Endangers the safety or health of any person;
2. Disturbs a reasonable person of normal sensitivities; or
3. Endangers personal or real property.

Section 8.12.090 of the Municipal Ordinance states that it is unlawful for any person to cause, suffer, allow, or permit any of the following outside of the following hours: Monday through Friday, 7:00 AM through 6:00 PM; Saturday, 8:00 AM through 6:00 PM and Sunday, 9:00 AM through 5:00 PM.

- Loading, unloading, opening, closing or other handling of boxes, crates, containers, building materials, garbage cans, or similar objects in such a manner as to cause a noise disturbance across a residential real property boundary.
- Operating any mechanically powered saw, sander, drill, grinder, lawn or garden tool, or similar device so as to cause a noise disturbance across a residential real property boundary.

Section 8.12.100 of the Ordinance states that it is unlawful for any person to cause, suffer, allow or permit any construction, drilling or demolition work, or the use of tools or equipment therefore, between the hours

of 5:00 PM of each day and 7:00 AM of the next day, except when daylight savings time is in effect. During such time as daylight savings time is in effect in the City, no such activities shall be permitted between the hours of 6:00 PM of each day and 6:00 AM of the next day. No such activities shall be permitted on Sundays.

Section 9.04.030 of the Ordinance states except as herein otherwise provided, no person shall be engaged or employed nor shall any person cause any other person to be engaged or employed in any work of construction, erection, alteration, or repair, addition to or improvement of any building, structure, road or improvement to realty between the hours of 5:00 PM of each day and 7:00 AM of the next day, except when daylight savings time is in effect. During such time as daylight savings time is in effect in the City, no such activities shall be permitted between the hours of 6:00 PM of each day and 6:00 AM of the next day. No such activities shall be permitted on Sundays.

Section 17.40.180 No loudspeaker, bells, gongs, buzzers, mechanical equipment or other sounds, attention attracting, or communication device associated with any use shall be discernible beyond any boundary line of the parcel, except fire protection devices, burglar alarms and church bells. The following provisions shall apply:

A. In residential areas, no exterior noise level shall exceed 65 dBA and no interior noise level shall exceed 45 dBA.

C. The minimum acceptable surface weight for a noise barrier is 4 pounds per square foot (equivalent to 3/4-inch plywood). The barrier shall be of a continuous material which is resistant to sound including: (1) masonry block; (2) precast concrete; or (3) earth berm or a combination of earth berm with block concrete.

D. Noise barriers shall interrupt the line of sight between noise source and receiver.

Section 17.40.300 of the Ordinance states no vibration associated with any use shall be permitted which is discernible beyond the boundary line of the property.

Table 3
City of Desert Hot Springs Land Use Compatibility Guidelines for Noise

Land Use Category	Community Noise Equivalent Level (CNEL)					
	55	60	65	70	75	80
Residential Land Uses: Single-family & Multi-family, Group Quarters, Mobile Homes						
Transient Lodging: Hotels & Motels						
School Classrooms, Libraries, Churches, Hospitals, Nursing Homes, & Convalescent Hospitals						
Recreation Land Uses: Golf Courses, Open Space (with walking, bicycling, or horseback riding trails, etc.)						
Office Buildings, Personal Business, & Professional Services						
Commercial Land Uses: Retail Trade, Movie Theaters, Restaurants, Bars, Entertainment Activities, Services						
Heavy Commercial/Industrial: Wholesale, Manufacturing, Utilities, Transportation, Communications						
Auditoriums, Concert Halls, Amphi-theaters, Music Shells (may be sensitive receptors or generators)						
Sports Arenas, Outdoor Spectator Sports						

Normally Acceptable:	Specified land use is satisfactory, based up the assumption that any buildings involved are of normal conventional construction, without any special noise insulation requirements.
Conditionally Acceptable:	New construction or development should be undertaken only after a detailed analysis of the noise reduction requirements is made and needed insulation features included in the design. Conventional constuction, but with closed windows and fresh air supply systems or air conditioning will normally suffice.
Normally Unacceptable:	New construction or development should generally be discouraged. If new construction or development does proceed, a detailed analysis of the noise reduction requirements must be made and needed noise reduction features included in the design.
Clearly Unacceptable:	New construction or development should generally not be undertaken.

Source: California Governor's Office of Planning and Research, State of California General Plan Guidelines, Appendix C: Guidelines for the Preparation and Content of Noise Elements of the General Plan, February 1976 and City of Desert Hot Springs General Plan, 2000.

5. ANALYTICAL METHODOLOGY AND MODEL PARAMETERS

This section discusses the analysis methodologies used to assess noise impacts.

CONSTRUCTION NOISE MODELING

A worst-case construction noise scenario was modeled using the Federal Highway Administration's Roadway Construction Noise Model (RCNM). Modeling parameters and output are provided in Appendix D. RCNM utilizes standard noise emission levels for many different types of equipment and includes utilization percentage, impact, and shielding parameters.

FEDERAL HIGHWAY ADMINISTRATION (FHWA) TRAFFIC NOISE PREDICTION MODEL

Existing and Existing Plus Project noise levels along roadways affected by the proposed project and along roadways that may affect the proposed project were modeled utilizing the FHWA Traffic Noise Prediction Model - FHWA-RD-77-108.

The FHWA Traffic Noise Prediction Model arrives at a predicted noise level through a series of adjustments to the Reference Energy Mean Emission Level (REMEL). Adjustments are then made to the REMEL to account for: total average daily trips (ADT), roadway classification, width, speed and truck mix, roadway grade and site conditions (hard or soft ground surface). Surfaces adjacent to all modeled roadways were assumed to have a "hard site" to predict worst-case, conservative noise levels. A hard site, such as pavement, is highly reflective and does not attenuate noise as quickly as grass or other soft sites. Possible reductions in noise levels due to intervening topography and buildings were not accounted for in this analysis.

Existing and Existing Plus Project average daily traffic volumes were obtained from the project's Traffic Impact Analysis (Ganddini Group, Inc., 2019). Vehicle/truck mixes and D/E/N splits for use in acoustical studies published by the Riverside County Department of Industrial Hygiene were utilized for noise modeling. The City of Desert Hot Springs does not have vehicle/truck mixes or Day/Evening/Night (D/E/N) splits published for use in acoustical studies. Existing Plus Project vehicle mixes were calculated by adding the proposed project trips to existing conditions. FHWA spreadsheets are included in Appendix E.

SOUNDPLAN NOISE MODEL

The SoundPLAN acoustical modeling software was utilized to model project operational worst-case stationary noise impacts from the proposed project to adjacent sensitive uses (e.g., residences). SoundPLAN is capable of evaluating stationary noise sources (e.g., parking lots, heating and ventilation units (HVAC), drive-thru menus, carwash equipment, vacuums, etc.). The SoundPLAN software utilizes algorithms (based on the inverse square law) to calculate noise level projections. The software allows the user to input specific noise sources, spectral content, sound barriers, building placement, topography, and sensitive receptor locations. In addition to the information provided below, noise modeling input and outputs assumptions are provided in Appendix F.

Peak hour operational noise levels were modeled utilizing representative sound levels in the SoundPLAN model. Modeled noise sources include power plant equipment, loading and unloading activities, parking lot noise, and HVAC equipment.

Power Plant Equipment Noise

Plans detailing the proposed equipment and sound power levels for the proposed power plant are provided in Appendix F. In order to estimate exterior noise levels associated with equipment located inside a structure and/or below ground, the sound power level, associated with the loudest above ground equipment (85 Lw) minus 20 dB (to account for the attenuation provided by the structure and parapets) was applied to the outside

walls of all of the proposed power plant buildings. This same methodology was also applied to a horizontal plane at the elevation of the highest equipment.

Parking Lot Noise /Cargo Loading/Unloading

Typical parking lot noise includes car doors slamming, engines starting-up, alarm activation and car pass-by's. Loading and unloading activities associated with the proposed project are expected to include the loading and unloading of pallets and smaller packages. Parking lot noise and cargo loading/unloading was calculated using SoundPLAN a SoundPLan noise reference spectral data and a representative noise level of 60 dB Leq / square meter.

Mechanical Equipment (HVAC Units) Noise

A noise reference level of 67.7 dBA at 3 feet (sound power level of 78.7 dB) was utilized to represent rooftop 5 Ton Carrier HVAC units.[1] A rooftop HVAC plan is not available at the time of this analysis so the exact location and number of units per building were estimated. A total of 42 rooftop units were modeled on the proposed rooftops. The noise source height for each HVAC unit was assumed at one (1) meter above the roof top. Roof tops are assumed to be approximately 18 feet above grade. The power plant structures were modeled at a height of 55 feet above grade.

[1] MD Acoustics, LLC Noise Measurement Data for RTU –Carrier 50TFQ0006 and car alarm.

6. IMPACT ANALYSIS

This impact discussion analyzes the potential for project construction noise and operational noise to cause an exposure of person to or generation of noise levels in excess of established City of Desert Hot Springs noise standards related to construction noise, transportation, and stationary related noise impacts both to the proposed project and caused by the proposed project.

IMPACTS RELATED TO CONSTRUCTION NOISE

Construction noise varies depending on the construction process, type of equipment involved, location of the construction site with respect to sensitive receptors, the schedule proposed to carry out each task (e.g., hours and days of the week) and the duration of the construction work. Development of the proposed project will generally be completed in four phases, grading, facility construction, paving, and application of architectural coatings.

Typical noise sources and noise levels associated with construction are shown in Table 4. Site grading would generate the loudest noise levels. A worst-case construction noise scenario was modeled using the Road Construction Noise Model (RCNM) provided by the FHWA assuming the use of a grader, two backhoes, a dozer, scraper, and a water truck (modeled as a dump truck). All equipment was modeled operating simultaneously at staggered distance between 25 and 350 feet from the property line. The RCNM modeling did not take into account any possible shielding affects associated with existing or proposed intervening structures or topography and therefore represents a worst-case scenario. Modeling input and output data are included in Appendix D.

Worst-case construction noise levels could reach 87.2 dBA L_{eq} and 91.0 dBA L_{max} at the property line of the proposed project. The nearest sensitive receptor is located approximately 270 feet southeast of the proposed project's southern property line. Project construction noise levels may reach up to 63.5 dBA L_{eq} and 66.9 dBA L_{max} at this receptor. These noise levels will substantially exceed ambient noise levels and may temporarily annoy adjacent and nearby residents. However, compliance with City Ordinance 9.04.030 will limit impacts to day-time hours and avoid nighttime and early morning impacts when people are generally more sensitive to noise. Implementation of Mitigation Measures 1-5 in Section 7 of this report will further reduce construction noise levels during the day.

NOISE IMPACTS TO OFF-SITE RECEPTORS DUE TO PROJECT GENERATED TRIPS

The proposed project is expected to generate 3,665 passenger car equivalent trips per day (ADT).[2] A worst-case project generated traffic noise level was modeled utilizing the FHWA Traffic Noise Prediction Model - FHWA-RD-77-108. Traffic noise levels were calculated at 50 feet from the centerline of the analyzed roadway. The modeling is theoretical and does not take into account any existing barriers, structures, and/or topographical features that may further reduce noise levels. Therefore, the levels are shown for comparative purposes only to show the difference in with and without project conditions. Roadway input parameters including average daily traffic volumes (ADTs), speeds, and vehicle distribution data is shown in Table 5. The potential off-site noise impacts caused by an increase of traffic from operation of the proposed project on the nearby roadways were calculated for the following scenarios:

[2] Per the most recent Traffic Impact Analysis (TIA) prepared for the proposed project (Ganddini Group, Inc. May 2019). The TIA was based on a previous version of the proposed site plan that included 364,180 square feet of general light industrial use and 920,000 square feet of industrial park (cannabis activity) use for a total building square footage of 1,284,180 square feet. Therefore, the off-site traffic analysis provided in this report is conservative and shows a worst-case analysis as the general light industrial and industrial park square footages have since been decreased to 236,180 square feet of general light industrial uses and 761,770 square feet of industrial park (cannabis activity) use. The square footage of the Power Reclamation Facility buildings equals the square footage reduction of the industrial uses.

Existing Year (without Project): This scenario refers to existing year traffic noise conditions and is demonstrated in Table 5.

Existing Year (With Project): This scenario refers to existing year plus project traffic noise conditions and is demonstrated in Table 5.

For off-site project generated noise, increases in ambient noise along affected roadways due to project generated vehicle traffic is considered substantial if they result in an increase of at least 3 dBA CNEL and: (1) the existing noise levels already exceed the applicable land use compatibility standard for the affected sensitive receptors set forth in the City's General Plan; or (2) the project increases noise levels by at least 3 dBA CNEL and raises the ambient noise level from below the applicable standard to above the applicable standard.

As shown in Table 5, measured and modeled existing traffic noise levels range between 60.9-80.0 dBA CNEL and the modeled existing plus project traffic noise levels range between 62.7-80.0 dBA CNEL at 50 feet from the centerline of each road segment.

All modeled roadway segments are anticipated to change the noise a nominal amount (between approximately 0.04 to 1.83 dBA CNEL). Therefore, a change in noise level would not be audible and would be considered less than significant. No mitigation is required.

NOISE IMPACTS TO OFF-SITE RECEPTORS DUE TO ON-SITE OPERATIONAL NOISE

The operational activities associated with the proposed project were modeled using the SoundPLAN noise model to assess potential noise impacts to nearby single-family detached residential dwelling units. Specifically, these activities include power plant equipment noise, parking lot noise, heating and air conditioning units (HVAC), and loading and unloading. Modeling parameters are discussed in Section 5 of this report. Very conservative modeling assumptions were made. All noise sources were assumed to be in operation continuously.

Land zoned for open space and conservation borders the site to the west; land zoned for light industrial development borders the site to the north and south, and for part of the eastern project boundary. Land adjacent to the northeast corner of the project site is zoned for rural desert residential land uses. There are existing single-family residential land uses in the general vicinity but not immediately adjacent to the project site. These have been identified as receivers on Figures 6.

As shown in Table 6, existing measured noise levels at nearby sensitive receptors range between 36.4 and 44.8 dBA L_{eq}, and modeled project operational noise levels are expected to range between 30.0 and 43.0 dBA L_{eq}. Project operations will not result in substantial increases in ambient noise levels.

As shown in Figures 6 and 7 modeled exterior project operational noise levels range between 30.3 and 52.8 dBA L_{eq} in the project vicinity and is unlikely to exceed the City's exterior noise criteria of 65 dBA or the City's interior noise criteria of 45 dBA Leq. Typical residential construction provides 15 dB of reduction with a windows open condition and 20 dB of reduction with a windows closed condition. This impact is less than significant.

Consistency with Applicable Standards

Power plant, parking lot, HVAC and loading and unloading activities are not expected to exceed the City's noise level standard for residential properties of 65 dBA L_{eq} at any existing residential land uses. Operational noise impacts would be less than significant. No mitigation measures are required.

VIBRATION IMPACTS

This impact discussion analyzes the potential for the proposed project to cause an exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels. The City of Desert Hot Springs Municipal Code Section 17.40.300 prohibits vibration which is discernible beyond the boundary line of any property.

There are several types of construction equipment that can cause vibration levels high enough to annoy persons in the vicinity and/or result in architectural or structural damage to nearby structures and improvements. For example, as shown in Table 7, a vibratory roller could generate up to 0.21 PPV at a distance of 25 feet; and operation of a large bulldozer (0.089 PPV) at a distance of 25 feet (two of the most vibratory pieces of construction equipment). Groundborne vibration at sensitive receptors associated with this equipment would drop off as the equipment moves away. For example, as the vibratory roller moves further than 100 feet from the sensitive receptors, the vibration associated with it would drop below 0.0026 PPV. It should be noted that these vibration levels are reference levels and may vary slightly depending upon soil type and specific usage of each piece of equipment.

Annoyance to Persons

The primary effect of perceptible vibration is often a concern. However, secondary effects, such as the rattling of a china cabinet, can also occur, even when vibration levels are well below perception. Any effect (primary perceptible vibration, secondary effects, or a combination of the two) can lead to annoyance. The degree to which a person is annoyed depends on the activity in which they are participating at the time of the disturbance. For example, someone sleeping or reading will be more sensitive than someone who is running on a treadmill. Reoccurring primary and secondary vibration effects often lead people to believe that the vibration is damaging their home, although vibration levels are well below minimum thresholds for damage potential. (California Department of Transportation, 2020)

As shown in Table 8, vibration becomes distinctly perceptible to people in buildings at a PPV of 0.04.

At 270 feet, which is the distance to the closest off-site building, the single-family residential use to the south, use of a vibratory roller would be expected to generate a PPV of 0.006 and a bulldozer would be expected to generate a PPV of 0.003. Use of either a vibratory roller or a bulldozer would not be considered annoying to nearby sensitive receptors.

Furthermore, at 480 feet, which is the distance to the next closest off-site building, the industrial building to the west, use of a vibratory roller would be expected to generate a PPV of 0.002 and a bulldozer would be expected to generate a PPV of 0.001. Use of either a vibratory roller or a bulldozer would not be considered annoying to nearby sensitive receptors.

Architectural Damage

Vibration generated by construction activity generally has the potential to damage structures. This damage could be structural damage, such as cracking of floor slabs, foundations, columns, beams, or wells, or cosmetic architectural damage, such as cracked plaster, stucco, or tile. (California Department of Transportation, 2020)

Table 9 identifies a PPV level of 0.25 as the threshold at which there is a risk to “architectural” damage to historic and some old buildings. Temporary vibration levels associated with project construction would be less than significant. No mitigation is required. Vibration worksheets are provided in Appendix G.

Table 4 (1 of 2)
CA/T Equipment Noise Emissions and Acoustical Usage Factor Database

Equipment Description	Impact Device?	Acoustical Use Factor (%)	Spec. Lmax @ 50ft (dBA, slow)	Actual Measured Lmax @ 50ft (dBA, slow)	No. of Actual Data Samples (Count)
All Other Equipment > 5 HP	No	50	85	-N/A-	0
Auger Drill Rig	No	20	85	84	36
Backhoe	No	40	80	78	372
Bar Bender	No	20	80	-N/A-	0
Blasting	Yes	-N/A-	94	-N/A-	0
Boring Jack Power Unit	No	50	80	83	1
Chain Saw	No	20	85	84	46
Clam Shovel (dropping)	Yes	20	93	87	4
Compactor (ground)	No	20	80	83	57
Compressor (air)	No	40	80	78	18
Concrete Batch Plant	No	15	83	-N/A-	0
Concrete Mixer Truck	No	40	85	79	40
Concrete Pump Truck	No	20	82	81	30
Concrete Saw	No	20	90	90	55
Crane	No	16	85	81	405
Dozer	No	40	85	82	55
Drill Rig Truck	No	20	84	79	22
Drum Mixer	No	50	80	80	1
Dump Truck	No	40	84	76	31
Excavator	No	40	85	81	170
Flat Bed Truck	No	40	84	74	4
Forklift[2,3]	No	50	n/a	61	n/a
Front End Loader	No	40	80	79	96
Generator	No	50	82	81	19
Generator (<25KVA, VMS signs)	No	50	70	73	74
Gradall	No	40	85	83	70
Grader	No	40	85	-N/A-	0
Grapple (on backhoe)	No	40	85	87	1
Horizontal Boring Hydr. Jack	No	25	80	82	6
Hydra Break Ram	Yes	10	90	-N/A-	0
Impact Pile Driver	Yes	20	95	101	11
Jackhammer	Yes	20	85	89	133
Man Lift	No	20	85	75	23
Mounted Impact hammer (hoe ram)	Yes	20	90	90	212
Pavement Scarafier	No	20	85	90	2
Paver	No	50	85	77	9
Pickup Truck	No	50	85	77	9
Paving Equipment	No	50	85	77	9
Pneumatic Tools	No	50	85	85	90

Table 4 (2 of 2)
CA/T Equipment Noise Emissions and Acoustical Usage Factor Database

Equipment Description	Impact Device?	Acoustical Use Factor (%)	Spec. Lmax @ 50ft (dBA, slow)	Actual Measured Lmax @ 50ft (dBA, slow)	No. of Actual Data Samples (Count)
Pumps	No	50	77	81	17
Refrigerator Unit	No	100	82	73	3
Rivit Buster/chipping gun	Yes	20	85	79	19
Rock Drill	No	20	85	81	3
Roller	No	20	85	80	16
Sand Blasting (Single Nozzle)	No	20	85	96	9
Scraper	No	40	85	84	12
Shears (on backhoe)	No	40	85	96	5
Slurry Plant	No	100	78	78	1
Slurry Trenching Machine	No	50	82	80	75
Soil Mix Drill Rig	No	50	80	-N/A-	0
Tractor	No	40	84	-N/A-	0
Vacuum Excavator (Vac-truck)	No	40	85	85	149
Vacuum Street Sweeper	No	10	80	82	19
Ventilation Fan	No	100	85	79	13
Vibrating Hopper	No	50	85	87	1
Vibratory Concrete Mixer	No	20	80	80	1
Vibratory Pile Driver	No	20	95	101	44
Warning Horn	No	5	85	83	12
Welder/Torch	No	40	73	74	5

Notes:

(1) Source: FHWA Roadway Construction Noise Model User's Guide January 2006.

(2) Warehouse & Forklift Noise Exposure - NoiseTesting.info Carl Stautins, November 4, 2014 http://www.noisetesting.info/blog/carl-strautins/page-3/

(3) Data provided Leq as measured at the operator. Sound Level at 50 feet is calculated using Inverse Square Law.

Table 5
Comparison of Existing and Existing Plus Project Traffic Noise Levels

Roadway	Segment	Average Daily Traffic Volumes[2]			Modeled Noise Levels (CNEL) @ 50 feet from centerline				
		Existing	Project	Existing Plus Project	Existing	Existing Plus Project	Increase	Exceeds Standards	Substantial Increase
Pierson Blvd	West of Indian Canyon Dr	3,000	200	3,200	68.4	68.5	0.14	Yes	No
	Indian Canyon Dr to Little Morongo Rd	5,100	200	5,300	70.7	70.8	0.08	Yes	No
	East of Little Morongo Rd	7,400	200	7,600	72.3	72.4	0.05	Yes	No
Hacienda Ave	West of Palm Dr	6,000	100	6,100	78.8	78.8	0.04	Yes	No
	East of Palm Dr	8,500	100	8,600	71.5	71.5	0.02	Yes	No
Ironwood Dr	West of Palm Dr	3,000	100	3,100	66.2	66.2	0.05	Yes	No
	East of Palm Dr	3,500	100	3,600	66.8	66.9	0.04	Yes	No
2 Bunch Palms Trail	East of Little Morongo Rd	6,000	600	6,600	70.0	70.1	0.17	Yes	No
	West of Palm Dr	11,900	600	12,500	72.9	73.0	0.09	Yes	No
	East of Palm Dr	9,300	200	9,500	68.8	68.8	0.03	Yes	No
Cam. Campanero	East of Palm Dr	4,700	100	4,800	66.3	66.3	0.02	Yes	No
Cam. Aventura	East of Palm Dr	4,600	100	4,700	66.2	66.2	0.03	Yes	No
Dillon Road	West of Indian Canyon Dr	2,500	200	2,700	68.2	68.4	0.17	Yes	No
	Indian Canyon Dr to Little Morongo Rd	9,900	1,400	11,300	74.2	74.5	0.29	Yes	No
	Little Morongo Rd to Atlantic Ave	9,900	1,100	11,000	74.2	74.5	0.23	Yes	No
	Atlantic Ave to Palm Dr	9,900	1,100	11,000	74.2	74.5	0.23	Yes	No
	East of Palm Dr	10,300	300	10,600	74.4	74.5	0.06	Yes	No
Garnet Ave	East of Interstate 10 Off-Ramp	5,600	500	6,100	71.1	71.3	0.18	Yes	No
Varner Rd	East of Palm Dr	1,900	200	2,100	65.7	65.9	0.19	Yes	No
Indian Canyon Dr	North of Pierson Blvd	6,600	200	6,800	72.5	72.5	0.06	Yes	No
	Pierson Blvd to Dillon Rd	8,700	200	8,900	73.7	73.7	0.05	Yes	No
	Dillon Rd to Garnet Ave	13,900	1,100	15,000	75.7	75.9	0.17	Yes	No
	South of Garnet Ave	15,500	200	15,700	76.2	76.2	0.02	Yes	No
Little Morongo Rd	North of Pierson Blvd	3,900	200	4,100	70.2	70.3	0.11	Yes	No
	Pierson Blvd to 2 Bunch Palms Trail	4,000	600	4,600	70.3	70.6	0.32	Yes	No
	2 Bunch Palms Trail to 15th Ave	7,200	1,100	8,300	72.8	73.2	0.31	Yes	No
	15th Ave to Dillon Rd	6,800	2,500	9,300	60.9	62.7	1.83	Yes	No
Palm Dr	Pierson Blvd to Hacienda Ave	25,400	200	25,600	78.8	78.8	0.04	Yes	No
	Hacienda Ave to Ironwood Dr	28,200	400	28,600	78.8	78.8	0.05	Yes	No
	Ironwood Dr to 2 Bunch Palms Trail	28,200	600	28,800	78.8	78.8	0.05	Yes	No
	2 Bunch Palms Trail to Cam Campanero	37,400	200	37,600	80.0	80.0	0.01	Yes	No
	Cam Campanero to Cam Aventura	37,400	300	37,700	80.0	80.0	0.02	Yes	No
	Cam Aventura to Dillon Rd	37,400	400	37,800	80.0	80.0	0.02	Yes	No
	Dillon Rd to Varner Rd	34,300	400	34,700	79.6	79.6	0.03	Yes	No
	South of Varner Rd	29,900	300	30,200	79.0	79.0	0.02	Yes	No

Motor-Vehicle Type	Vehicle Distribution (Light Mix)[2]			Vehicle Distribution (Heavy Mix)[2]		
	Daytime % (7AM-7PM)	Evening % (7PM-10PM)	Night % (10PM-7AM)	Daytime % (7AM-7PM)	Evening % (7PM-10PM)	Night % (10PM-7AM)
Automobiles	75.56	13.96	10.49	75.54	14.02	10.43
Medium Trucks	48.91	2.17	48.91	48.00	2.00	50.00
Heavy Trucks	47.30	5.41	47.30	48.00	2.00	50.00

Notes:

(1) It is important to understand that the above traffic noise levels only represent traffic noise on each particular road segment and not overall ambient noise.

(2) Average daily traffic volumes from the DHS 109 Business Park Traffic Impact Analysis, Ganddini Group, Inc., 2019.

(3) Existing vehicle percentages are based on the Riverside County Industrial Hygiene Letter for Traffic Noise.

Table 6
Comparison of Existing and Existing Plus Project Operational Noise Levels

Site Location	Level (dBA)	
	Existing Measured Noise Levels	Project Operational Noise Levels
STNM1	37.2	34
STNM2	36.4	30
STNM3	46.2	40
STNM4	40.4	33
STNM5	44.8	43

Notes:

(1) See Figure 5 for noise measurement locations. Each noise measurement was performed over a 15-minute duration.

(2) Noise measurements performed on August 10, 2020.

Table 7
Construction Equipment Vibration Source Levels

Equipment		PPV at 25 ft, in/sec	Approximate Lv* at 25 ft
Pile Driver (impact)	upper range	1.518	112
	typical	0.644	104
Pile Driver (sonic)	upper range	0.734	105
	typical	0.170	93
clam shovel drop (slurry wall)		0.202	94
Hydromill (slurry wall)	in soil	0.008	66
	in rock	0.017	75
Vibratory Roller		0.210	94
Hoe Ram		0.089	87
Large Bulldozer		0.089	87
Caisson Drilling		0.089	87
Loaded Trucks		0.076	86
Jackhammer		0.035	79
Small Bulldozer		0.003	58

Source: Federal Transit Administration: Transit Noise and Vibration Impact Assessment Manual, 2018.

*RMS velocity in decibels, VdB re 1 micro-in/sec

Table 8
Guideline Vibration Annoyance Potential Criteria

Human Response	Maximum PPV (in/sec)	
	Transient Sources	Continuous/Frequent Intermittent Sources
Barely perceptible	0.04	0.01
Distinctly perceptible	0.25	0.04
Strongly perceptible	0.9	0.10
Severe	2.0	0.4

Notes:
Source: California Department of Transportation. Transportation and Construction Vibration Guidance Manual, Chapter 7 Table 20, April 2020.

(1) Transient sources create a single isolated vibration event, such as blasting or drop balls. Continuous/frequent intermittent sources include impact pile drivers, pogo-stick compactors, crack-and-seat equipment, vibratory

Table 9
Guideline Vibration Damage Potential Threshold Criteria

Structure Condition	Maximum PPV (in/sec)	
	Transient Sources	Continuous/Frequent Intermittent Sources
Extremely fragile historic buildings, ruins, anceint monuments	0.12	0.08
Fragile buildings	0.2	0.1
Historic and some old buildings	0.5	0.25
Older residential structures	0.5	0.3
New residential structures	1.0	0.5
Modern industrial/commercial buildings	2.0	0.5

Notes:

Source: California Department of Transportation. Transportation and Construction Vibration Guidance Manual, Chapter 7 Table 19, April 2020.

(1) Transient sources create a single isolated vibration event, such as blasting or drop balls. Continuous/frequent intermittent sources include impact pile drivers, pogo-stick compactors, crack-and-seat equipment, vibratory pile drivers, and vibratory compaction equipment.

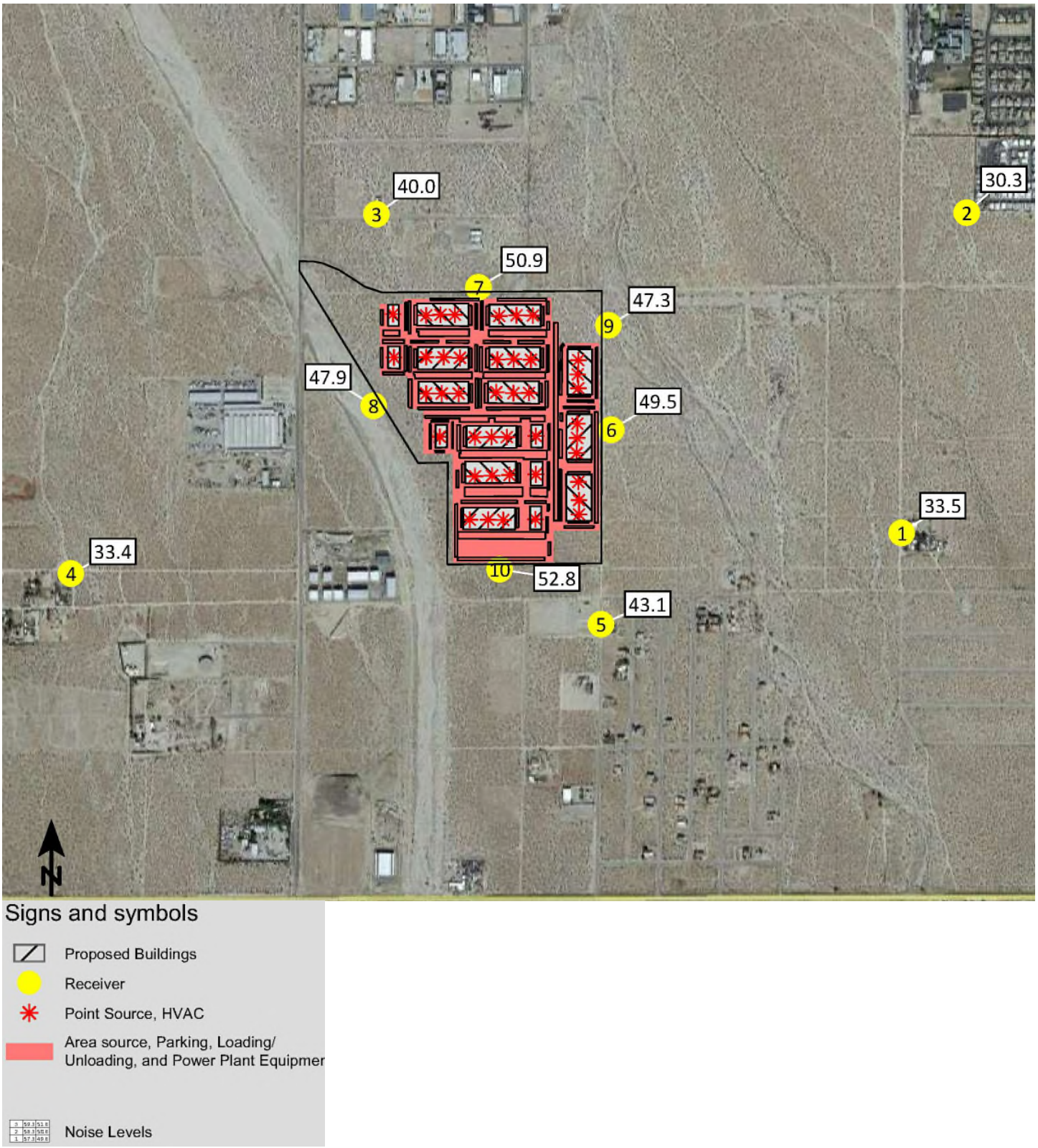


Figure 6
Project Operational Noise Levels Peak Hour (Leq)

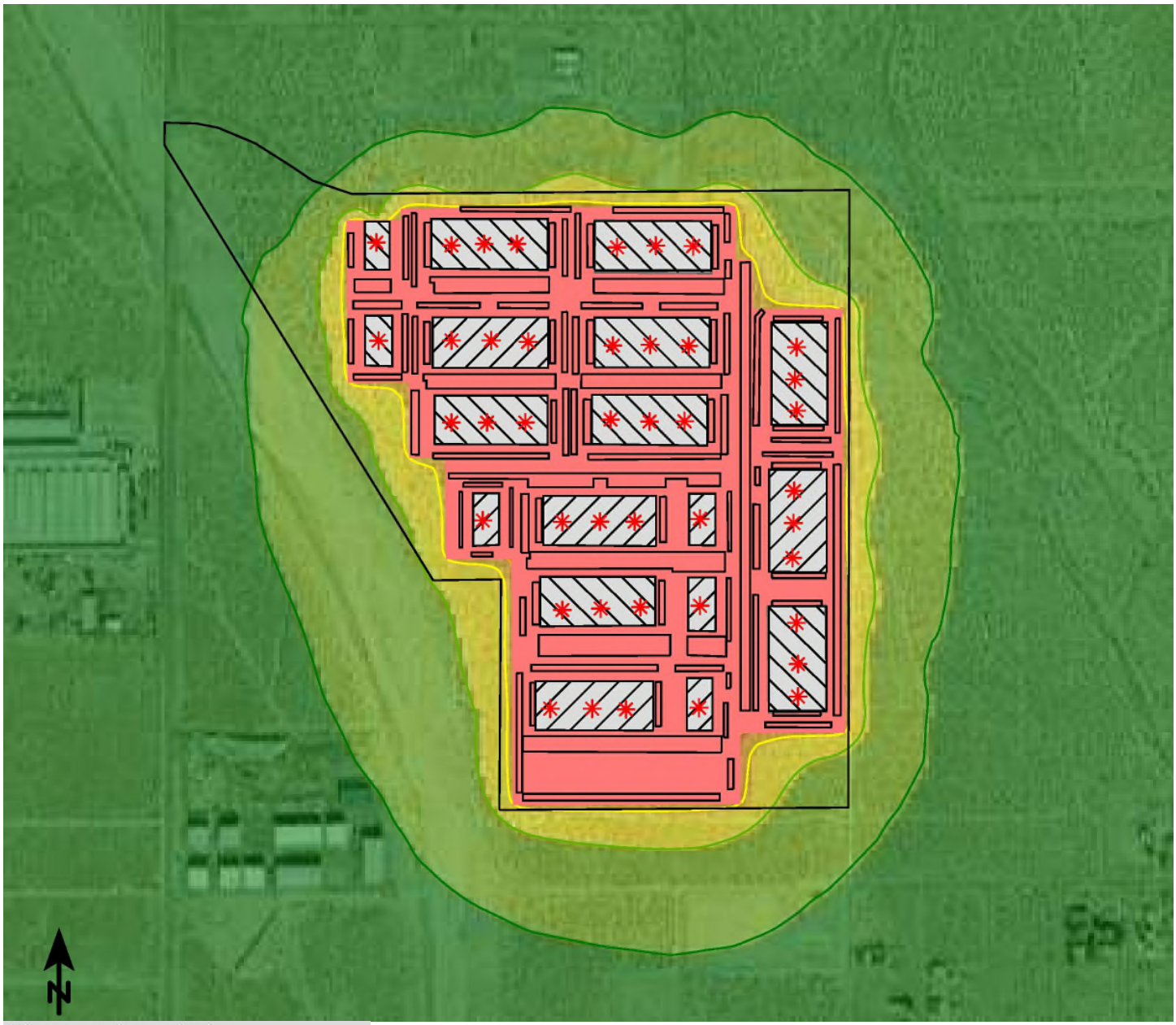


Figure 7
Project Operational Noise Contour Peak Hour (Leq)

7. MEASURES TO REDUCE IMPACTS

CONSTRUCTION MITIGATION MEASURES

In addition to adherence to the City of Desert Hot Springs's policies found in the Noise Element and Municipal Code limiting the construction hours of operation, the following measures are recommended to reduce construction noise and vibrations, emanating from the proposed project:

1. During all project site excavation and grading on-site, construction contractors shall equip all construction equipment, fixed or mobile, with properly operating and maintained mufflers, consistent with manufacturer standards.

2. The contractor shall place all stationary construction equipment so that emitted noise is directed away from the noise sensitive receptors nearest the project site.

3. Equipment shall be shut off and not left to idle when not in use.

4. The contractor shall locate equipment staging in areas that will create the greatest distance between construction-related noise/vibration sources and sensitive receptors nearest the project site during all project construction.

5. Jackhammers, pneumatic equipment and all other portable stationary noise sources shall be shielded and noise shall be directed away from sensitive receptors.

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APPENDICES

Appendix A List of Acronyms
Appendix B Definitions of Acoustical Terms
Appendix C Noise Measurement Field Worksheets
Appendix D Construction Noise Modeling
Appendix E Project Generated Trips FHWA Worskheets
Appendix F SoundPLAN Input and Output
Appendix G Vibration Worksheets

APPENDIX A

LIST OF ACRONYMS

Term	Definition
ADT	Average Daily Traffic
ANSI	American National Standard Institute
CEQA	California Environmental Quality Act
CNEL	Community Noise Equivalent Level
D/E/N	Day / Evening / Night
dB	Decibel
dBA or dB(A)	Decibel "A-Weighted"
dBA/DD	Decibel per Double Distance
dBA L_{eq}	Average Noise Level over a Period of Time
EPA	Environmental Protection Agency
FHWA	Federal Highway Administration
L_{02},L_{08},L_{50},L_{90}	A-weighted Noise Levels at 2 percent, 8 percent, 50 percent, and 90 percent, respectively, of the time period
DNL	Day-Night Average Noise Level
$L_{eq(x)}$	Equivalent Noise Level for '"x" period of time
L_{eq}	Equivalent Noise Level
L_{max}	Maximum Level of Noise (measured using a sound level meter)
L_{min}	Minimum Level of Noise (measured using a sound level meter)
LOS C	Level of Service C
OPR	California Governor's Office of Planning and Research
PPV	Peak Particle Velocities
RCNM	Road Construction Noise Model
REMEL	Reference Energy Mean Emission Level
RMS	Root Mean Square

APPENDIX B

DEFINITIONS OF ACOUSTICAL TERMS

Term	Definition
Ambient Noise Level	The all-encompassing noise environment associated with a given environment, at a specified time, usually a composite of sound from many sources, at many directions, near and far, in which usually no particular sound is dominant.
A-Weighted Sound Level, dBA	The sound level obtained by use of A-weighting. The A-weighting filter de-emphasizes the very low and very high frequency components of the sound in a manner similar to the frequency response of the human ear.
CNEL	Community Noise Equivalent Level. CNEL is a weighted 24-hour noise level that is obtained by adding five decibels to sound levels in the evening (7:00 PM to 10:00 PM), and by adding ten decibels to sound levels at night (10:00 PM to 7:00 AM). This weighting accounts for the increased human sensitivity to noise during the evening and nighttime hours.
Decibel, dB	A logarithmic unit of noise level measurement that relates the energy of a noise source to that of a constant reference level; the number of decibels is 10 times the logarithm (to the base 10) of this ratio.
DNL, Ldn	Day Night Level. The DNL, or Ldn is a weighted 24-hour noise level that is obtained by adding ten decibels to sound levels at night (10:00 PM to 7:00 AM). This weighting accounts for the increased human sensitivity to noise during the nighttime hours.
Equivalent Continuos Noise Level, L_{eq}	A level of steady state sound that in a stated time period, and a stated location, has the same A-weighted sound energy as the time-varying sound.
Fast/Slow Meter Response	The fast and slow meter responses are different settings on a sound level meter. The fast response setting takes a measurement every 100 milliseconds, while a slow setting takes one every second.
Frequency, Hertz	In a function periodic in time, the number of times that the quantity repeats itself in one second (i.e., the number of cycles per second).
L_{02}, L_{08}, L_{50}, L_{90}	The A-weighted noise levels that are equaled or exceeded by a fluctuating sound level, 2 percent, 8 percent, 50 percent, and 90 percent of a stated time period, respectively.
L_{max}, L_{min}	L_{max} is the RMS (root mean squared) maximum level of a noise source or environment measured on a sound level meter, during a designated time interval, using fast meter response. L_{min} is the minimum level.
Offensive/ Offending/ Intrusive Noise	The noise that intrudes over and above the existing ambient noise at a given location. The relative intrusiveness of sound depends on its amplitude, duration, frequency, and time of occurrence, and tonal information content as well as the prevailing ambient noise level.
Root Mean Square (RMS)	A measure of the magnitude of a varying noise source quantity. The name derives from the calculation of the square root of the mean of the squares of the values. It can be calculated from either a series of lone values or a continuous varying function.

APPENDIX C

NOISE MEASUREMENT FIELD WORKSHEETS

Noise Measurement
Field Data

Project Name: DHS 109 Power Plant Project, City of Desert Hot Springs. **Date:** August 10, 2020

Project #: JN 19273

Noise Measurement #: STNM1 Run Time: 15 minutes (1 x 15 minutes) **Technician:** Ian Gallagher

Nearest Address or Cross Street: 16550 West Drive, Deset Hot Springs, California.

Site Description (Type of Existing Land Use and any other notable features): Project Site: Vacant land with 16th Ave to south, Atlantic Ave to east, 15th Ave to north, & drainage channel to west. Noise Measurement Site: West Drive and a Single-family dwelling unit to east, vacant land surrounding.

Weather: Sunny, clear blue skies, hot. **Settings:** SLOW FAST

Temperature: 99 deg F **Wind:** 5-10mph **Humidity:** 14% **Terrain:** Flat

Start Time: 10:44 AM **End Time:** 10:59 AM **Run Time:**

Leq:	37.2	dB
Lmax	56.8	dB
L2	44.3	dB
L8	38.8	dB
L25	34.5	dB
L50	32.0	dB

Primary Noise Source: Wildlife, bird noises, bird song, day crickets. Breeze blowing through desert shrubbery.

Secondary Noise Sources: Slight traffic ambiance from vehicles traveling on Palm Drive and Dillon Road. Distant jet and propeller air traffic.

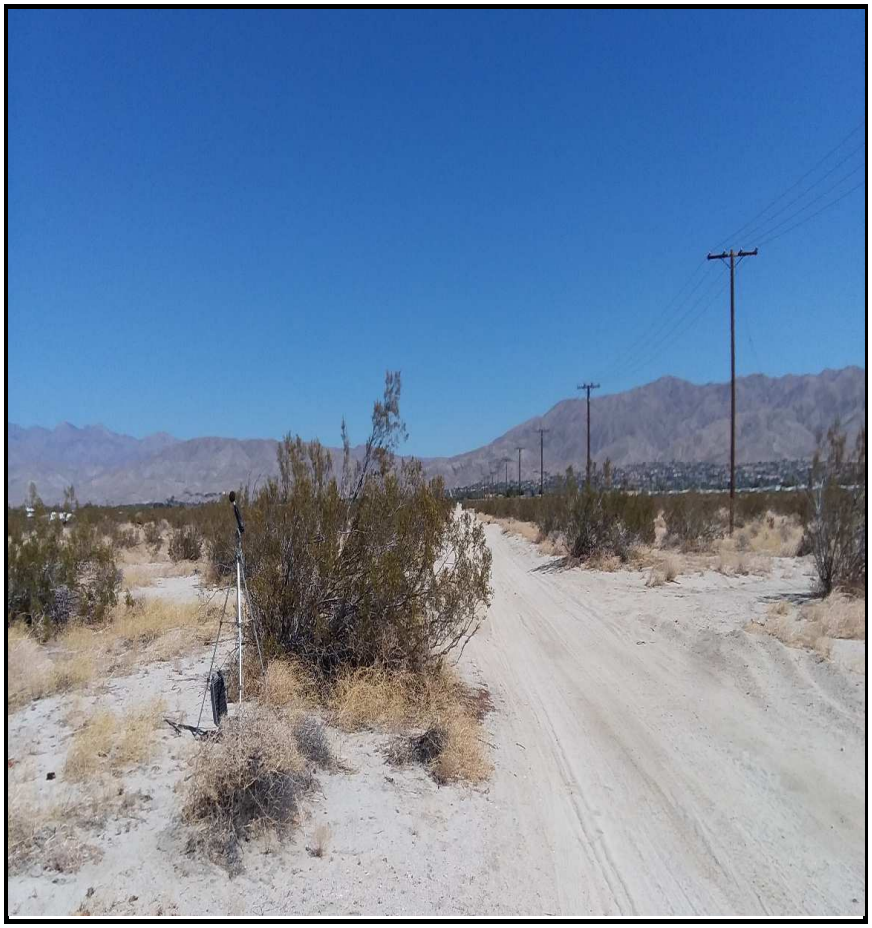
NOISE METER:	SoundTrack LXT Class 1	**CALIBRATOR:**	Larson Davis CAL250
MAKE:	Larson Davis	**MAKE:**	Larson Davis
MODEL:	LXT1	**MODEL:**	Cal 250
SERIAL NUMBER:	3099	**SERIAL NUMBER:**	2733
FACTORY CALIBRATION DATE:	4/9/2020	**FACTORY CALIBRATION DATE:**	4/2/2020
FIELD CALIBRATION DATE:	8/10/2020		

Noise Measurement
Field Data

PHOTOS:



STNM1 looking E across West Drive (dirt road) towards residence 16550 West Drive, Desert Hot Springs.



STNM1 looking N up West Drive towards elementary school and Two Bunch Palms Trail.

Summary			
File Name on Meter	LxT_Data.049		
File Name on PC	SLM_0003099_LxT_Data_049.00.ldbin		
Serial Number	0003099		
Model	SoundTrack LxT®		
Firmware Version	2.402		
User	Ian Edward Gallagher		
Location	STNM1 JN 19273 Desert Hot Springs 33°56'0.77"N 116°30'36.47"W		
Job Description	15 minute noise measurement (1 x 15 minutes)		
Measurement			
Start	2020-08-10 10:44:50		
Stop	2020-08-10 10:59:50		
Duration	00:15:00.0		
Run Time	00:15:00.0		
Pause	00:00:00.0		
Pre Calibration	2020-08-10 10:44:18		
Post Calibration	None		
Overall Settings			
RMS Weight	A Weighting		
Peak Weight	Z Weighting		
Detector	Slow		
Preamp	PRMLxT1L		
Microphone Correction	Off		
Integration Method	Linear		
OBA Range	Low		
OBA Bandwidth	1/1 and 1/3		
OBA Freq. Weighting	Z Weighting		
OBA Max Spectrum	Bin Max		
Overload	122.7 dB		
Results			
LAeq	37.2		
LAE	66.8		
EA	0.528 µPa²h		
EA8	16.903 µPa²h		
EA40	84.514 µPa²h		
LZpeak (max)	2020-08-10 10:57:18	101.1 dB	
LASmax	2020-08-10 10:56:33	56.8 dB	
LASmin	2020-08-10 10:58:49	28.1 dB	
SEA	-99.9 dB		

		Statistics	
LCeq	59.2 dB	**LAI2.00**	44.3 dB
LAeq	37.2 dB	**LAI8.00**	38.8 dB
LCeq - LAeq	22.0 dB	**LAI25.00**	34.5 dB
LAIeq	43.4 dB	**LAI50.00**	32.0 dB
LAeq	37.2 dB	**LAI66.60**	31.1 dB
LAIeq - LAeq	6.2 dB	**LAI90.00**	30.0 dB
# Overloads	0		

Noise Measurement
Field Data

Project Name: DHS 109 Power Plant Project, City of Desert Hot Springs. **Date:** August 10, 2020

Project #: JN 19273

Noise Measurement #: STNM2 Run Time: 15 minutes (1 x 15 minutes) **Technician:** Ian Gallagher

Nearest Address or Cross Street: North of West Dr & 15th Ave STNM2 Lat/Long: 33°56'29.19"N/ 116°30'35.83"W

Site Description (Type of Existing Land Use and any other notable features): Project Site: Vacant land with 16th Ave to south, Atlantic Ave to east, 15th Ave to north, & drainage channel to west. Noise Measurement Site: West Dr to west with vacant land further west, vacant land to south, north, & east, school further north, & residential further east.

Weather: Sunny, clear blue skies, hot. **Settings:** SLOW FAST

Temperature: 102 deg F **Wind:** 5-10mph **Humidity:** 14% **Terrain:** Flat

Start Time: 11:54 AM **End Time:** 12:09 PM **Run Time:**

Leq: 36.4 dB

Lmax 52.7 dB

L2 42.7 dB

L8 39.6 dB

L25 36.3 dB

L50 34.0 dB

Primary Noise Source: Wildlife, bird noises, bird song, day crickets. Breeze blowing through desert shrubbery.

Secondary Noise Sources: Slight traffic ambiance from vehicles traveling on Palm Drive & 2 Bunch Palms Trail. Distant jet and propeller air traffic.

NOISE METER:	SoundTrack LXT Class 1	**CALIBRATOR:**	Larson Davis CAL250
MAKE:	Larson Davis	**MAKE:**	Larson Davis
MODEL:	LXT1	**MODEL:**	Cal 250
SERIAL NUMBER:	3099	**SERIAL NUMBER:**	2733
FACTORY CALIBRATION DATE:	4/9/2020	**FACTORY CALIBRATION DATE:**	4/2/2020
FIELD CALIBRATION DATE:	8/10/2020		

Noise Measurement
Field Data

PHOTOS:



STNM2 looking E across open land towards Palm Drive.



STNM2 looking North up West Drive towards elementary school & 2 Bunch Palms Trail.

Summary				
File Name on Meter	LxT_Data.050			
File Name on PC	SLM_0003099_LxT_Data_050.00.ldbin			
Serial Number	0003099			
Model	SoundTrack LxT®			
Firmware Version	2.402			
User	Ian Edward Gallagher			
Location	STNM2 JN 19273 Desert Hot Springs 33°56'29.19"N 116°30'35.83"W			
Job Description	15 minute noise measuremnt (1 x 15 minutes)			
Measurement				
Start	2020-08-10 11:54:16			
Stop	2020-08-10 12:09:16			
Duration	00:15:00.0			
Run Time	00:15:00.0			
Pause	00:00:00.0			
Pre Calibration	2020-08-10 11:48:59			
Post Calibration	None			
Overall Settings				
RMS Weight	A Weighting			
Peak Weight	Z Weighting			
Detector	Slow			
Preamp	PRMLxT1L			
Microphone Correction	Off			
Integration Method	Linear			
OBA Range	Low			
OBA Bandwidth	1/1 and 1/3			
OBA Freq. Weighting	Z Weighting			
OBA Max Spectrum	Bin Max			
Overload	122.9 dB			
Results				
LAeq	36.4			
LAE	65.9			
EA	0.435 µPa²h			
EA8	13.913 µPa²h			
EA40	69.565 µPa²h			
LZpeak (max)	2020-08-10 12:03:27	102.0 dB		
LASmax	2020-08-10 11:55:19	52.7 dB		
LASmin	2020-08-10 11:54:50	29.3 dB		
SEA	-99.9 dB			
			Statistics	
LCeq	62.5 dB		**LAI2.00**	42.7 dB
LAeq	36.4 dB		**LAI8.00**	39.6 dB
LCeq - LAeq	26.1 dB		**LAI25.00**	36.3 dB
LAIeq	44.1 dB		**LAI50.00**	34.0 dB
LAeq	36.4 dB		**LAI66.60**	32.9 dB
LAIeq - LAeq	7.7 dB		**LAI90.00**	31.3 dB
# Overloads	0			

Noise Measurement
Field Data

Project Name: DHS 109 Power Plant Project, City of Desert Hot Springs. **Date:** August 10, 2020

Project #: JN 19273

Noise Measurement #: STNM3 Run Time: 15 minutes (1 x 15 minutes) **Technician:** Ian Gallagher

Nearest Address or Cross Street: 65128 Palomar Lane, Desert Hot Springs, California.

Site Description (Type of Existing Land Use and any other notable features): Project Site: Vacant land with 16th Ave to south, Atlantic Ave to east, 15th Ave to north, & drainage channel to west. Noise Measurement Site: Palomar Ln to north with small commercial use furthe north, vacant land to south, east, & west, with industrial further east.

Weather: Sunny, clear blue skies, hot. **Settings:** SLOW FAST

Temperature: 104 deg F **Wind:** 10-15mph **Humidity:** 9% **Terrain:** Flat

Start Time: 12:52 PM **End Time:** 1:07 PM **Run Time:**

Leq: 46.2 dB

Lmax 53.9 dB

L2 49.4 dB

L8 47.9 dB

L25 46.7 dB

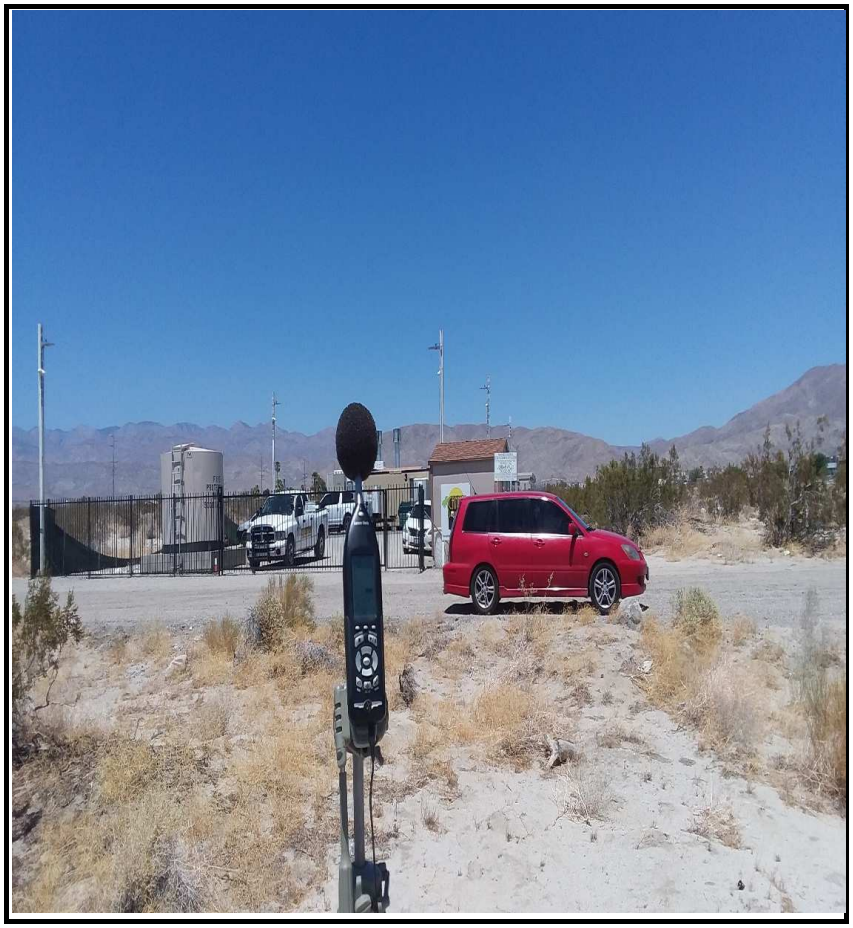
L50 45.8 dB

Primary Noise Source: Wildlife, bird noises, bird song, day crickets. Breeze blowing through desert shrubbery. Machinery noise from building, 65128 Palomar Lane.

Secondary Noise Sources: Slight traffic ambiance from vehicles traveling on Little Morongo Rd & 2 Bunch Palms Trail. Distant jet and propeller air traffic.

NOISE METER:	SoundTrack LXT Class 1	**CALIBRATOR:**	Larson Davis CAL250
MAKE:	Larson Davis	**MAKE:**	Larson Davis
MODEL:	LXT1	**MODEL:**	Cal 250
SERIAL NUMBER:	3099	**SERIAL NUMBER:**	2733
FACTORY CALIBRATION DATE:	4/9/2020	**FACTORY CALIBRATION DATE:**	4/2/2020
FIELD CALIBRATION DATE:	8/10/2020		

PHOTOS:



STNM3 looking N across Palomar Lane towards building 65128 Palomar Lane, Desert Hot Springs, California.



STNM3 looking E down Palomar Lane towards Cabot Road intersection.

Summary	
File Name on Meter	LxT_Data.051
File Name on PC	SLM_0003099_LxT_Data_051.00.ldbin
Serial Number	0003099
Model	SoundTrack LxT®
Firmware Version	2.402
User	Ian Edward Gallagher
Location	STNM3 JN 19273 Desert Hot Springs 33°56'27.69"N 116°31'30.53"W
Job Description	15 minute noise measurement (1 x 15 minutes)

Measurement	
Start	2020-08-10 12:52:48
Stop	2020-08-10 13:07:48
Duration	00:15:00.0
Run Time	00:15:00.0
Pause	00:00:00.0
Pre Calibration	2020-08-10 12:52:27
Post Calibration	None

Overall Settings	
RMS Weight	A Weighting
Peak Weight	Z Weighting
Detector	Slow
Preamp	PRMLxT1L
Microphone Correction	Off
Integration Method	Linear
OBA Range	Low
OBA Bandwidth	1/1 and 1/3
OBA Freq. Weighting	Z Weighting
OBA Max Spectrum	Bin Max
Overload	122.7 dB

Results			
LAeq	46.2		
LAE	75.8		
EA	4.201	µPa²h	
EA8	134.437	µPa²h	
EA40	672.187	µPa²h	
LZpeak (max)	2020-08-10 13:06:49	107.9	dB
LASmax	2020-08-10 13:03:15	53.9	dB
LASmin	2020-08-10 12:54:53	43.1	dB
SEA	-99.9	dB	

			Statistics	
LCeq	71.5	dB	**LAI2.00**	49.4 dB
LAeq	46.2	dB	**LAI8.00**	47.9 dB
LCeq - LAeq	25.3	dB	**LAI25.00**	46.7 dB
LAIeq	49.3	dB	**LAI50.00**	45.8 dB
LAeq	46.2	dB	**LAI66.60**	45.4 dB
LAIeq - LAeq	3.1	dB	**LAI90.00**	44.5 dB
# Overloads	0			

Noise Measurement
Field Data

Project Name: DHS 109 Power Plant Project, City of Desert Hot Springs. **Date:** August 10, 2020

Project #: JN 19273

Noise Measurement #: STNM4 Run Time: 15 minutes (1 x 15 minutes) **Technician:** Ian Gallagher

Nearest Address or Cross Street: West of Little Morongo Rd & Vermillion Dr, Lat/Long: 33°55'57.76"N 116°32'1.74"W

Site Description (Type of Existing Land Use and any other notable features): Project Site: Vacant land with 16th Ave to south, Atlantic Ave to east, 15th Ave to north, & drainage channel to west. Noise Measurement Site: Vermillion Drive north with vacant land further north, vacant land to east & south, & a single-family residential use to west.

Weather: Sunny, clear blue skies, hot. **Settings:** SLOW FAST

Temperature: 105 deg F **Wind:** 10-15mph **Humidity:** 9% **Terrain:** Flat

Start Time: 1:43 PM **End Time:** 1:58 PM **Run Time:**

Leq: 40.4 dB

Lmax 53 dB

L2 47.1 dB

L8 43.1 dB

L25 40.7 dB

L50 38.3 dB

Primary Noise Source: Wildlife, bird noises, bird song, day crickets. Breeze blowing through desert shrubbery.

Secondary Noise Sources: Slight traffic ambiance from vehicles traveling on Little Morongo Rd & Dillon RD. Distant jet and propeller air traffic.

NOISE METER:	SoundTrack LXT Class 1	**CALIBRATOR:**	Larson Davis CAL250
MAKE:	Larson Davis	**MAKE:**	Larson Davis
MODEL:	LXT1	**MODEL:**	Cal 250
SERIAL NUMBER:	3099	**SERIAL NUMBER:**	2733
FACTORY CALIBRATION DATE:	4/9/2020	**FACTORY CALIBRATION DATE:**	4/2/2020
FIELD CALIBRATION DATE:	8/10/2020		

Noise Measurement
Field Data

PHOTOS:



STNM4 looking West passed residence on Vermillion Rd (no house number).



STNM4 looking North across Vermillion Drive (dirt road), towards empty desert.

Summary				
File Name on Meter	LxT_Data.052			
File Name on PC	SLM_0003099_LxT_Data_052.00.ldbin			
Serial Number	0003099			
Model	SoundTrack LxT®			
Firmware Version	2.402			
User	Ian Edward Gallagher			
Location	STNM4 JN 19273 Desert Hot Springs 33°55'57.76"N 116°32'1.74"W			
Job Description	15 minute noise measurement (1 x 15 minutes)			
Measurement				
Start	2020-08-10 13:43:40			
Stop	2020-08-10 13:58:40			
Duration	00:15:00.0			
Run Time	00:15:00.0			
Pause	00:00:00.0			
Pre Calibration	2020-08-10 13:43:17			
Post Calibration	None			
Overall Settings				
RMS Weight	A Weighting			
Peak Weight	Z Weighting			
Detector	Slow			
Preamp	PRMLxT1L			
Microphone Correction	Off			
Integration Method	Linear			
OBA Range	Low			
OBA Bandwidth	1/1 and 1/3			
OBA Freq. Weighting	Z Weighting			
OBA Max Spectrum	Bin Max			
Overload	122.7 dB			
Results				
LAeq	40.4			
LAE	70.0			
EA	1.109 µPa²h			
EA8	35.488 µPa²h			
EA40	177.441 µPa²h			
LZpeak (max)	2020-08-10 13:57:40	107.4 dB		
LASmax	2020-08-10 13:57:31	53.0 dB		
LASmin	2020-08-10 13:44:12	33.3 dB		
SEA	-99.9 dB			
			Statistics	
LCeq	68.7 dB		**LAI2.00**	47.1 dB
LAeq	40.4 dB		**LAI8.00**	43.1 dB
LCeq - LAeq	28.2 dB		**LAI25.00**	40.7 dB
LAIeq	45.2 dB		**LAI50.00**	38.8 dB
LAeq	40.4 dB		**LAI66.60**	37.8 dB
LAIeq - LAeq	4.8 dB		**LAI90.00**	36.4 dB
# Overloads	0			

Noise Measurement
Field Data

Project Name: DHS 109 Power Plant Project, City of Desert Hot Springs. **Date:** August 10, 2020

Project #: JN 19273

Noise Measurement #: STNM5 Run Time: 15 minutes (1 x 15 minutes) **Technician:** Ian Gallagher

Nearest Address or Cross Street: 16120 Atlantic Avenue, Desert Hot Springs, California.

Site Description (Type of Existing Land Use and any other notable features): Project Site: Vacant land with 16th Ave to south, Atlantic Ave to east, 15th Ave to north, & drainage channel to west. Noise Measurement Site: Vermillion Drive north with vacant land further north, vacant land to east & south, & a single-family residential use to west.

Weather: Sunny, clear blue skies, hot. **Settings:** SLOW FAST

Temperature: 105 deg F **Wind:** 10-15mph **Humidity:** 9% **Terrain:** Flat

Start Time: 2:51 PM **End Time:** 3:06 PM **Run Time:**

Leq: 44.8 dB

Lmax 57.3 dB

L2 50.7 dB

L8 48.8 dB

L25 45.5 dB

L50 42.6 dB

Primary Noise Source: Wildlife, bird noises, bird song, day crickets. Breeze blowing through desert shrubbery. Slight residential ambiance from 16120 Atlantic Avenue.

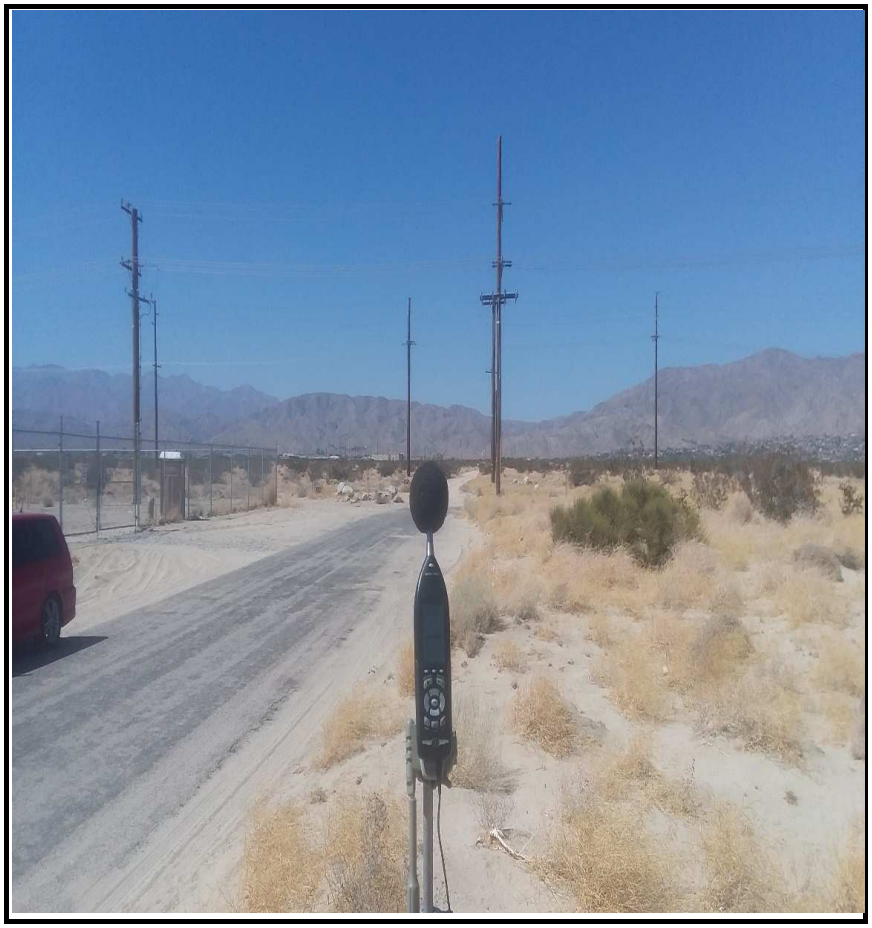
Secondary Noise Sources: Slight traffic ambiance from vehicles traveling on Dillon Rd & Palm Drive. Distant jet and propeller air traffic.

NOISE METER:	SoundTrack LXT Class 1	**CALIBRATOR:**	Larson Davis CAL250
MAKE:	Larson Davis	**MAKE:**	Larson Davis
MODEL:	LXT1	**MODEL:**	Cal 250
SERIAL NUMBER:	3099	**SERIAL NUMBER:**	2733
FACTORY CALIBRATION DATE:	4/9/2020	**FACTORY CALIBRATION DATE:**	4/2/2020
FIELD CALIBRATION DATE:	8/10/2020		

PHOTOS:



STNM5 looking S down Atlantic Avenue passed residence 16120 Atlantic Ave towards Dillon Road.



STNM5 looking N up Atlantic Ave towards 16th Avenue intersection.

Summary	
File Name on Meter	LxT_Data.053
File Name on PC	SLM_0003099_LxT_Data_053.00.ldbin
Serial Number	0003099
Model	SoundTrack LxT®
Firmware Version	2.402
User	Ian Edward Gallagher
Location	STNM5 JN 19273 Desert Hot Springs 33°55'53.63"N 116°31'7.19"W
Job Description	15 minute noise measurement (1 x 15 minutes)

Measurement	
Start	2020-08-10 14:51:33
Stop	2020-08-10 15:06:33
Duration	00:15:00.0
Run Time	00:15:00.0
Pause	00:00:00.0
Pre Calibration	2020-08-10 14:51:17
Post Calibration	None

Overall Settings	
RMS Weight	A Weighting
Peak Weight	Z Weighting
Detector	Slow
Preamp	PRMLxT1L
Microphone Correction	Off
Integration Method	Linear
OBA Range	Low
OBA Bandwidth	1/1 and 1/3
OBA Freq. Weighting	Z Weighting
OBA Max Spectrum	Bin Max
Overload	122.7 dB

Results				
L_{Aeq}	44.8			
LAE	74.4			
EA	3.027	µPa²h		
EA8	96.851	µPa²h		
EA40	484.257	µPa²h		
$L_{Zpeak\ (max)}$	2020-08-10 14:53:43	118.6 dB		
L_{ASmax}	2020-08-10 14:53:49	57.3 dB		
L_{ASmin}	2020-08-10 15:04:37	36.9 dB		
SEA	-99.9 dB			

			Statistics	
L_{Ceq}	74.7 dB		**LAI2.00**	50.7 dB
L_{Aeq}	44.8 dB		**LAI8.00**	48.8 dB
L_{Ceq} - L_{Aeq}	29.9 dB		**LAI25.00**	45.5 dB
L_{AIeq}	48.4 dB		**LAI50.00**	42.6 dB
L_{Aeq}	44.8 dB		**LAI66.60**	41.1 dB
L_{AIeq} - L_{Aeq}	3.6 dB		**LAI90.00**	39.0 dB
# Overloads	0			

Noise Measurement
Field Data

Project Name: DHS 109 Power Plant Project, City of Desert Hot Springs. **Date:** Aug 10 to 11, 2020

Project #: JN 19273

Noise Measurement #: LTNM1 Run Time: 24 hours (24 x 1 hours) **Technician:** Ian Gallagher

Nearest Address or Cross Street: North of Atlantic Ave & 16th Ave, LTNM1 Lat/Long 33°55'59.07"N 116°31'8.47"W.

Site Description (Type of Existing Land Use and any other notable features): Project Site: Vacant land with 16th Ave to south, Atlantic Ave to east, 15th Ave to north, & drainage channel to west. Noise Measurement Site: Vacant project site to west, north, and south, single-family residential further south, Atlantic Ave to east with vacant land further east.

Weather: Clear skies . Sunset/ Rise 7:38PM/ 6:05AM **Settings:** SLOW FAST

Temperature: 77 to 107 deg F **Wind:** 4-18mph **Humidity:** 9 to 20% **Terrain:** Flat

Start Time: 5:00 PM **End Time:** 5:00 PM **Run Time:**

Leq: 49.3 dB

Lmax 71 dB

L2 59.3 dB

L8 53.9 dB

L25 45.8 dB

L50 40.3 dB

Primary Noise Source: Wildlife, bird noises, bird song, crickets. Breeze blowing through desert shrubbery, blowing across power lines. Slight residential ambiance.

Secondary Noise Sources: Slight traffic ambiance from vehicles traveling on Dillon Rd & Palm Drive. Distant jet and propeller air traffic.

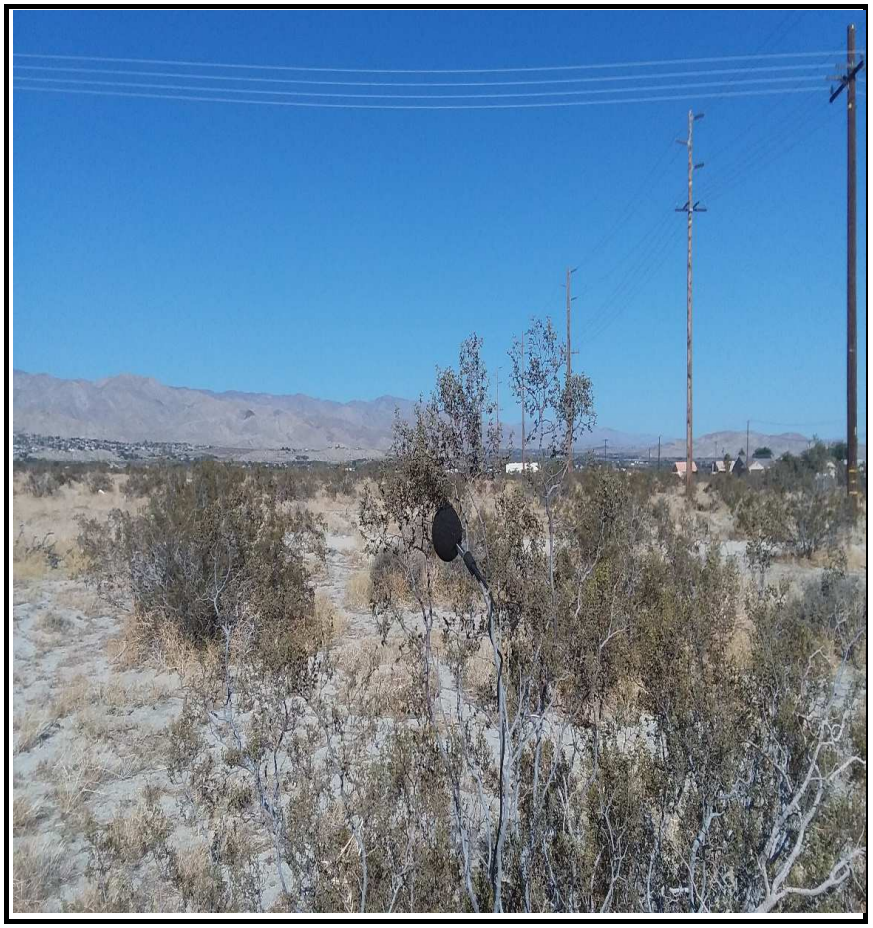
NOISE METER:	SoundTrack LXT Class 1	**CALIBRATOR:**	Larson Davis CAL250
MAKE:	Larson Davis	**MAKE:**	Larson Davis
MODEL:	LXT1	**MODEL:**	Cal 250
SERIAL NUMBER:	3099	**SERIAL NUMBER:**	2733
FACTORY CALIBRATION DATE:	4/9/2020	**FACTORY CALIBRATION DATE:**	4/2/2020
FIELD CALIBRATION DATE:	8/10/2020		

Noise Measurement
Field Data

PHOTOS:



LTNM1 looking SE across 16th Ave & Atlantic Ave towards residence 16120 Atlantic Ave, Desert Hot Springs.



LTNM1 looking N along Atlantic Ave (dirt road) following power line poles.

Summary		
File Name on Meter	LxT_Data.054	
File Name on PC	SLM_0003099_LxT_Data_054.00.ldbin	
Serial Number	0003099	
Model	SoundTrack LxT®	
Firmware Version	2.402	
User	Ian Edward Gallagher	
Location	LTNM1 JN 19273 Desert Hot Springs 33°55'59.07"N 116°31'8.47"W	
Job Description	24 hour noise measurement (24 x 1 hours)	
Measurement		
Start	2020-08-10 17:00:00	
Stop	2020-08-11 17:00:00	
Duration	24:00:00.0	
Run Time	24:00:00.0	
Pause	00:00:00.0	
Pre Calibration	2020-08-10 16:05:21	
Post Calibration	None	
Overall Settings		
RMS Weight	A Weighting	
Peak Weight	A Weighting	
Detector	Slow	
Preamp	PRMLxT1L	
Microphone Correction	Off	
Integration Method	Linear	
OBA Range	Normal	
OBA Bandwidth	1/1 and 1/3	
OBA Freq. Weighting	A Weighting	
OBA Max Spectrum	Bin Max	
Overload	122.7 dB	
Results		
LAeq	49.3	
LAE	98.6	
EA	812.189 µPa²h	
EA8	270.730 µPa²h	
EA40	1.354 mPa²h	
LApeak (max)	2020-08-10 20:14:11	84.6 dB
LASmax	2020-08-10 20:38:25	71.0 dB
LASmin	2020-08-11 13:52:07	30.3 dB
SEA	-99.9 dB	

		Statistics	
LCeq	71.3 dB	**LAI2.00**	59.3 dB
LAeq	49.3 dB	**LAI8.00**	53.9 dB
LCeq - LAeq	22.0 dB	**LAI25.00**	45.8 dB
LAIeq	51.5 dB	**LAI50.00**	40.3 dB
LAeq	49.3 dB	**LAI90.00**	35.3 dB
LAIeq - LAeq	2.2 dB	**LAI99.00**	32.5 dB
# Overloads	0		

Record #	Date	Time	Run Duration	Run Time	Pause	LAeq	LASmin	LASmin Time	LASmax	LASmax Time	LAS2.00	LAS8.00	LAS25.00	LAS50.00	LAS90.00	LAS99.00
1	2020-08-10	17:00:00	01:00:00.0	01:00:00.0	00:00:00.0	52.8	35.2	17:46:32	68.8	17:56:20	61.0	57.0	52.7	48.8	42.1	37.3
2	2020-08-10	18:00:00	01:00:00.0	01:00:00.0	00:00:00.0	55.1	38.8	18:53:37	68.4	18:16:46	62.2	59.5	56.0	52.2	45.0	40.2
3	2020-08-10	19:00:00	01:00:00.0	01:00:00.0	00:00:00.0	55.6	38.7	19:22:15	67.7	19:52:12	62.9	60.0	56.3	52.4	45.7	42.1
4	2020-08-10	20:00:00	01:00:00.0	01:00:00.0	00:00:00.0	56.5	38.6	20:55:09	71.0	20:38:25	64.4	61.3	56.9	52.4	44.3	39.6
5	2020-08-10	21:00:00	01:00:00.0	01:00:00.0	00:00:00.0	47.0	36.2	21:35:57	63.9	21:04:47	55.0	51.4	46.5	42.6	38.5	37.0
6	2020-08-10	22:00:00	01:00:00.0	01:00:00.0	00:00:00.0	47.1	33.7	22:42:51	62.7	22:26:08	55.4	51.6	47.2	42.5	37.5	35.4
7	2020-08-10	23:00:00	01:00:00.0	01:00:00.0	00:00:00.0	42.0	35.0	23:25:47	57.8	23:08:47	49.4	45.6	41.4	39.0	36.9	35.9
8	2020-08-11	00:00:00	01:00:00.0	01:00:00.0	00:00:00.0	42.7	34.1	00:29:12	57.3	00:24:53	50.4	46.7	42.6	39.3	36.1	34.8
9	2020-08-11	01:00:00	01:00:00.0	01:00:00.0	00:00:00.0	45.5	34.8	01:53:50	65.7	01:29:51	53.3	49.1	43.0	38.8	36.3	35.6
10	2020-08-11	02:00:00	01:00:00.0	01:00:00.0	00:00:00.0	39.2	33.3	02:57:22	59.2	02:32:20	44.1	40.1	37.9	36.6	35.1	34.1
11	2020-08-11	03:00:00	01:00:00.0	01:00:00.0	00:00:00.0	38.0	32.8	03:06:47	55.3	03:49:52	42.9	39.2	37.6	36.6	35.2	34.2
12	2020-08-11	04:00:00	01:00:00.0	01:00:00.0	00:00:00.0	38.4	33.8	04:30:59	52.0	04:45:42	42.9	41.0	38.9	37.3	35.3	34.3
13	2020-08-11	05:00:00	01:00:00.0	01:00:00.0	00:00:00.0	40.2	35.3	05:01:39	51.3	05:48:38	44.1	42.4	40.9	39.5	37.6	36.2
14	2020-08-11	06:00:00	01:00:00.0	01:00:00.0	00:00:00.0	42.3	37.3	06:01:06	52.7	06:47:53	46.7	44.1	42.7	41.8	40.0	38.5
15	2020-08-11	07:00:00	01:00:00.0	01:00:00.0	00:00:00.0	41.8	36.9	07:59:43	55.4	07:08:01	46.2	43.5	42.1	41.0	39.0	37.8
16	2020-08-11	08:00:00	01:00:00.0	01:00:00.0	00:00:00.0	45.1	35.1	08:28:38	60.3	08:45:11	52.9	49.0	44.8	41.6	38.3	36.4
17	2020-08-11	09:00:00	01:00:00.0	01:00:00.0	00:00:00.0	44.2	34.2	09:53:36	58.7	09:23:33	52.2	48.3	44.2	40.8	37.0	35.3
18	2020-08-11	10:00:00	01:00:00.0	01:00:00.0	00:00:00.0	41.7	33.1	10:42:10	59.6	10:57:06	50.4	45.4	40.2	37.5	35.1	34.0
19	2020-08-11	11:00:00	01:00:00.0	01:00:00.0	00:00:00.0	38.0	31.3	11:31:24	51.5	11:30:30	44.0	41.0	38.3	36.5	33.9	32.6
20	2020-08-11	12:00:00	01:00:00.0	01:00:00.0	00:00:00.0	37.9	31.4	12:03:55	51.0	12:33:25	44.4	41.5	37.8	35.7	33.4	32.3
21	2020-08-11	13:00:00	01:00:00.0	01:00:00.0	00:00:00.0	43.9	30.3	13:52:07	67.2	13:36:59	48.1	42.1	38.2	35.9	32.7	31.0
22	2020-08-11	14:00:00	01:00:00.0	01:00:00.0	00:00:00.0	35.9	30.8	14:34:58	48.0	14:46:53	41.3	38.2	36.2	34.9	32.5	31.5
23	2020-08-11	15:00:00	01:00:00.0	01:00:00.0	00:00:00.0	50.0	30.5	15:04:00	69.7	15:22:43	59.3	54.5	48.9	43.1	34.3	31.8
24	2020-08-11	16:00:00	01:00:00.0	01:00:00.0	00:00:00.0	54.1	33.8	16:06:08	67.2	16:53:56	62.0	58.9	54.7	50.3	42.1	37.5

APPENDIX D

CONSTRUCTION NOISE MODELING

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 9/19/2017
Case Description: 6627a DHS 109

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Residential	Residential	65	65	45

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Grader	No	40	85		25	0
Backhoe	No	40		77.6	100	0
Dozer	No	40		81.7	175	0
Dump Truck	No	40		76.5	250	0
Backhoe	No	40		77.6	300	0
Scraper	No	40		83.6	350	0

Results

Equipment		Calculated (dBA) *Lmax	Leq	Day Lmax
Grader		91	87	N/A
Backhoe		71.5	67.6	N/A
Dozer		70.8	66.8	N/A
Dump Truck		62.5	58.5	N/A
Backhoe		62	58	N/A
Scraper		66.7	62.7	N/A
	Total	91	87.2	N/A

*Calculated Lmax is the Loudest value.

APPENDIX E

PROJECT GENERATED TRIPS FHWA WORSKHEETS

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**

Road: **Pierson Boulevard**

Segment: **West of Indian Canyon Drive**

	DAYTIME			EVENING			NIGHTTIME			ADT	3000.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	50.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	173.75	3.60	6.00	129.00	0.60	1.00	32.00	5.00	8.33	% A	92
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	71.12	78.79	83.02	% HT	5
ADJUSTMENTS											
Flow	15.10	-1.73	0.49	13.81	-9.51	-7.30	7.76	-0.31	1.91		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	68.37
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	63.34
LEQ	61.15	51.99	58.44	59.86	44.21	50.65	53.81	53.42	59.86	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	63.34		EVENING LEQ	60.46		NIGHT LEQ	61.55		Use hour?	no
										GRADE dB	0.00
		CNEL	**68.37**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Pierson Boulevard**
Segment: **West of Indian Canyon Drive**

	DAYTIME			EVENING			NIGHTTIME			ADT	3199.96
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	50.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	186.01	3.75	6.06	138.10	0.62	1.01	34.26	5.20	8.42	% A	92.34
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.93
NOISE CALCULATIONS											
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	71.12	78.79	83.02	% HT	4.73
ADJUSTMENTS											
Flow	15.40	-1.56	0.53	14.11	-9.34	-7.25	8.05	-0.13	1.96		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	68.51
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	63.55
LEQ	61.45	52.17	58.48	60.16	44.38	50.70	54.10	53.59	59.91	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	63.55		EVENING LEQ	60.72		NIGHT LEQ	61.66		Use hour?	no
										GRADE dB	0.00
		CNEL	**68.51**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**

Road: **Pierson Boulevard**

Segment: **Indian Canyon Drive to Little Morongo Road**

	DAYTIME			EVENING			NIGHTTIME			ADT	5100.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	50.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	295.38	6.12	10.20	219.30	1.02	1.70	54.40	8.50	14.17	% A	92
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	71.12	78.79	83.02	% HT	5
ADJUSTMENTS											
Flow	17.41	0.57	2.79	16.11	-7.21	-4.99	10.06	2.00	4.22		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	70.68
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	65.65
LEQ	63.46	54.30	60.74	62.16	46.51	52.96	56.11	55.72	62.17	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	65.65		EVENING LEQ	62.76		NIGHT LEQ	63.85		Use hour?	no
										GRADE dB	0.00
		CNEL	**70.68**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Pierson Boulevard**
Segment: **Indian Canyon Drive to Little Morongo Road**

	DAYTIME			EVENING			NIGHTTIME			ADT	5299.96
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	50.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	307.64	6.27	10.26	228.40	1.04	1.71	56.66	8.70	14.25	% A	92.20
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.96
NOISE CALCULATIONS											
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	71.12	78.79	83.02	% HT	4.84
ADJUSTMENTS											
Flow	17.58	0.68	2.82	16.29	-7.11	-4.97	10.24	2.10	4.24		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	70.76
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	65.77
LEQ	63.63	54.40	60.77	62.34	46.62	52.98	56.29	55.83	62.19	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	65.77		EVENING LEQ	62.92		NIGHT LEQ	63.92		Use hour?	no
										GRADE dB	0.00
		CNEL	**70.76**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**
Road: **Pierson Boulevard**
Segment: **East of Little Morongo Road**

	DAYTIME			EVENING			NIGHTTIME			ADT	7400.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	50.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	428.58	8.88	14.80	318.20	1.48	2.47	78.93	12.33	20.56	% A	92
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	71.12	78.79	83.02	% HT	5
ADJUSTMENTS											
Flow	19.02	2.19	4.41	17.73	-5.59	-3.37	11.68	3.62	5.83		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	72.30
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	67.27
LEQ	65.07	55.91	62.36	63.78	48.13	54.58	57.73	57.34	63.78	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	67.27		EVENING LEQ	64.38		NIGHT LEQ	65.47		Use hour?	no
										GRADE dB	0.00
		CNEL	**72.30**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Pierson Boulevard**
Segment: **East of Little Morongo Road**

	DAYTIME			EVENING			NIGHTTIME			ADT	7599.96
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	50.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	440.85	9.03	14.86	327.30	1.50	2.48	81.19	12.54	20.64	% A	92.14
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.97
NOISE CALCULATIONS											
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	71.12	78.79	83.02	% HT	4.89
ADJUSTMENTS											
Flow	19.15	2.26	4.42	17.85	-5.52	-3.36	11.80	3.69	5.85		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	72.35
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	67.35
LEQ	65.20	55.98	62.37	63.90	48.20	54.59	57.85	57.41	63.80	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	67.35		EVENING LEQ	64.49		NIGHT LEQ	65.51		Use hour?	no
										GRADE dB	0.00
		CNEL	**72.35**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**

Road: **Dillon Road**

Segment: **West of Indian Canyon Drive**

	DAYTIME			EVENING			NIGHTTIME			ADT	2500.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	144.79	3.00	5.00	107.50	0.50	0.83	26.67	4.17	6.94	% A	92
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	5
ADJUSTMENTS											
Flow	13.90	-2.94	-0.72	12.60	-10.72	-8.50	6.55	-1.51	0.71		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	68.24
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	63.46
LEQ	61.55	51.84	58.03	60.26	44.06	50.24	54.21	53.27	59.45	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	63.46		EVENING LEQ	60.77		NIGHT LEQ	61.33		Use hour?	no
										GRADE dB	0.00
		CNEL	**68.24**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Dillon Road**
Segment: **West of Indian Canyon Drive**

	DAYTIME			EVENING			NIGHTTIME			ADT	2699.96
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	157.05	3.15	5.06	116.60	0.52	0.84	28.93	4.37	7.03	% A	92.40
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.91
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	4.68
ADJUSTMENTS											
Flow	14.25	-2.73	-0.67	12.96	-10.51	-8.45	6.90	-1.30	0.76		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	68.41
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	63.72
LEQ	61.91	52.05	58.08	60.61	44.27	50.29	54.56	53.48	59.50	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	63.72		EVENING LEQ	61.09		NIGHT LEQ	61.46		Use hour?	no
										GRADE dB	0.00
		CNEL	**68.41**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**
Road: **Palm Drive**
Segment: **South of Varner Rd**

	DAYTIME			EVENING			NIGHTTIME			ADT	29900.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	40.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	1731.71	35.88	59.80	1285.70	5.98	9.97	318.93	49.83	83.06	% A	92
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	67.36	76.31	81.16	% HT	5
ADJUSTMENTS											
Flow	26.06	9.22	11.44	24.76	1.44	3.66	18.71	10.65	12.87		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	76.93
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	71.34
LEQ	68.35	60.46	67.53	67.05	52.68	59.75	61.00	61.89	68.96	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	71.34		EVENING LEQ	67.93		NIGHT LEQ	70.28		Use hour?	no
										GRADE dB	0.00
		CNEL	**76.93**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Palm Drive**
Segment: **South of Varner Rd**

	DAYTIME			EVENING			NIGHTTIME			ADT	30199.94
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	40.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	1750.10	36.10	59.89	1299.36	6.02	9.98	322.32	50.14	83.18	% A	92.05
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.99
NOISE CALCULATIONS											
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	67.36	76.31	81.16	% HT	4.96
ADJUSTMENTS											
Flow	26.10	9.25	11.45	24.81	1.47	3.67	18.76	10.68	12.87		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	76.94
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	71.37
LEQ	68.39	60.49	67.54	67.10	52.71	59.76	61.05	61.92	68.96	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	71.37		EVENING LEQ	67.97		NIGHT LEQ	70.30		Use hour?	no
										GRADE dB	0.00
		CNEL	**76.94**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**
Road: **Hacienda Ave**
Segment: **E. of Palm Drive**

	DAYTIME			EVENING			NIGHTTIME			ADT	8500.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	40.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	492.29	10.20	17.00	365.50	1.70	2.83	90.67	14.17	23.61	% A	92
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	67.36	76.31	81.16	% HT	5
ADJUSTMENTS											
Flow	20.60	3.76	5.98	19.30	-4.02	-1.80	13.25	5.19	7.40		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	71.46
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	65.88
LEQ	62.89	55.00	62.07	61.59	47.22	54.29	55.54	56.43	63.49	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	65.88		EVENING LEQ	62.46		NIGHT LEQ	64.82		Use hour?	no
										GRADE dB	0.00
		CNEL	**71.46**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Hacienda Ave**
Segment: **E. of Palm Drive**

	DAYTIME			EVENING			NIGHTTIME			ADT	8599.98
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	40.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	498.42	10.27	17.03	370.05	1.71	2.84	91.80	14.27	23.65	% A	92.06
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.99
NOISE CALCULATIONS											
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	67.36	76.31	81.16	% HT	4.95
ADJUSTMENTS											
Flow	20.65	3.79	5.99	19.36	-3.99	-1.80	13.30	5.22	7.41		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	71.48
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	65.91
LEQ	62.94	55.03	62.08	61.65	47.25	54.29	55.59	56.46	63.50	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	65.91		EVENING LEQ	62.51		NIGHT LEQ	64.84		Use hour?	no
										GRADE dB	0.00
		CNEL	**71.48**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**
Road: **Ironwood Drive**
Segment: **W. of Palm Drive**

	DAYTIME			EVENING			NIGHTTIME			ADT	3000.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	35.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	173.75	3.60	6.00	129.00	0.60	1.00	32.00	5.00	8.33	% A	92
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	65.11	74.83	80.05	% HT	5
ADJUSTMENTS											
Flow	16.65	-0.18	2.03	15.36	-7.97	-5.75	9.30	1.24	3.46		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	66.15
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	60.25
LEQ	56.69	49.57	57.01	55.40	41.79	49.23	49.34	51.00	58.44	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	60.25		EVENING LEQ	56.49		NIGHT LEQ	59.59		Use hour?	no
										GRADE dB	0.00
		CNEL	**66.15**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Ironwood Drive**
Segment: **W. of Palm Drive**

	DAYTIME			EVENING			NIGHTTIME			ADT	3099.98
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	35.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	179.88	3.67	6.03	133.55	0.61	1.00	33.13	5.10	8.37	% A	92.17
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.96
NOISE CALCULATIONS											
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	65.11	74.83	80.05	% HT	4.86
ADJUSTMENTS											
Flow	16.80	-0.10	2.06	15.51	-7.88	-5.73	9.46	1.33	3.48		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	66.20
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	60.34
LEQ	56.84	49.66	57.03	55.55	41.88	49.25	49.50	51.09	58.46	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	60.34		EVENING LEQ	56.61		NIGHT LEQ	59.63		Use hour?	no
										GRADE dB	0.00
		CNEL	**66.20**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**
Road: **Ironwood Drive**
Segment: **E. of Palm Drive**

	DAYTIME			EVENING			NIGHTTIME			ADT	3500.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	35.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	202.71	4.20	7.00	150.50	0.70	1.17	37.33	5.83	9.72	% A	92
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	65.11	74.83	80.05	% HT	5
ADJUSTMENTS											
Flow	17.32	0.49	2.70	16.03	-7.30	-5.08	9.97	1.91	4.13		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	66.82
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	60.92
LEQ	57.36	50.24	57.68	56.07	42.46	49.90	50.01	51.67	59.11	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	60.92		EVENING LEQ	57.16		NIGHT LEQ	60.26		Use hour?	no
										GRADE dB	0.00
		CNEL	**66.82**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Ironwood Drive**
Segment: **E. of Palm Drive**

	DAYTIME			EVENING			NIGHTTIME			ADT	3599.98
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	35.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	208.84	4.27	7.03	155.05	0.71	1.17	38.46	5.94	9.76	% A	92.15
Speed in MPH	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.97
NOISE CALCULATIONS											
Reference levels	65.11	74.83	80.05	65.11	74.83	80.05	65.11	74.83	80.05	% HT	4.88
ADJUSTMENTS											
Flow	17.45	0.56	2.72	16.16	-7.22	-5.06	10.10	1.99	4.15		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	66.86
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	61.00
LEQ	57.49	50.32	57.70	56.20	42.54	49.92	50.14	51.75	59.13	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	61.00		EVENING LEQ	57.27		NIGHT LEQ	60.30		Use hour?	no
										GRADE dB	0.00
		CNEL	**66.86**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**
Road: **2 Bunch Palms Dr.**
Segment: **E. of Little Morongo**

	DAYTIME			EVENING			NIGHTTIME			ADT	6000.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	40.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	347.50	7.20	12.00	258.00	1.20	2.00	64.00	10.00	16.67	% A	92
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	67.36	76.31	81.16	% HT	5
ADJUSTMENTS											
Flow	19.08	2.25	4.47	17.79	-5.53	-3.32	11.74	3.67	5.89		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	69.95
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	64.36
LEQ	61.37	53.49	60.55	60.08	45.71	52.77	54.03	54.92	61.98	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	64.36		EVENING LEQ	60.95		NIGHT LEQ	63.31		Use hour?	no
										GRADE dB	0.00
		CNEL	**69.95**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **2 Bunch Palms Dr.**
Segment: **E. of Little Morongo**

	DAYTIME			EVENING			NIGHTTIME			ADT	6599.88
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	40.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	384.29	7.64	12.18	285.31	1.27	2.03	70.78	10.61	16.91	% A	92.49
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.89
NOISE CALCULATIONS											
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	67.36	76.31	81.16	% HT	4.61
ADJUSTMENTS											
Flow	19.52	2.51	4.53	18.23	-5.28	-3.25	12.17	3.93	5.96		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	70.12
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	64.63
LEQ	61.81	53.75	60.62	60.52	45.97	52.84	54.46	55.17	62.05	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	64.63		EVENING LEQ	61.33		NIGHT LEQ	63.44		Use hour?	no
										GRADE dB	0.00
		CNEL	**70.12**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**
Road: **2 Bunch Palms Dr.**
Segment: **W. of Palm Drive**

	DAYTIME			EVENING			NIGHTTIME			ADT	11900.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	40.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	689.21	14.28	23.80	511.70	2.38	3.97	126.93	19.83	33.06	% A	92
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	67.36	76.31	81.16	% HT	5
ADJUSTMENTS											
Flow	22.06	5.22	7.44	20.76	-2.56	-0.34	14.71	6.65	8.87		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	72.92
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	67.34
LEQ	64.35	56.46	63.53	63.05	48.68	55.75	57.00	57.89	64.96	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	67.34		EVENING LEQ	63.93		NIGHT LEQ	66.28		Use hour?	no
										GRADE dB	0.00
		CNEL	**72.92**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **2 Bunch Palms Dr.**
Segment: **W. of Palm Drive**

	DAYTIME			EVENING			NIGHTTIME			ADT	12499.88
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	40.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	726.00	14.72	23.98	539.01	2.45	4.00	133.71	20.45	33.30	% A	92.26
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.94
NOISE CALCULATIONS											
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	67.36	76.31	81.16	% HT	4.80
ADJUSTMENTS											
Flow	22.28	5.35	7.47	20.99	-2.43	-0.31	14.94	6.78	8.90		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	73.01
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	67.48
LEQ	64.57	56.60	63.56	63.28	48.81	55.78	57.23	58.02	64.99	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	67.48		EVENING LEQ	64.12		NIGHT LEQ	66.35		Use hour?	no
										GRADE dB	0.00
		CNEL	**73.01**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**
Road: **2 Bunch Palms Dr.**
Segment: **E. of Palm Drive**

	DAYTIME			EVENING			NIGHTTIME			ADT	4600.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	40.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	266.42	5.52	9.20	197.80	0.92	1.53	49.07	7.67	12.78	% A	92
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	67.36	76.31	81.16	% HT	5
ADJUSTMENTS											
Flow	17.93	1.09	3.31	16.64	-6.69	-4.47	10.58	2.52	4.74		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	68.80
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	63.21
LEQ	60.22	52.34	59.40	58.93	44.55	51.62	52.87	53.76	60.83	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	63.21		EVENING LEQ	59.80		NIGHT LEQ	62.15		Use hour?	no
										GRADE dB	0.00
		CNEL	**68.80**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **2 Bunch Palms Dr.**
Segment: **E. of Palm Drive**

	DAYTIME			EVENING			NIGHTTIME			ADT	4699.98
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	40.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	272.55	5.59	9.23	202.35	0.93	1.54	50.20	7.77	12.82	% A	92.12
Speed in MPH	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.98
NOISE CALCULATIONS											
Reference levels	67.36	76.31	81.16	67.36	76.31	81.16	67.36	76.31	81.16	% HT	4.91
ADJUSTMENTS											
Flow	18.03	1.15	3.33	16.73	-6.63	-4.46	10.68	2.58	4.75		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	68.83
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	63.27
LEQ	60.32	52.39	59.41	59.02	44.61	51.63	52.97	53.82	60.84	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	63.27		EVENING LEQ	59.88		NIGHT LEQ	62.18		Use hour?	no
										GRADE dB	0.00
		CNEL	**68.83**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**
Road: **Camino Campanero**
Segment: **E. of Palm Drive**

	DAYTIME			EVENING			NIGHTTIME			ADT	4700.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	25.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	272.21	5.64	9.40	202.10	0.94	1.57	50.13	7.83	13.06	% A	92
Speed in MPH	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	59.44	71.09	77.24	59.44	71.09	77.24	59.44	71.09	77.24	% HT	5
ADJUSTMENTS											
Flow	20.06	3.23	5.45	18.77	-4.55	-2.34	12.72	4.65	6.87		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	66.27
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	59.73
LEQ	54.43	49.24	57.62	53.14	41.46	49.83	47.09	50.67	59.04	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	59.73		EVENING LEQ	55.00		NIGHT LEQ	59.87		Use hour?	no
										GRADE dB	0.00
		CNEL	**66.27**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Camino Campanero**
Segment: **E. of Palm Drive**

	DAYTIME			EVENING			NIGHTTIME			ADT	4799.98
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	25.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	278.34	5.71	9.43	206.65	0.95	1.57	51.26	7.94	13.10	% A	92.11
Speed in MPH	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.98
NOISE CALCULATIONS											
Reference levels	59.44	71.09	77.24	59.44	71.09	77.24	59.44	71.09	77.24	% HT	4.91
ADJUSTMENTS											
Flow	20.16	3.28	5.46	18.87	-4.50	-2.32	12.81	4.71	6.89		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	66.29
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	59.77
LEQ	54.53	49.30	57.63	53.24	41.52	49.85	47.18	50.73	59.06	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	59.77		EVENING LEQ	55.07		NIGHT LEQ	59.89		Use hour?	no
										GRADE dB	0.00
		CNEL	**66.29**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**
Road: **Camino Adventura**
Segment: **E. of Palm Drive**

	DAYTIME			EVENING			NIGHTTIME			ADT	4600.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	25.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	266.42	5.52	9.20	197.80	0.92	1.53	49.07	7.67	12.78	% A	92
Speed in MPH	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	59.44	71.09	77.24	59.44	71.09	77.24	59.44	71.09	77.24	% HT	5
ADJUSTMENTS											
Flow	19.97	3.13	5.35	18.68	-4.65	-2.43	12.62	4.56	6.78		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	66.17
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	59.63
LEQ	54.34	49.15	57.52	53.05	41.37	49.74	46.99	50.58	58.95	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	59.63		EVENING LEQ	54.91		NIGHT LEQ	59.77		Use hour?	no
										GRADE dB	0.00
		CNEL	**66.17**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Camino Adventura**
Segment: **E. of Palm Drive**

	DAYTIME			EVENING			NIGHTTIME			ADT	4699.98
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	25.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	272.55	5.59	9.23	202.35	0.93	1.54	50.20	7.77	12.82	% A	92.12
Speed in MPH	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.98
NOISE CALCULATIONS											
Reference levels	59.44	71.09	77.24	59.44	71.09	77.24	59.44	71.09	77.24	% HT	4.91
ADJUSTMENTS											
Flow	20.07	3.19	5.37	18.78	-4.59	-2.41	12.72	4.62	6.79		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	66.20
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	59.68
LEQ	54.44	49.21	57.54	53.15	41.43	49.76	47.09	50.64	58.96	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	59.68		EVENING LEQ	54.98		NIGHT LEQ	59.80		Use hour?	no
										GRADE dB	0.00
		CNEL	**66.20**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**

Road: **Dillon Road**

Segment: **Indian Canyon Drive to Little Morongo Road**

	DAYTIME			EVENING			NIGHTTIME			ADT	9900.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	573.38	11.88	19.80	425.70	1.98	3.30	105.60	16.50	27.50	% A	92
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	5
ADJUSTMENTS											
Flow	19.87	3.04	5.26	18.58	-4.74	-2.52	12.53	4.47	6.68		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	74.22
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	69.44
LEQ	67.53	57.82	64.00	66.24	50.04	56.22	60.18	59.25	65.43	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	69.44		EVENING LEQ	66.74		NIGHT LEQ	67.30		Use hour?	no
										GRADE dB	0.00
		CNEL	**74.22**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Dillon Road**
Segment: **Indian Canyon Drive to Little Morongo Road**

	DAYTIME			EVENING			NIGHTTIME			ADT	11299.72
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	659.22	12.91	20.21	489.43	2.15	3.37	121.41	17.93	28.08	% A	92.67
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.86
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	4.47
ADJUSTMENTS											
Flow	20.48	3.40	5.35	19.19	-4.38	-2.43	13.13	4.83	6.77		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	74.51
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	69.88
LEQ	68.14	58.18	64.09	66.84	50.40	56.31	60.79	59.61	65.52	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	69.88		EVENING LEQ	67.30		NIGHT LEQ	67.54		Use hour?	no
										GRADE dB	0.00
		CNEL	**74.51**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**
Road: **Dillon Road**
Segment: **Morongo to Atlantic**

	DAYTIME			EVENING			NIGHTTIME			ADT	9900.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	573.38	11.88	19.80	425.70	1.98	3.30	105.60	16.50	27.50	% A	92
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	5
ADJUSTMENTS											
Flow	19.87	3.04	5.26	18.58	-4.74	-2.52	12.53	4.47	6.68		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	74.22
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	69.44
LEQ	67.53	57.82	64.00	66.24	50.04	56.22	60.18	59.25	65.43	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	69.44		EVENING LEQ	66.74		NIGHT LEQ	67.30		Use hour?	no
										GRADE dB	0.00
		CNEL	**74.22**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Dillon Road**
Segment: **Morongo to Atlantic**

	DAYTIME			EVENING			NIGHTTIME			ADT	10999.78
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	640.82	12.69	20.13	475.78	2.11	3.35	118.02	17.62	27.95	% A	92.54
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.88
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	4.57
ADJUSTMENTS											
Flow	20.36	3.33	5.33	19.06	-4.46	-2.45	13.01	4.75	6.75		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	74.45
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	69.79
LEQ	68.01	58.11	64.07	66.72	50.33	56.29	60.67	59.53	65.50	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	69.79		EVENING LEQ	67.19		NIGHT LEQ	67.49		Use hour?	no
										GRADE dB	0.00
		CNEL	**74.45**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**

Road: **Dillon Road**

Segment: **Atlantic Avenue to Palm Drive**

	DAYTIME			EVENING			NIGHTTIME			ADT	9900.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	573.38	11.88	19.80	425.70	1.98	3.30	105.60	16.50	27.50	% A	92
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	5
ADJUSTMENTS											
Flow	19.87	3.04	5.26	18.58	-4.74	-2.52	12.53	4.47	6.68		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	74.22
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	69.44
LEQ	67.53	57.82	64.00	66.24	50.04	56.22	60.18	59.25	65.43	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	69.44		EVENING LEQ	66.74		NIGHT LEQ	67.30		Use hour?	no
										GRADE dB	0.00
		CNEL	**74.22**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Dillon Road**
Segment: **Atlantic Avenue to Palm Drive**

	DAYTIME			EVENING			NIGHTTIME			ADT	10999.78
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	640.82	12.69	20.13	475.78	2.11	3.35	118.02	17.62	27.95	% A	92.54
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.88
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	4.57
ADJUSTMENTS											
Flow	20.36	3.33	5.33	19.06	-4.46	-2.45	13.01	4.75	6.75		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	74.45
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	69.79
LEQ	68.01	58.11	64.07	66.72	50.33	56.29	60.67	59.53	65.50	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	69.79		EVENING LEQ	67.19		NIGHT LEQ	67.49		Use hour?	no
										GRADE dB	0.00
		CNEL	**74.45**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**
Road: **Dillon Road**
Segment: **East of Palm Drive**

	DAYTIME			EVENING			NIGHTTIME			ADT	10300.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	596.54	12.36	20.60	442.90	2.06	3.43	109.87	17.17	28.61	% A	92
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	5
ADJUSTMENTS											
Flow	20.05	3.21	5.43	18.75	-4.57	-2.35	12.70	4.64	6.86		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	74.39
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	69.61
LEQ	67.70	57.99	64.17	66.41	50.21	56.39	60.36	59.42	65.60	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	69.61		EVENING LEQ	66.92		NIGHT LEQ	67.48		Use hour?	no
										GRADE dB	0.00
		CNEL	**74.39**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Dillon Road**
Segment: **East of Palm Drive**

	DAYTIME			EVENING			NIGHTTIME			ADT	10599.94
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	614.94	12.58	20.69	456.56	2.10	3.45	113.25	17.47	28.73	% A	92.15
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.97
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	4.88
ADJUSTMENTS											
Flow	20.18	3.29	5.45	18.89	-4.49	-2.33	12.83	4.71	6.87		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	74.45
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	69.70
LEQ	67.83	58.07	64.19	66.54	50.29	56.41	60.49	59.50	65.62	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	69.70		EVENING LEQ	67.04		NIGHT LEQ	67.53		Use hour?	no
										GRADE dB	0.00
		CNEL	**74.45**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**
Road: **Garnet Avenue**
Segment: **East of I-10 Off-ramp**

	DAYTIME			EVENING			NIGHTTIME			ADT	5600.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	50.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	324.33	6.72	11.20	240.80	1.12	1.87	59.73	9.33	15.56	% A	92
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	71.12	78.79	83.02	% HT	5
ADJUSTMENTS											
Flow	17.81	0.98	3.20	16.52	-6.80	-4.58	10.47	2.40	4.62		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	71.08
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	66.06
LEQ	63.86	54.70	61.15	62.57	46.92	53.37	56.52	56.13	62.57	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	66.06		EVENING LEQ	63.17		NIGHT LEQ	64.26		Use hour?	no
										GRADE dB	0.00
		CNEL	**71.08**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Garnet Avenue**
Segment: **East of I-10 Off-ramp**

	DAYTIME			EVENING			NIGHTTIME			ADT	6099.90
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	50.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	354.99	7.09	11.35	263.56	1.18	1.89	65.38	9.84	15.76	% A	92.44
Speed in MPH	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.90
NOISE CALCULATIONS											
Reference levels	71.12	78.79	83.02	71.12	78.79	83.02	71.12	78.79	83.02	% HT	4.65
ADJUSTMENTS											
Flow	18.21	1.21	3.25	16.91	-6.57	-4.53	10.86	2.64	4.68		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	71.26
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	66.33
LEQ	64.26	54.93	61.20	62.96	47.15	53.42	56.91	56.36	62.63	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	66.33		EVENING LEQ	63.52		NIGHT LEQ	64.40		Use hour?	no
										GRADE dB	0.00
		CNEL	**71.26**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**
Road: **Varner Road**
Segment: **E. of Palm Drive**

	DAYTIME			EVENING			NIGHTTIME			ADT	1900.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	45.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	110.04	2.28	3.80	81.70	0.38	0.63	20.27	3.17	5.28	% A	92
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	69.34	77.62	82.14	% HT	5
ADJUSTMENTS											
Flow	13.58	-3.26	-1.04	12.28	-11.04	-8.82	6.23	-1.83	0.39		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	65.70
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	60.40
LEQ	57.85	49.29	56.03	56.56	41.51	48.25	50.50	50.72	57.46	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	60.40		EVENING LEQ	57.27		NIGHT LEQ	58.96		Use hour?	no
										GRADE dB	0.00
		CNEL	**65.70**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Varner Road**
Segment: **E. of Palm Drive**

	DAYTIME			EVENING			NIGHTTIME			ADT	2099.96
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	45.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	122.30	2.43	3.86	90.80	0.40	0.64	22.53	3.37	5.36	% A	92.52
Speed in MPH	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.89
NOISE CALCULATIONS											
Reference levels	69.34	77.62	82.14	69.34	77.62	82.14	69.34	77.62	82.14	% HT	4.59
ADJUSTMENTS											
Flow	14.04	-2.99	-0.97	12.74	-10.77	-8.75	6.69	-1.56	0.45		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	65.89
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	60.70
LEQ	58.31	49.57	56.10	57.02	41.78	48.32	50.96	50.99	57.53	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	60.70		EVENING LEQ	57.68		NIGHT LEQ	59.12		Use hour?	no
										GRADE dB	0.00
		CNEL	**65.89**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**

Road: **Indian Canyon Drive**

Segment: **North of Pierson Boulevard**

	DAYTIME			EVENING			NIGHTTIME			ADT	6600.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	382.25	7.92	13.20	283.80	1.32	2.20	70.40	11.00	18.33	% A	92
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	5
ADJUSTMENTS											
Flow	18.11	1.28	3.50	16.82	-6.50	-4.29	10.77	2.70	4.92		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	72.46
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	67.68
LEQ	65.77	56.06	62.24	64.48	48.28	54.46	58.42	57.49	63.67	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	67.68		EVENING LEQ	64.98		NIGHT LEQ	65.54		Use hour?	no
										GRADE dB	0.00
		CNEL	**72.46**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Indian Canyon Drive**
Segment: **North of Pierson Boulevard**

	DAYTIME			EVENING			NIGHTTIME			ADT	6799.96
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	394.51	8.07	13.26	292.90	1.34	2.21	72.66	11.20	18.42	% A	92.16
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.97
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	4.87
ADJUSTMENTS											
Flow	18.25	1.36	3.52	16.96	-6.42	-4.27	10.90	2.78	4.94		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	72.52
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	67.78
LEQ	65.91	56.14	62.26	64.61	48.36	54.48	58.56	57.57	63.69	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	67.78		EVENING LEQ	65.11		NIGHT LEQ	65.59		Use hour?	no
										GRADE dB	0.00
		CNEL	**72.52**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**

Road: **Indian Canyon Drive**

Segment: **Pierson Boulevard to Dillon Road**

	DAYTIME			EVENING			NIGHTTIME			ADT	8700.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	503.88	10.44	17.40	374.10	1.74	2.90	92.80	14.50	24.17	% A	92
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	5
ADJUSTMENTS											
Flow	19.31	2.48	4.70	18.02	-5.30	-3.09	11.97	3.90	6.12		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	73.66
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	68.87
LEQ	66.97	57.26	63.44	65.68	49.48	55.66	59.62	58.69	64.87	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	68.87		EVENING LEQ	66.18		NIGHT LEQ	66.74		Use hour?	no
										GRADE dB	0.00
		CNEL	**73.66**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Indian Canyon Drive**
Segment: **Pierson Boulevard to Dillon Road**

	DAYTIME			EVENING			NIGHTTIME			ADT	8899.96
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	516.14	10.59	17.46	383.20	1.76	2.91	95.06	14.70	24.25	% A	92.12
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.97
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	4.90
ADJUSTMENTS											
Flow	19.42	2.54	4.71	18.12	-5.24	-3.07	12.07	3.97	6.14		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	73.71
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	68.95
LEQ	67.07	57.32	63.46	65.78	49.54	55.67	59.73	58.75	64.88	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	68.95		EVENING LEQ	66.28		NIGHT LEQ	66.78		Use hour?	no
										GRADE dB	0.00
		CNEL	**73.71**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**
Road: **Indian Canyon Drive**
Segment: **Dillon Road to Garnet**

	DAYTIME			EVENING			NIGHTTIME			ADT	13900.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	805.04	16.68	27.80	597.70	2.78	4.63	148.27	23.17	38.61	% A	92
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	5
ADJUSTMENTS											
Flow	21.35	4.51	6.73	20.06	-3.27	-1.05	14.00	5.94	8.16		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	75.69
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	70.91
LEQ	69.00	59.30	65.48	67.71	51.51	57.69	61.66	60.72	66.90	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	70.91		EVENING LEQ	68.22		NIGHT LEQ	68.78		Use hour?	no
										GRADE dB	0.00
		CNEL	**75.69**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Indian Canyon Drive**
Segment: **Dillon Road to Garnet**

	DAYTIME			EVENING			NIGHTTIME			ADT	14999.78
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	872.49	17.49	28.13	647.78	2.91	4.69	160.69	24.29	39.06	% A	92.40
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.91
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	4.69
ADJUSTMENTS											
Flow	21.70	4.72	6.78	20.40	-3.06	-1.00	14.35	6.15	8.21		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	75.86
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	71.17
LEQ	69.35	59.50	65.53	68.06	51.72	57.74	62.01	60.93	66.95	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	71.17		EVENING LEQ	68.54		NIGHT LEQ	68.91		Use hour?	no
										GRADE dB	0.00
		CNEL	**75.86**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**
Road: **Indian Canyon Drive**
Segment: **South of Garnet Avenue**

	DAYTIME			EVENING			NIGHTTIME			ADT	15500.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	897.71	18.60	31.00	666.50	3.10	5.17	165.33	25.83	43.06	% A	92
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	5
ADJUSTMENTS											
Flow	21.82	4.99	7.20	20.53	-2.80	-0.58	14.47	6.41	8.63		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	76.17
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	71.38
LEQ	69.48	59.77	65.95	68.18	51.99	58.17	62.13	61.20	67.38	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	71.38		EVENING LEQ	68.69		NIGHT LEQ	69.25		Use hour?	no
										GRADE dB	0.00
		CNEL	**76.17**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Indian Canyon Drive**
Segment: **South of Garnet Avenue**

	DAYTIME			EVENING			NIGHTTIME			ADT	15699.96
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	909.97	18.75	31.06	675.60	3.12	5.18	167.59	26.04	43.14	% A	92.07
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.99
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	4.95
ADJUSTMENTS											
Flow	21.88	5.02	7.21	20.59	-2.76	-0.57	14.53	6.45	8.64		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	76.19
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	71.43
LEQ	69.54	59.80	65.96	68.24	52.02	58.18	62.19	61.23	67.38	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	71.43		EVENING LEQ	68.74		NIGHT LEQ	69.27		Use hour?	no
										GRADE dB	0.00
		CNEL	**76.19**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**
Road: **Little Morongo Road**
Segment: **North of Pierson Boulevard**

	DAYTIME			EVENING			NIGHTTIME			ADT	3900.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	225.88	4.68	7.80	167.70	0.78	1.30	41.60	6.50	10.83	% A	92
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	5
ADJUSTMENTS											
Flow	15.83	-1.01	1.21	14.54	-8.79	-6.57	8.48	0.42	2.64		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	70.17
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	65.39
LEQ	63.49	53.78	59.96	62.19	45.99	52.17	56.14	55.20	61.38	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	65.39		EVENING LEQ	62.70		NIGHT LEQ	63.26		Use hour?	no
										GRADE dB	0.00
		CNEL	**70.17**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Little Morongo Road**
Segment: **North of Pierson Boulevard**

	DAYTIME			EVENING			NIGHTTIME			ADT	4099.96
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	238.14	4.83	7.86	176.80	0.80	1.31	43.86	6.70	10.92	% A	92.26
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.94
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	4.79
ADJUSTMENTS											
Flow	16.06	-0.87	1.24	14.77	-8.65	-6.54	8.71	0.55	2.67		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	70.28
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	65.56
LEQ	63.71	53.91	59.99	62.42	46.13	52.21	56.37	55.34	61.42	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	65.56		EVENING LEQ	62.91		NIGHT LEQ	63.35		Use hour?	no
										GRADE dB	0.00
		CNEL	**70.28**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**

Road: **Little Morongo Road**

Segment: **Pierson Boulevard to 2 Bunch Palms Trail**

	DAYTIME			EVENING			NIGHTTIME			ADT	4000.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	231.67	4.80	8.00	172.00	0.80	1.33	42.67	6.67	11.11	% A	92
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	5
ADJUSTMENTS											
Flow	15.94	-0.90	1.32	14.65	-8.68	-6.46	8.59	0.53	2.75		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	70.28
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	65.50
LEQ	63.60	53.89	60.07	62.30	46.10	52.28	56.25	55.31	61.49	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	65.50		EVENING LEQ	62.81		NIGHT LEQ	63.37		Use hour?	no
										GRADE dB	0.00
		CNEL	**70.28**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Little Morongo Road**
Segment: **Pierson Boulevard to 2 Bunch Palms Trail**

	DAYTIME			EVENING			NIGHTTIME			ADT	4599.88
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	268.46	5.24	8.18	199.31	0.87	1.36	49.44	7.28	11.36	% A	92.71
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.85
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	4.44
ADJUSTMENTS											
Flow	16.58	-0.51	1.42	15.29	-8.30	-6.36	9.23	0.91	2.84		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	70.60
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	65.97
LEQ	64.24	54.27	60.16	62.94	46.49	52.38	56.89	55.70	61.59	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	65.97		EVENING LEQ	63.40		NIGHT LEQ	63.62		Use hour?	no
										GRADE dB	0.00
		CNEL	**70.60**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**

Road: **Little Morongo Road**

Segment: **2 Bunch Palms Trail to 15th Ave**

	DAYTIME			EVENING			NIGHTTIME			ADT	7200.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	417.00	8.64	14.40	309.60	1.44	2.40	76.80	12.00	20.00	% A	92
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	5
ADJUSTMENTS											
Flow	18.49	1.66	3.87	17.20	-6.13	-3.91	11.14	3.08	5.30		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	72.84
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	68.05
LEQ	66.15	56.44	62.62	64.85	48.66	54.84	58.80	57.87	64.05	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	68.05		EVENING LEQ	65.36		NIGHT LEQ	65.92		Use hour?	no
										GRADE dB	0.00
		CNEL	**72.84**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Little Morongo Road**
Segment: **2 Bunch Palms Trail to 15th Ave**

	DAYTIME			EVENING			NIGHTTIME			ADT	8299.78
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	484.45	9.45	14.73	359.68	1.57	2.45	89.22	13.12	20.45	% A	92.72
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.85
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	4.44
ADJUSTMENTS											
Flow	19.14	2.04	3.97	17.85	-5.74	-3.81	11.80	3.47	5.40		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	73.15
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	68.53
LEQ	66.80	56.83	62.72	65.51	49.05	54.93	59.45	58.25	64.14	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	68.53		EVENING LEQ	65.96		NIGHT LEQ	66.18		Use hour?	no
										GRADE dB	0.00
		CNEL	**73.15**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**

Road: **Little Morong Road**

Segment: **15th Avenue to Dillon Road**

ADT to match Measured Noise Level due to low traffic volumes

	DAYTIME			EVENING			NIGHTTIME			ADT	4790.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	25.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	293.77	3.59	1.40	217.10	0.64	0.64	54.38	4.79	1.86	% A	97.4
Speed in MPH	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS											
Reference levels	59.44	71.09	77.24	59.44	71.09	77.24	59.44	71.09	77.24	% HT	0.74
ADJUSTMENTS											
Flow	20.39	1.27	-2.83	19.08	-6.24	-6.23	13.07	2.52	-1.58		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	60.90
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	56.42
LEQ	54.76	47.29	49.34	53.45	39.78	45.94	47.44	48.54	50.59	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	56.42		EVENING LEQ	54.32		NIGHT LEQ	53.83		Use hour?	no
										GRADE dB	0.00
		CNEL	**60.90**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Little Morong Road**
Segment: **15th Avenue to Dillon Road**

	DAYTIME			EVENING			NIGHTTIME			ADT	7289.50
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	25.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	447.09	5.47	2.13	330.40	0.97	0.97	82.76	7.29	2.84	% A	97.41
Speed in MPH	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	1.84
NOISE CALCULATIONS											
Reference levels	59.44	71.09	77.24	59.44	71.09	77.24	59.44	71.09	77.24	% HT	0.74
ADJUSTMENTS											
Flow	22.22	3.09	-1.01	20.91	-4.42	-4.40	14.89	4.34	0.24		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	62.73
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	58.25
LEQ	56.59	49.11	51.16	55.28	41.60	47.77	49.26	50.36	52.41	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	58.25		EVENING LEQ	56.14		NIGHT LEQ	55.65		Use hour?	no
										GRADE dB	0.00
		CNEL	**62.73**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**

Road: **Palm Drive**

Segment: **Hacienda Avenue to Ironwood**

	DAYTIME			EVENING			NIGHTTIME			ADT	28200.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	1633.25	33.84	56.40	1212.60	5.64	9.40	300.80	47.00	78.33	% A	92
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	5
ADJUSTMENTS											
Flow	24.42	7.58	9.80	23.13	-0.20	2.02	17.07	9.01	11.23		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	78.76
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	73.98
LEQ	72.08	62.37	68.55	70.78	54.59	60.77	64.73	63.79	69.97	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	73.98		EVENING LEQ	71.29		NIGHT LEQ	71.85		Use hour?	no
										GRADE dB	0.00
		CNEL	**78.76**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Palm Drive**
Segment: **Hacienda Avenue to Ironwood**

	DAYTIME			EVENING			NIGHTTIME			ADT	28599.92
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	1657.78	34.13	56.52	1230.81	5.69	9.42	305.32	47.41	78.50	% A	92.08
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.98
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	4.94
ADJUSTMENTS											
Flow	24.49	7.62	9.81	23.19	-0.16	2.03	17.14	9.05	11.24		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	78.80
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	74.03
LEQ	72.14	62.41	68.56	70.85	54.62	60.78	64.79	63.83	69.98	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	74.03		EVENING LEQ	71.35		NIGHT LEQ	71.87		Use hour?	no
										GRADE dB	0.00
		CNEL	**78.80**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**

Road: **Palm Drive**

Segment: **Pierson Blvd to Hacienda Avenue**

	DAYTIME			EVENING			NIGHTTIME			ADT	28200.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	1633.25	33.84	56.40	1212.60	5.64	9.40	300.80	47.00	78.33	% A	92
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	5
ADJUSTMENTS											
Flow	24.42	7.58	9.80	23.13	-0.20	2.02	17.07	9.01	11.23		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	78.76
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	73.98
LEQ	72.08	62.37	68.55	70.78	54.59	60.77	64.73	63.79	69.97	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	73.98		EVENING LEQ	71.29		NIGHT LEQ	71.85		Use hour?	no
										GRADE dB	0.00
		CNEL	**78.76**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Palm Drive**
Segment: **Pierson Blvd to Hacienda Avenue**

	DAYTIME			EVENING			NIGHTTIME			ADT	28599.92
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	1657.78	34.13	56.52	1230.81	5.69	9.42	305.32	47.41	78.50	% A	92.08
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.98
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	4.94
ADJUSTMENTS											
Flow	24.49	7.62	9.81	23.19	-0.16	2.03	17.14	9.05	11.24		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	78.80
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	74.03
LEQ	72.14	62.41	68.56	70.85	54.62	60.78	64.79	63.83	69.98	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	74.03		EVENING LEQ	71.35		NIGHT LEQ	71.87		Use hour?	no
										GRADE dB	0.00
		CNEL	**78.80**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**

Road: **Palm Drive**

Segment: **Hacienda to Ironwood**

	DAYTIME			EVENING			NIGHTTIME			ADT	28200.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	1633.25	33.84	56.40	1212.60	5.64	9.40	300.80	47.00	78.33	% A	92
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	5
ADJUSTMENTS											
Flow	24.42	7.58	9.80	23.13	-0.20	2.02	17.07	9.01	11.23		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	78.76
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	73.98
LEQ	72.08	62.37	68.55	70.78	54.59	60.77	64.73	63.79	69.97	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	73.98		EVENING LEQ	71.29		NIGHT LEQ	71.85		Use hour?	no
										GRADE dB	0.00
		CNEL	**78.76**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Palm Drive**
Segment: **Hacienda to Ironwood**

	DAYTIME			EVENING			NIGHTTIME			ADT	28799.88
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	1670.04	34.28	56.58	1239.91	5.71	9.43	307.58	47.61	78.58	% A	92.11
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.98
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	4.91
ADJUSTMENTS											
Flow	24.52	7.64	9.82	23.22	-0.14	2.04	17.17	9.07	11.24		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	78.81
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	74.05
LEQ	72.17	62.42	68.56	70.88	54.64	60.78	64.83	63.85	69.99	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	74.05		EVENING LEQ	71.38		NIGHT LEQ	71.89		Use hour?	no
										GRADE dB	0.00
		CNEL	**78.81**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**

Road: **Palm Drive**

Segment: **2 Bunch Palms Trail to Camino Campanero**

	DAYTIME			EVENING			NIGHTTIME			ADT	37400.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	2166.08	44.88	74.80	1608.20	7.48	12.47	398.93	62.33	103.89	% A	92
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	5
ADJUSTMENTS											
Flow	25.65	8.81	11.03	24.35	1.03	3.25	18.30	10.24	12.46		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	79.99
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	75.21
LEQ	73.30	63.59	69.77	72.01	55.81	61.99	65.96	65.02	71.20	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	75.21		EVENING LEQ	72.52		NIGHT LEQ	73.08		Use hour?	no
										GRADE dB	0.00
		CNEL	**79.99**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Palm Drive**
Segment: **2 Bunch Palms Trail to Camino Campanero**

	DAYTIME			EVENING			NIGHTTIME			ADT	37599.96
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	2178.35	45.03	74.86	1617.30	7.50	12.48	401.19	62.54	103.97	% A	92.03
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.99
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	4.98
ADJUSTMENTS											
Flow	25.67	8.83	11.03	24.38	1.04	3.25	18.32	10.25	12.46		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	80.00
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	75.23
LEQ	73.33	63.61	69.78	72.03	55.83	62.00	65.98	65.04	71.20	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	75.23		EVENING LEQ	72.54		NIGHT LEQ	73.09		Use hour?	no
										GRADE dB	0.00
		CNEL	**80.00**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**

Road: **Palm Drive**

Segment: **Camino Campanero to Camino Adventura**

	DAYTIME			EVENING			NIGHTTIME			ADT	37400.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	2166.08	44.88	74.80	1608.20	7.48	12.47	398.93	62.33	103.89	% A	92
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	5
ADJUSTMENTS											
Flow	25.65	8.81	11.03	24.35	1.03	3.25	18.30	10.24	12.46		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	79.99
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	75.21
LEQ	73.30	63.59	69.77	72.01	55.81	61.99	65.96	65.02	71.20	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	75.21		EVENING LEQ	72.52		NIGHT LEQ	73.08		Use hour?	no
										GRADE dB	0.00
		CNEL	**79.99**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Palm Drive**
Segment: **Camino Campanero to Camino Adventura**

	DAYTIME			EVENING			NIGHTTIME			ADT	37699.94
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	2184.48	45.10	74.89	1621.86	7.52	12.48	402.32	62.64	104.01	% A	92.04
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.99
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	4.97
ADJUSTMENTS											
Flow	25.68	8.83	11.03	24.39	1.05	3.25	18.34	10.26	12.46		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	80.01
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	75.24
LEQ	73.34	63.62	69.78	72.05	55.83	62.00	65.99	65.04	71.21	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	75.24		EVENING LEQ	72.55		NIGHT LEQ	73.09		Use hour?	no
										GRADE dB	0.00
		CNEL	**80.01**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**

Road: **Palm Drive**

Segment: **Camino Adventura to Dillon**

	DAYTIME			EVENING			NIGHTTIME			ADT	37400.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	2166.08	44.88	74.80	1608.20	7.48	12.47	398.93	62.33	103.89	% A	92
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	5
ADJUSTMENTS											
Flow	25.65	8.81	11.03	24.35	1.03	3.25	18.30	10.24	12.46		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	79.99
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	75.21
LEQ	73.30	63.59	69.77	72.01	55.81	61.99	65.96	65.02	71.20	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	75.21		EVENING LEQ	72.52		NIGHT LEQ	73.08		Use hour?	no
										GRADE dB	0.00
		CNEL	**79.99**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Palm Drive**
Segment: **Camino Adventura to Dillon**

	DAYTIME			EVENING			NIGHTTIME			ADT	37799.92
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	2190.61	45.17	74.92	1626.41	7.53	12.49	403.45	62.74	104.05	% A	92.06
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.99
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	4.95
ADJUSTMENTS											
Flow	25.70	8.84	11.04	24.40	1.06	3.25	18.35	10.27	12.46		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	80.01
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	75.24
LEQ	73.35	63.62	69.78	72.06	55.84	62.00	66.00	65.05	71.21	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	75.24		EVENING LEQ	72.56		NIGHT LEQ	73.09		Use hour?	no
										GRADE dB	0.00
		CNEL	**80.01**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**

Road: **Palm Drive**

Segment: **Dillon Rd to Varner Rd**

	DAYTIME			EVENING			NIGHTTIME			ADT	34300.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	1986.54	41.16	68.60	1474.90	6.86	11.43	365.87	57.17	95.28	% A	92
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	5
ADJUSTMENTS											
Flow	25.27	8.44	10.65	23.98	0.65	2.87	17.92	9.86	12.08		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	79.61
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	74.83
LEQ	72.93	63.22	69.40	71.63	55.44	61.62	65.58	64.65	70.83	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	74.83		EVENING LEQ	72.14		NIGHT LEQ	72.70		Use hour?	no
										GRADE dB	0.00
		CNEL	**79.61**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Palm Drive**
Segment: **Dillon Rd to Varner Rd**

	DAYTIME			EVENING			NIGHTTIME			ADT	34699.92
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	2011.07	41.45	68.72	1493.11	6.91	11.45	370.38	57.58	95.44	% A	92.06
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.99
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	4.95
ADJUSTMENTS											
Flow	25.32	8.47	10.66	24.03	0.68	2.88	17.98	9.89	12.09		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	79.64
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	74.87
LEQ	72.98	63.25	69.41	71.69	55.47	61.62	65.63	64.68	70.83	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	74.87		EVENING LEQ	72.19		NIGHT LEQ	72.72		Use hour?	no
										GRADE dB	0.00
		CNEL	**79.64**								

FHWA Sound32 Spreadsheet

Existing Traffic Noise

Project: **6627a DHS 109**
Road: **Palm Drive**
Segment: **South of Varner Rd**

	DAYTIME			EVENING			NIGHTTIME			ADT	29900.00
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	1731.71	35.88	59.80	1285.70	5.98	9.97	318.93	49.83	83.06	% A	92
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	3
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	5
ADJUSTMENTS											
Flow	24.68	7.84	10.06	23.38	0.06	2.28	17.33	9.27	11.48		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	79.02
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	74.24
LEQ	72.33	62.62	68.80	71.04	54.84	61.02	64.98	64.05	70.23	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	74.24		EVENING LEQ	71.54		NIGHT LEQ	72.10		Use hour?	no
										GRADE dB	0.00
		CNEL	**79.02**								

FHWA Sound32 Spreadsheet

Existing Plus Project Traffic Noise

Project: **6627a DHS 109**
Road: **Palm Drive**
Segment: **South of Varner Rd**

	DAYTIME			EVENING			NIGHTTIME			ADT	30199.94
	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	AUTOS	M.TRUCKS	H.TRUCKS	SPEED	55.00
										DISTANCE	50.00
INPUT PARAMETERS											
Vehicles per hour	1750.10	36.10	59.89	1299.36	6.02	9.98	322.32	50.14	83.18	% A	92.05
Speed in MPH	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00		
Left angle	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00		
Right angle	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	% MT	2.99
NOISE CALCULATIONS											
Reference levels	72.73	79.85	83.81	72.73	79.85	83.81	72.73	79.85	83.81	% HT	4.96
ADJUSTMENTS											
Flow	24.72	7.87	10.06	23.43	0.08	2.28	17.37	9.29	11.49		
Distance	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	LEFT	-90.00
Finite Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	RIGHT	90.00
Barrier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CNEL	79.04
Constant	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	-25.00	DAY LEQ	74.27
LEQ	72.38	62.65	68.81	71.08	54.87	61.03	65.03	64.08	70.24	Day hour	89.00
										Absorbtive?	no
	DAY LEQ	74.27		EVENING LEQ	71.59		NIGHT LEQ	72.12		Use hour?	no
										GRADE dB	0.00
		CNEL	**79.04**								

APPENDIX F

SOUNDPLAN INPUT AND OUTPUT

Noise emissions of industry sources

Source name	Referer	Level	Frequency spectrum [dB(A)]																											Correctio		
			31	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1	1.3	1.6	2	2.5	3.2	4	5	6.3	8	10	12.5	16	Cwa	CI	CT
		dB(A	Hz	Hz	Hz	Hz	Hz	Hz	Hz	Hz	Hz	Hz	Hz	Hz	Hz	Hz	Hz	kHz	kHz	kHz	kHz	kHz	kHz	kHz	kHz	kHz	kHz	kHz	kHz	kHz	dB	dB	dB
HVAC	Lw/unit	Day 64.3	-2.	4.	19.	26.	22.	35.	38.	38.	41.	42.	46.	48.	51.	56.	58.	55.	55.	54.	49.	47.	43.	44.	43.	45.	41.	37.	35.	31.	-	-	-
		Nigh -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Noise emissions of industry sources

Source name	Referer	Level		Frequency spectrum [dB(A)]																											Correctio		
			dB(A	31 Hz	40 Hz	50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz	315 Hz	400 Hz	500 Hz	630 Hz	800 Hz	1 kHz	1.3 kHz	1.6 kHz	2 kHz	2.5 kHz	3.2 kHz	4 kHz	5 kHz	6.3 kHz	8 kHz	10 kHz	12.5 kHz	16 kHz	Cwa dB	CI dB	CT dB
HVAC		Nigh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Lw/unit	Day	64.3	-2.	4.	19.	26.	22.	35.	38.	38.	41.	42.	46.	48.	51.	56.	58.	55.	55.	54.	49.	47.	43.	44.	43.	45.	41.	37.	35.	31.	-	-	-
		Nigh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Lw/unit	Day	64.3	-2.	4.	19.	26.	22.	35.	38.	38.	41.	42.	46.	48.	51.	56.	58.	55.	55.	54.	49.	47.	43.	44.	43.	45.	41.	37.	35.	31.	-	-	-
		Nigh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Lw/unit	Day	64.3	-2.	4.	19.	26.	22.	35.	38.	38.	41.	42.	46.	48.	51.	56.	58.	55.	55.	54.	49.	47.	43.	44.	43.	45.	41.	37.	35.	31.	-	-	-
		Nigh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Lw/unit	Day	64.3	-2.	4.	19.	26.	22.	35.	38.	38.	41.	42.	46.	48.	51.	56.	58.	55.	55.	54.	49.	47.	43.	44.	43.	45.	41.	37.	35.	31.	-	-	-
		Nigh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Lw/unit	Day	64.3	-2.	4.	19.	26.	22.	35.	38.	38.	41.	42.	46.	48.	51.	56.	58.	55.	55.	54.	49.	47.	43.	44.	43.	45.	41.	37.	35.	31.	-	-	-
		Nigh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Lw/unit	Day	64.3	-2.	4.	19.	26.	22.	35.	38.	38.	41.	42.	46.	48.	51.	56.	58.	55.	55.	54.	49.	47.	43.	44.	43.	45.	41.	37.	35.	31.	-	-	-
		Nigh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Lw/unit	Day	64.3	-2.	4.	19.	26.	22.	35.	38.	38.	41.	42.	46.	48.	51.	56.	58.	55.	55.	54.	49.	47.	43.	44.	43.	45.	41.	37.	35.	31.	-	-	-
		Nigh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Lw/unit	Day	64.3	-2.	4.	19.	26.	22.	35.	38.	38.	41.	42.	46.	48.	51.	56.	58.	55.	55.	54.	49.	47.	43.	44.	43.	45.	41.	37.	35.	31.	-	-	-
		Nigh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Lw/unit	Day	64.3	-2.	4.	19.	26.	22.	35.	38.	38.	41.	42.	46.	48.	51.	56.	58.	55.	55.	54.	49.	47.	43.	44.	43.	45.	41.	37.	35.	31.	-	-	-
		Nigh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Parking/Loading/U	Lw/unit	Day	104.	-	-	-	71.	74.	78.	81.	83.	85.	88.	90.	92.	94.	95.	96.	97.	97.	97.	98.	98.	98.	98.	97.	97.	96.	-	-	-	-	-	-
		Nigh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Power Plant Nois	Lw/unit	Day	65.0	-	-	-	32.	36.	47.	50.	52.	56.	59.	61.	56.	58.	59.	55.	56.	57.	57.	57.	57.	55.	55.	54.	52.	51.	-	-	-	-	-	-
		Nigh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Lw/unit	Day	65.0	-	-	-	32.	36.	47.	50.	52.	56.	59.	61.	56.	58.	59.	55.	56.	57.	57.	57.	57.	55.	55.	54.	52.	51.	-	-	-	3.0	-	-
		Nigh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0	-	-
	Lw/unit	Day	65.0	-	-	-	32.	36.	47.	50.	52.	56.	59.	61.	56.	58.	59.	55.	56.	57.	57.	57.	57.	55.	55.	54.	52.	51.	-	-	-	3.0	-	-
		Nigh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0	-	-
	Lw/unit	Day	65.0	-	-	-	32.	36.	47.	50.	52.	56.	59.	61.	56.	58.	59.	55.	56.	57.	57.	57.	57.	55.	55.	54.	52.	51.	-	-	-	3.0	-	-
		Nigh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0	-	-
	Lw/unit	Day	65.0	-	-	-	32.	36.	47.	50.	52.	56.	59.	61.	56.	58.	59.	55.	56.	57.	57.	57.	57.	55.	55.	54.	52.	51.	-	-	-	3.0	-	-
		Nigh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0	-	-
	Lw/unit	Day	65.0	-	-	-	32.	36.	47.	50.	52.	56.	59.	61.	56.	58.	59.	55.	56.	57.	57.	57.	57.	55.	55.	54.	52.	51.	-	-	-	-	-	-
		Nigh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Lw/unit	Day	65.0	-	-	-	32.	36.	47.	50.	52.	56.	59.	61.	56.	58.	59.	55.	56.	57.	57.	57.	57.	55.	55.	54.	52.	51.	-	-	-	3.0	-	-
		Nigh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0	-	-
	Lw/unit	Day	65.0	-	-	-	32.	36.	47.	50.	52.	56.	59.	61.	56.	58.	59.	55.	56.	57.	57.	57.	57.	55.	55.	54.	52.	51.	-	-	-	3.0	-	-
		Nigh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0	-	-
	Lw/unit	Day	65.0	-	-	-	32.	36.	47.	50.	52.	56.	59.	61.	56.	58.	59.	55.	56.	57.	57.	57.	57.	55.	55.	54.	52.	51.	-	-	-	3.0	-	-
		Nigh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0	-	-

Receiver list

No.	Receiver name	Building side	Floor	Limit		Level		Conflict	
				Day	Night	Day	Night	Day	Night
				dB(A)		dB(A)		dB	
1	1	-	GF	-	-	33.5	0.0	-	-
2	2	-	GF	-	-	30.3	0.0	-	-
3	3	-	GF	-	-	40.0	0.0	-	-
4	4	-	GF	-	-	33.4	0.0	-	-
5	5	-	GF	-	-	43.1	0.0	-	-
6	6	-	GF	-	-	49.5	0.0	-	-
7	7	-	GF	-	-	50.9	0.0	-	-
8	8	-	GF	-	-	47.9	0.0	-	-
9	9	-	GF	-	-	47.3	0.0	-	-
10	10	-	GF	-	-	52.8	0.0	-	-

Contribution levels of the receivers

Source name				Level Day	Level Night
				dB(A)	
1	GF	33.5	0.0		
HVAC				-8.0	-
HVAC				-7.9	-
HVAC				-8.2	-
HVAC				-9.8	-
HVAC				-10.1	-
HVAC				-7.9	-
HVAC				-4.7	-
HVAC				-7.9	-
HVAC				-6.3	-
HVAC				-7.5	-
HVAC				-6.4	-
HVAC				-11.5	-
HVAC				-8.1	-
HVAC				-14.5	-
HVAC				-9.8	-
HVAC				-5.9	-
HVAC				-8.3	-
HVAC				-10.0	-
HVAC				-7.9	-
HVAC				-6.2	-
HVAC				-7.8	-
HVAC				-8.1	-
HVAC				-4.7	-
HVAC				-10.6	-
HVAC				-1.0	-
HVAC				-15.7	-
HVAC				-0.8	-
HVAC				-0.8	-
HVAC				-3.9	-
HVAC				-4.4	-
HVAC				-3.8	-
HVAC				-4.9	-
HVAC				-4.4	-
HVAC				-5.3	-
HVAC				-4.9	-
HVAC				-4.3	-
HVAC				-5.4	-
HVAC				-4.6	-
HVAC				-4.5	-
HVAC				-4.9	-
HVAC				-5.3	-
HVAC				-5.2	-
Parking/Loading/Unloading				33.5	-
Power Plant Noise				4.9	-
Power Plant Noise				-10.0	-
Power Plant Noise				4.8	-
Power Plant Noise				-11.4	-
Power Plant Noise				-15.5	-
Power Plant Noise				-8.5	-
Power Plant Noise				-3.6	-
Power Plant Noise				5.5	-
Power Plant Noise				-15.3	-
Power Plant Noise				5.4	-
2	GF	30.3	0.0		
HVAC				-7.5	-
HVAC				-7.7	-
HVAC				-7.2	-
HVAC				-5.5	-
HVAC				-6.3	-
HVAC				-8.5	-
HVAC				-2.2	-
HVAC				-7.9	-

Contribution levels of the receivers

Source name	Level Day	Night
	dB(A)	
HVAC	-7.1	-
HVAC	-5.3	-
HVAC	-7.2	-
HVAC	-5.9	-
HVAC	-6.5	-
HVAC	-3.1	-
HVAC	-12.4	-
HVAC	-15.0	-
HVAC	-7.5	-
HVAC	-10.3	-
HVAC	-8.2	-
HVAC	-8.5	-
HVAC	-7.9	-
HVAC	-7.3	-
HVAC	-8.5	-
HVAC	-6.6	-
HVAC	-4.4	-
HVAC	-13.4	-
HVAC	-5.3	-
HVAC	-5.0	-
HVAC	-15.9	-
HVAC	-11.5	-
HVAC	-7.5	-
HVAC	-9.8	-
HVAC	-8.0	-
HVAC	-8.9	-
HVAC	-7.9	-
HVAC	-7.3	-
HVAC	-8.9	-
HVAC	-7.0	-
HVAC	-7.2	-
HVAC	-6.7	-
HVAC	-6.5	-
HVAC	-6.6	-
Parking/Loading/Unloading	30.2	-
Power Plant Noise	3.5	-
Power Plant Noise	-11.8	-
Power Plant Noise	-12.1	-
Power Plant Noise	3.5	-
Power Plant Noise	-16.8	-
Power Plant Noise	2.9	-
Power Plant Noise	-6.2	-
Power Plant Noise	2.9	-
Power Plant Noise	-17.1	-
Power Plant Noise	-13.9	-
3 GF 40.0 0.0		
HVAC	6.4	-
HVAC	6.9	-
HVAC	5.7	-
HVAC	2.7	-
HVAC	4.1	-
HVAC	9.3	-
HVAC	2.0	-
HVAC	6.4	-
HVAC	3.4	-
HVAC	5.0	-
HVAC	2.8	-
HVAC	1.8	-
HVAC	1.8	-
HVAC	1.4	-
HVAC	0.4	-
HVAC	0.1	-
HVAC	1.4	-
HVAC	0.8	-

Contribution levels of the receivers

Source name	Level Day	Night
	dB(A)	
HVAC	1.7	-
HVAC	0.3	-
HVAC	1.8	-
HVAC	-0.5	-
HVAC	-0.2	-
HVAC	-0.7	-
HVAC	-3.0	-
HVAC	-1.2	-
HVAC	-3.7	-
HVAC	-3.4	-
HVAC	-2.1	-
HVAC	-1.7	-
HVAC	-3.2	-
HVAC	-1.5	-
HVAC	-2.9	-
HVAC	-1.3	-
HVAC	-2.6	-
HVAC	-3.6	-
HVAC	-2.5	-
HVAC	-2.8	-
HVAC	-3.2	-
HVAC	-2.0	-
HVAC	-1.3	-
HVAC	-1.6	-
Parking/Loading/Unloading	40.0	-
Power Plant Noise	-13.2	-
Power Plant Noise	-7.7	-
Power Plant Noise	-5.0	-
Power Plant Noise	4.7	-
Power Plant Noise	3.9	-
Power Plant Noise	2.0	-
Power Plant Noise	-2.5	-
Power Plant Noise	-14.5	-
Power Plant Noise	1.3	-
Power Plant Noise	-14.6	-
4 GF 33.4 0.0		
HVAC	-5.8	-
HVAC	-3.1	-
HVAC	-6.1	-
HVAC	-6.7	-
HVAC	-6.9	-
HVAC	-0.8	-
HVAC	-6.9	-
HVAC	-0.5	-
HVAC	-4.8	-
HVAC	-2.1	-
HVAC	-5.1	-
HVAC	-5.8	-
HVAC	-6.4	-
HVAC	-6.1	-
HVAC	-5.9	-
HVAC	-5.6	-
HVAC	-4.6	-
HVAC	-2.9	-
HVAC	-4.2	-
HVAC	0.2	-
HVAC	-1.2	-
HVAC	-5.1	-
HVAC	-4.9	-
HVAC	-5.7	-
HVAC	-5.1	-
HVAC	-6.4	-
HVAC	-6.0	-
HVAC	-6.6	-

Contribution levels of the receivers

Source name	Level Day	Night
	dB(A)	
HVAC	-6.2	-
HVAC	-5.6	-
HVAC	-6.2	-
HVAC	-4.9	-
HVAC	-5.3	-
HVAC	-2.2	-
HVAC	-4.6	-
HVAC	-8.5	-
HVAC	-0.5	-
HVAC	-8.6	-
HVAC	-8.6	-
HVAC	-8.8	-
HVAC	-9.0	-
HVAC	-8.9	-
Parking/Loading/Unloading	33.3	-
Power Plant Noise	-19.3	-
Power Plant Noise	-12.3	-
Power Plant Noise	-2.3	-
Power Plant Noise	-15.6	-
Power Plant Noise	-2.1	-
Power Plant Noise	-12.8	-
Power Plant Noise	-7.5	-
Power Plant Noise	-19.2	-
Power Plant Noise	-1.3	-
Power Plant Noise	-1.5	-
5 GF 43.1 0.0		
HVAC	-3.2	-
HVAC	-3.4	-
HVAC	-3.1	-
HVAC	-2.5	-
HVAC	-2.7	-
HVAC	-4.0	-
HVAC	-2.2	-
HVAC	-3.0	-
HVAC	-2.2	-
HVAC	-2.5	-
HVAC	-1.9	-
HVAC	-1.2	-
HVAC	-1.3	-
HVAC	-0.7	-
HVAC	-0.2	-
HVAC	-0.1	-
HVAC	-1.1	-
HVAC	-0.5	-
HVAC	-1.4	-
HVAC	-0.3	-
HVAC	-1.7	-
HVAC	0.8	-
HVAC	0.4	-
HVAC	3.8	-
HVAC	5.8	-
HVAC	2.7	-
HVAC	9.2	-
HVAC	5.4	-
HVAC	4.0	-
HVAC	2.5	-
HVAC	6.5	-
HVAC	4.2	-
HVAC	5.0	-
HVAC	1.6	-
HVAC	4.2	-
HVAC	2.2	-
HVAC	3.3	-
HVAC	0.2	-

Contribution levels of the receivers

Source name	Level Day	Night
	dB(A)	
HVAC	1.1	-
HVAC	-1.5	-
HVAC	-2.6	-
HVAC	-2.0	-
Parking/Loading/Unloading	43.1	-
Power Plant Noise	7.5	-
Power Plant Noise	-9.7	-
Power Plant Noise	-2.9	-
Power Plant Noise	-12.4	-
Power Plant Noise	-12.7	-
Power Plant Noise	-6.7	-
Power Plant Noise	1.9	-
Power Plant Noise	10.5	-
Power Plant Noise	-1.5	-
Power Plant Noise	8.8	-
6 GF 49.5 0.0		
HVAC	-15.8	-
HVAC	-16.8	-
HVAC	-14.2	-
HVAC	-9.7	-
HVAC	-13.4	-
HVAC	-18.2	-
HVAC	-10.8	-
HVAC	-18.2	-
HVAC	-15.8	-
HVAC	-16.8	-
HVAC	-14.6	-
HVAC	3.4	-
HVAC	-7.3	-
HVAC	2.5	-
HVAC	-12.0	-
HVAC	-4.3	-
HVAC	-15.8	-
HVAC	-13.4	-
HVAC	-13.4	-
HVAC	-16.3	-
HVAC	-17.1	-
HVAC	-13.1	-
HVAC	-14.2	-
HVAC	-11.9	-
HVAC	12.3	-
HVAC	7.1	-
HVAC	8.4	-
HVAC	9.8	-
HVAC	-7.4	-
HVAC	2.6	-
HVAC	-12.7	-
HVAC	1.8	-
HVAC	-9.0	-
HVAC	1.1	-
HVAC	-9.7	-
HVAC	2.5	-
HVAC	-0.1	-
HVAC	3.6	-
HVAC	3.4	-
HVAC	6.9	-
HVAC	0.2	-
HVAC	1.7	-
Parking/Loading/Unloading	49.4	-
Power Plant Noise	21.0	-
Power Plant Noise	-0.1	-
Power Plant Noise	22.7	-
Power Plant Noise	-2.7	-
Power Plant Noise	1.0	-

Contribution levels of the receivers

Source name				Level Day	Level Night
				dB(A)	
Power Plant Noise				16.9	-
Power Plant Noise				10.2	-
Power Plant Noise				29.0	-
Power Plant Noise				-0.2	-
Power Plant Noise				11.8	-
7	GF	50.9	0.0		
HVAC				13.2	-
HVAC				12.4	-
HVAC				14.4	-
HVAC				12.9	-
HVAC				15.3	-
HVAC				9.1	-
HVAC				11.2	-
HVAC				2.8	-
HVAC				5.5	-
HVAC				3.7	-
HVAC				14.1	-
HVAC				6.0	-
HVAC				12.4	-
HVAC				3.7	-
HVAC				7.9	-
HVAC				3.8	-
HVAC				9.0	-
HVAC				9.7	-
HVAC				6.8	-
HVAC				4.3	-
HVAC				1.4	-
HVAC				6.9	-
HVAC				6.0	-
HVAC				5.8	-
HVAC				-16.6	-
HVAC				3.7	-
HVAC				0.5	-
HVAC				0.9	-
HVAC				2.8	-
HVAC				2.6	-
HVAC				1.6	-
HVAC				2.6	-
HVAC				0.1	-
HVAC				2.6	-
HVAC				0.1	-
HVAC				-6.4	-
HVAC				0.2	-
HVAC				-5.1	-
HVAC				-6.2	-
HVAC				-2.3	-
HVAC				0.1	-
HVAC				-0.9	-
Parking/Loading/Unloading				50.8	-
Power Plant Noise				-9.3	-
Power Plant Noise				-6.4	-
Power Plant Noise				-1.4	-
Power Plant Noise				8.1	-
Power Plant Noise				6.5	-
Power Plant Noise				1.7	-
Power Plant Noise				-3.4	-
Power Plant Noise				-12.4	-
Power Plant Noise				2.5	-
Power Plant Noise				-12.6	-
8	GF	47.9	0.0		
HVAC				6.8	-
HVAC				6.6	-
HVAC				5.9	-

Contribution levels of the receivers

Source name	Level Day	Night
	dB(A)	
HVAC	2.5	-
HVAC	3.3	-
HVAC	10.1	-
HVAC	1.9	-
HVAC	14.6	-
HVAC	9.4	-
HVAC	10.8	-
HVAC	8.2	-
HVAC	3.2	-
HVAC	4.4	-
HVAC	2.1	-
HVAC	3.7	-
HVAC	2.6	-
HVAC	9.8	-
HVAC	4.7	-
HVAC	10.8	-
HVAC	14.5	-
HVAC	13.6	-
HVAC	5.9	-
HVAC	7.5	-
HVAC	5.5	-
HVAC	0.8	-
HVAC	5.3	-
HVAC	0.1	-
HVAC	0.9	-
HVAC	2.1	-
HVAC	4.8	-
HVAC	1.5	-
HVAC	5.9	-
HVAC	2.7	-
HVAC	6.4	-
HVAC	4.0	-
HVAC	0.4	-
HVAC	6.0	-
HVAC	0.6	-
HVAC	0.6	-
HVAC	-1.1	-
HVAC	-1.2	-
HVAC	-1.1	-
Parking/Loading/Unloading	47.9	-
Power Plant Noise	-13.0	-
Power Plant Noise	-10.0	-
Power Plant Noise	5.1	-
Power Plant Noise	-11.2	-
Power Plant Noise	3.9	-
Power Plant Noise	9.7	-
Power Plant Noise	1.1	-
Power Plant Noise	-11.5	-
Power Plant Noise	8.0	-
Power Plant Noise	-7.9	-
9 GF 47.3 0.0		
HVAC	2.6	-
HVAC	2.6	-
HVAC	3.4	-
HVAC	10.3	-
HVAC	6.7	-
HVAC	1.1	-
HVAC	12.7	-
HVAC	1.2	-
HVAC	4.8	-
HVAC	2.3	-
HVAC	4.1	-
HVAC	7.7	-
HVAC	6.3	-

Contribution levels of the receivers

Source name	Level Day	Night
	dB(A)	
HVAC	9.6	-
HVAC	-2.7	-
HVAC	-6.2	-
HVAC	2.9	-
HVAC	-9.4	-
HVAC	2.0	-
HVAC	-13.1	-
HVAC	1.5	-
HVAC	-14.8	-
HVAC	-14.6	-
HVAC	-14.3	-
HVAC	-10.8	-
HVAC	-11.5	-
HVAC	-9.0	-
HVAC	-7.6	-
HVAC	-11.9	-
HVAC	-15.8	-
HVAC	-15.0	-
HVAC	-16.7	-
HVAC	-16.6	-
HVAC	-16.8	-
HVAC	-16.0	-
HVAC	-2.6	-
HVAC	-18.0	-
HVAC	-1.8	-
HVAC	-2.2	-
HVAC	-0.1	-
HVAC	5.5	-
HVAC	0.6	-
Parking/Loading/Unloading	47.3	-
Power Plant Noise	23.3	-
Power Plant Noise	3.8	-
Power Plant Noise	8.1	-
Power Plant Noise	25.1	-
Power Plant Noise	4.8	-
Power Plant Noise	10.2	-
Power Plant Noise	2.5	-
Power Plant Noise	15.1	-
Power Plant Noise	-8.9	-
Power Plant Noise	-7.5	-
10 GF 52.8 0.0		
HVAC	-1.5	-
HVAC	-1.2	-
HVAC	-1.5	-
HVAC	1.1	-
HVAC	1.0	-
HVAC	-1.1	-
HVAC	-1.4	-
HVAC	-0.5	-
HVAC	0.1	-
HVAC	0.4	-
HVAC	-0.3	-
HVAC	2.3	-
HVAC	-0.2	-
HVAC	2.4	-
HVAC	0.9	-
HVAC	3.5	-
HVAC	1.7	-
HVAC	0.8	-
HVAC	1.7	-
HVAC	3.0	-
HVAC	0.8	-
HVAC	4.7	-
HVAC	4.7	-

Contribution levels of the receivers

Source name	Level Day	Night
	dB(A)	
HVAC	3.4	-
HVAC	6.1	-
HVAC	3.8	-
HVAC	8.2	-
HVAC	7.2	-
HVAC	9.8	-
HVAC	9.9	-
HVAC	12.3	-
HVAC	9.0	-
HVAC	14.2	-
HVAC	6.5	-
HVAC	14.3	-
HVAC	3.8	-
HVAC	14.4	-
HVAC	1.7	-
HVAC	2.2	-
HVAC	0.5	-
HVAC	-3.2	-
HVAC	0.2	-
Parking/Loading/Unloading	52.8	-
Power Plant Noise	-12.7	-
Power Plant Noise	-7.8	-
Power Plant Noise	2.2	-
Power Plant Noise	-13.7	-
Power Plant Noise	4.5	-
Power Plant Noise	-0.7	-
Power Plant Noise	3.6	-
Power Plant Noise	-8.7	-
Power Plant Noise	8.6	-
Power Plant Noise	8.0	-

DHS 109 Equipment information Sound Power Data

Description - Type	Equip #	U/M	Located	SP Data	Dist	U/M	Enclosure		Power PlanT Location
Absorption chiller	12	EA	Indoors	85dBA	1	M	☐Yes	☒No	Main equipment floor
Cooling tower fan	32	EA	Indoors	72dBA	15	M	☒Yes	☐No	Shrouded above main equip floor
Caterpillar Mars 100 Turbine	6	EA	Indoors	106 dBA	15	M	☒Yes	☐No	Main equipment floor
Pump Skids 1000 Hp	4	EA	Indoors	125 dBA	1	M	☐Yes	☒No	Below grade in piping gallery
Pump Skids 500 Hp	12	EA	Indoors	90 dBA	1	M	☐Yes	☒No	Below grade in piping gallery
Digesters	10	EA	Indoors	N/A	0	M	☐Yes	☒No	Main equipment floor
3000Hp Boilers	6	EA	Indoors	80dBA	1	M	☐Yes	☒No	Main equipment floor
CO2 Amine Beds	6	EA	Indoors	80dBA	1	M	☒Yes	☐No	Main equipment floor

**** See attached Energy Reclamation Plant floor plan and building sections****

60MW ENERGY AND RECYCLING FACILITY
GBA 95,410 SF; HT:55FT ; SITE AREA:4.78 ACRES
SUBSTSATION AND DISTRIBUTION PUMPING ARE SEPERATE BLDS

NG TURBINE GENERATOR WASTE HEAT PRODUCTION AND CO2 RECOVERY UNIT

WASTE HEAT RECOVERY STEP 1 ABSORPTION CHILLER COLD WATER PRODUCTION

WASTE HEAT RECOVERY STEP 2 BIODIGESTER HEATING BIO-GAS PRODUCTION

WASTE HEAT REJECTION STEP 3 COOLING TOWER LOW GRADE HEAT IS REJECTED

S

N

E

10 MW Turbine Generator 20'X60'X22'	CO2 GEN HRM	12.5kV/34.5kV Distribution	3000 Ton Absorption Chiller 25X50X22	3000 Ton Absorption Chiller 25X50X22	BioDigester 36FT Dia X 50Ft Ht	BioDigester 36FT Dia X 50Ft Ht
10 MW Turbine Generator 20'X60'X22'	CO2 GEN HRM	12.5kV/34.5kV Distribution	3000 Ton Absorption Chiller 25X50X22	3000 Ton Absorption Chiller 25X50X22	BioDigester 36FT Dia X 50Ft Ht	BioDigester 36FT Dia X 50Ft Ht
10 MW Turbine Generator 20'X60'X22'	CO2 GEN HRM	12.5kV/34.5kV Distribution	3000 Ton Absorption Chiller 25X50X22	3000 Ton Absorption Chiller 25X50X22	BioDigester 36FT Dia X 50Ft Ht	BioDigester 36FT Dia X 50Ft Ht
10 MW Turbine Generator 20'X60'X22'	CO2 GEN HRM	12.5kV/34.5kV Distribution	3000 Ton Absorption Chiller 25X50X22	3000 Ton Absorption Chiller 25X50X22	BioDigester 36FT Dia X 50Ft Ht	BioDigester 36FT Dia X 50Ft Ht
10 MW Turbine Generator 20'X60'X22'	CO2 GEN HRM	12.5kV/34.5kV Distribution	3000 Ton Absorption Chiller 25X50X22	3000 Ton Absorption Chiller 25X50X22	BioDigester 36FT Dia X 50Ft Ht	BioDigester 36FT Dia X 50Ft Ht
10 MW Turbine Generator 20'X60'X22'	CO2 GEN HRM	12.5kV/34.5kV Distribution	3000 Ton Absorption Chiller 25X50X22	3000 Ton Absorption Chiller 25X50X22	BioDigester 36FT Dia X 50Ft Ht	BioDigester 36FT Dia X 50Ft Ht

2000 ton Cooling Tower 17'X51'	2000 ton Cooling Tower 17'X51'
2000 ton Cooling Tower 17'X51'	2000 ton Cooling Tower 17'X51'
2000 ton Cooling Tower 17'X51'	2000 ton Cooling Tower 17'X51'
2000 ton Cooling Tower 17'X51'	2000 ton Cooling Tower 17'X51'
2000 ton Cooling Tower 17'X51'	2000 ton Cooling Tower 17'X51'
2000 ton Cooling Tower 17'X51'	2000 ton Cooling Tower 17'X51'

GHG RECOVERY & RECYCLING ELECTRICAL POWER, HOT WATER, CO2 PRODUCTON AND DISTRUIBUTION

WASTE HEAT REUSED FOR CHILLED WATER PRODUCTION AND DISTRIBUTION

ORGANIC WASTE RECYCLING BIO-GAS FUEL PRODUCTION AND DISTRIBUTION

FINAL PROCESS LOW GRADE WASTE HEAT REJECTION WATER RECLAIMED FROM CULTIVATION WASTE TO DRAIN

224.83 ft

27.49 ft

109.95 ft

T.O.P. 44'-0"

1 A320B

NORTH: VARIES PER BUILDING LOCATION

0' 8' 16' 32' 64'

SYNERGY

THE PREMIERE MASTER PLAN RESEARCH / INDUSTRIAL CAMPUS

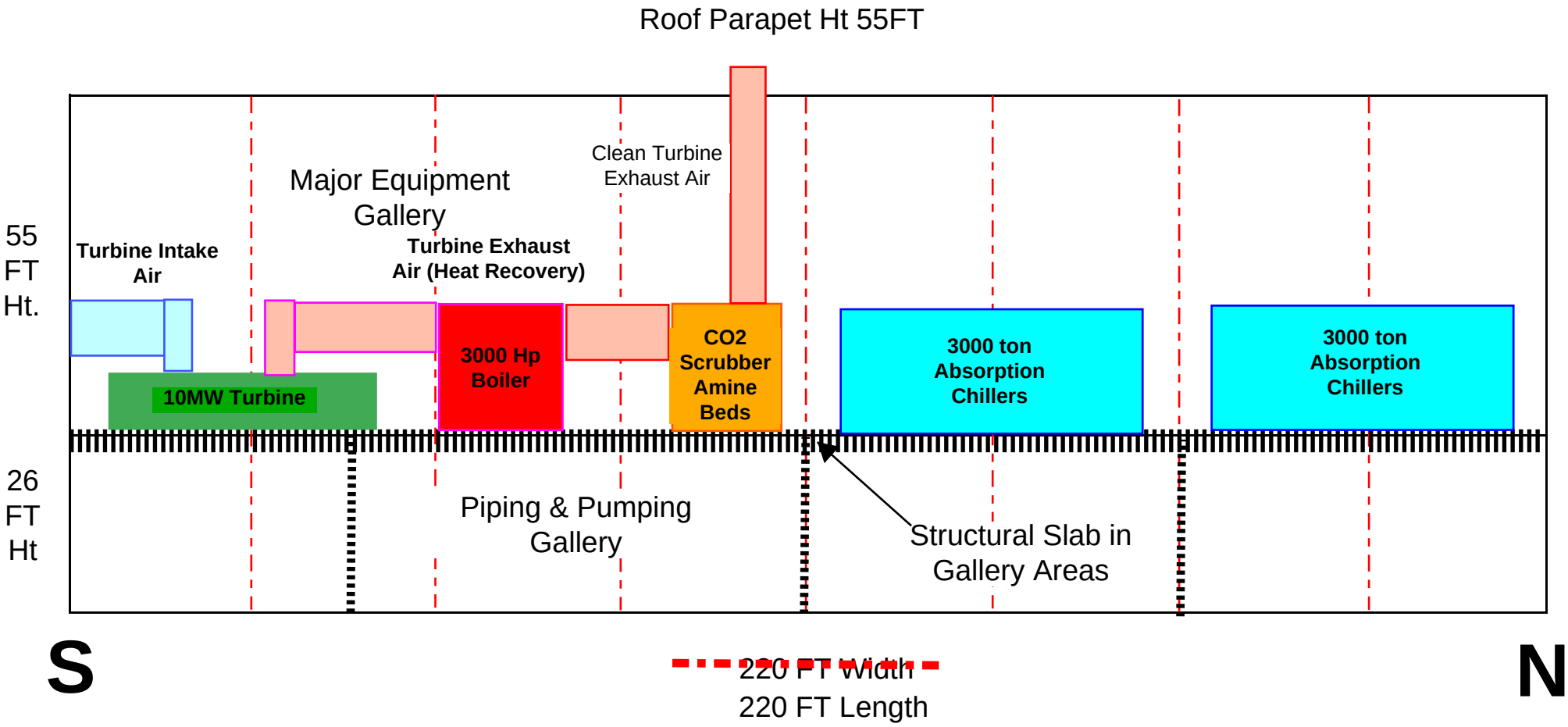
DESERT HOT SPRINGS, CA

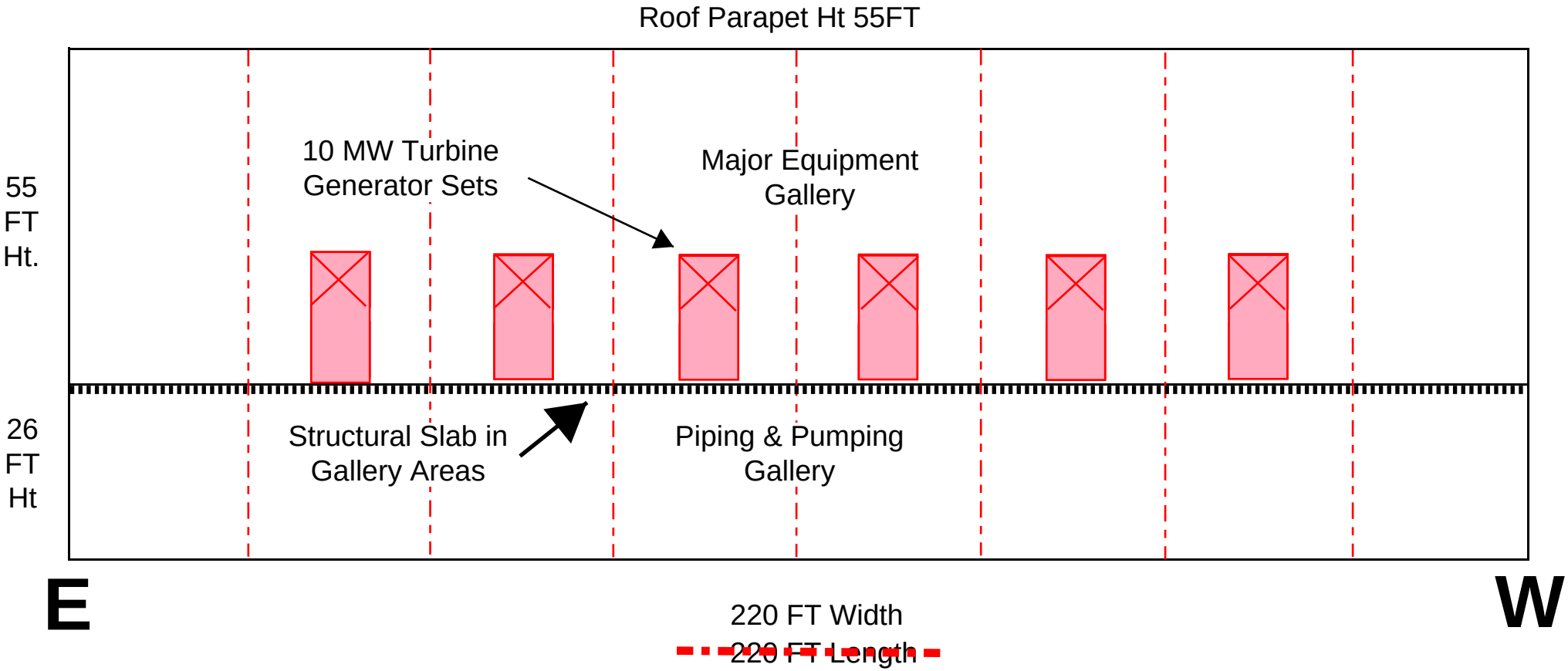
PREST · VUKSIC ARCHITECTS
44-530 SAN PABLO AVE. STE PALM DESERT, CA
T: 760.779.5393 F: 760.779.5395

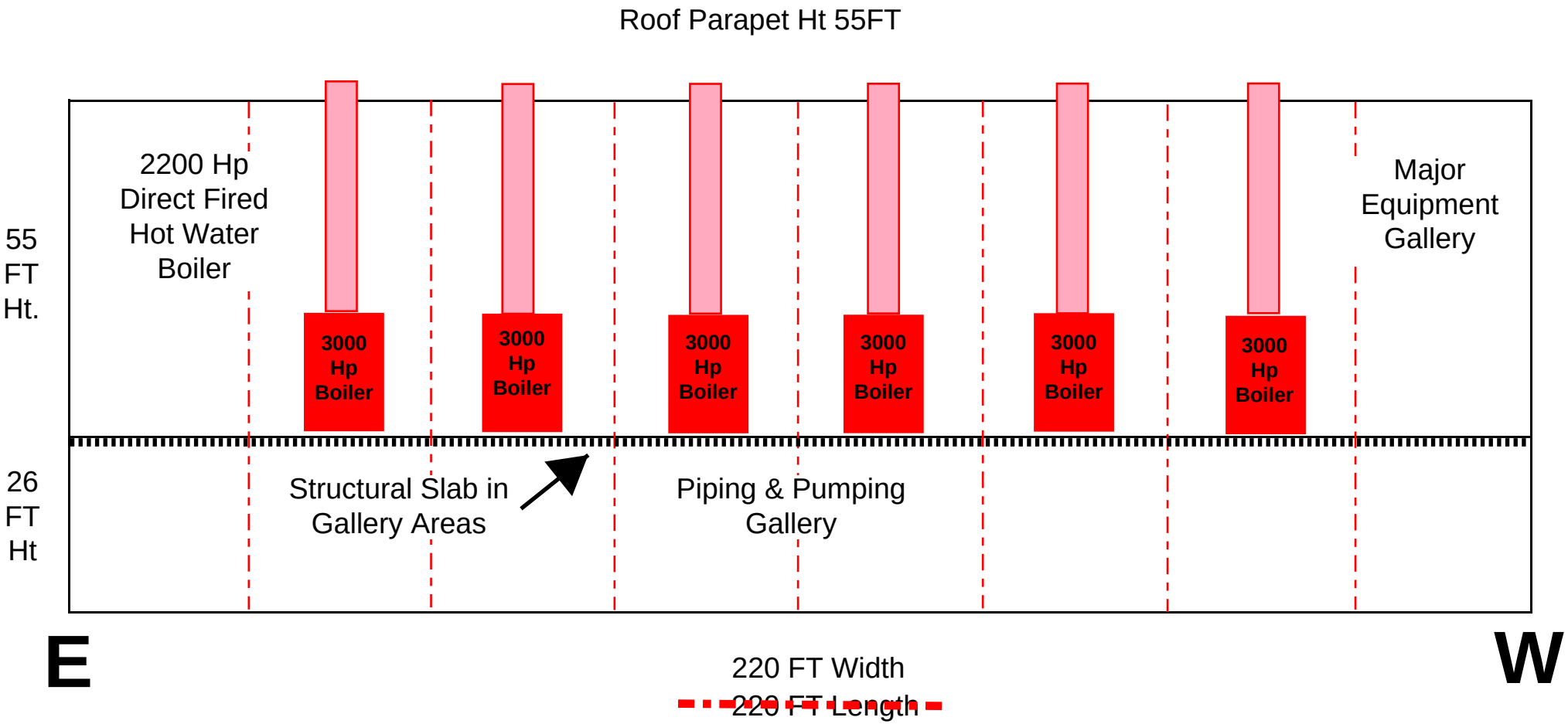
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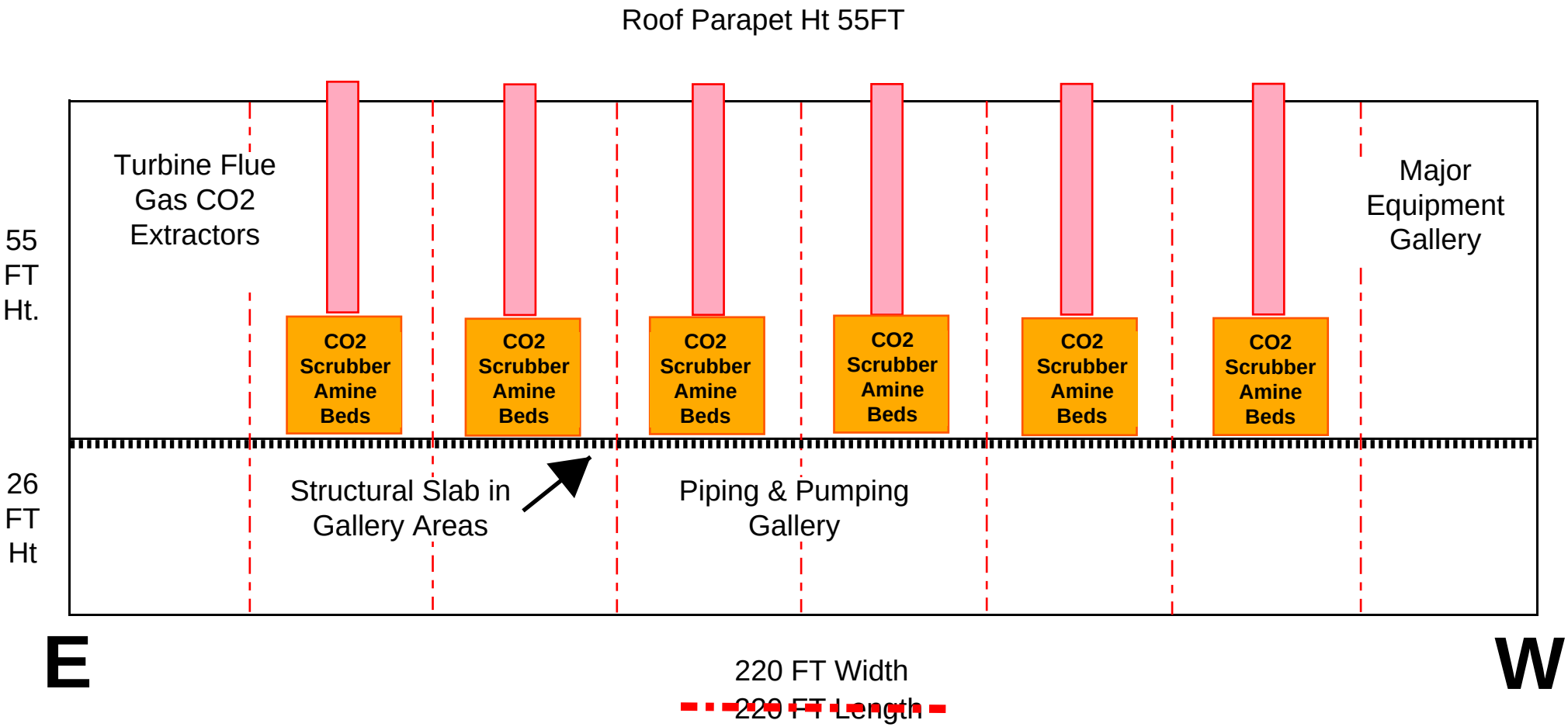
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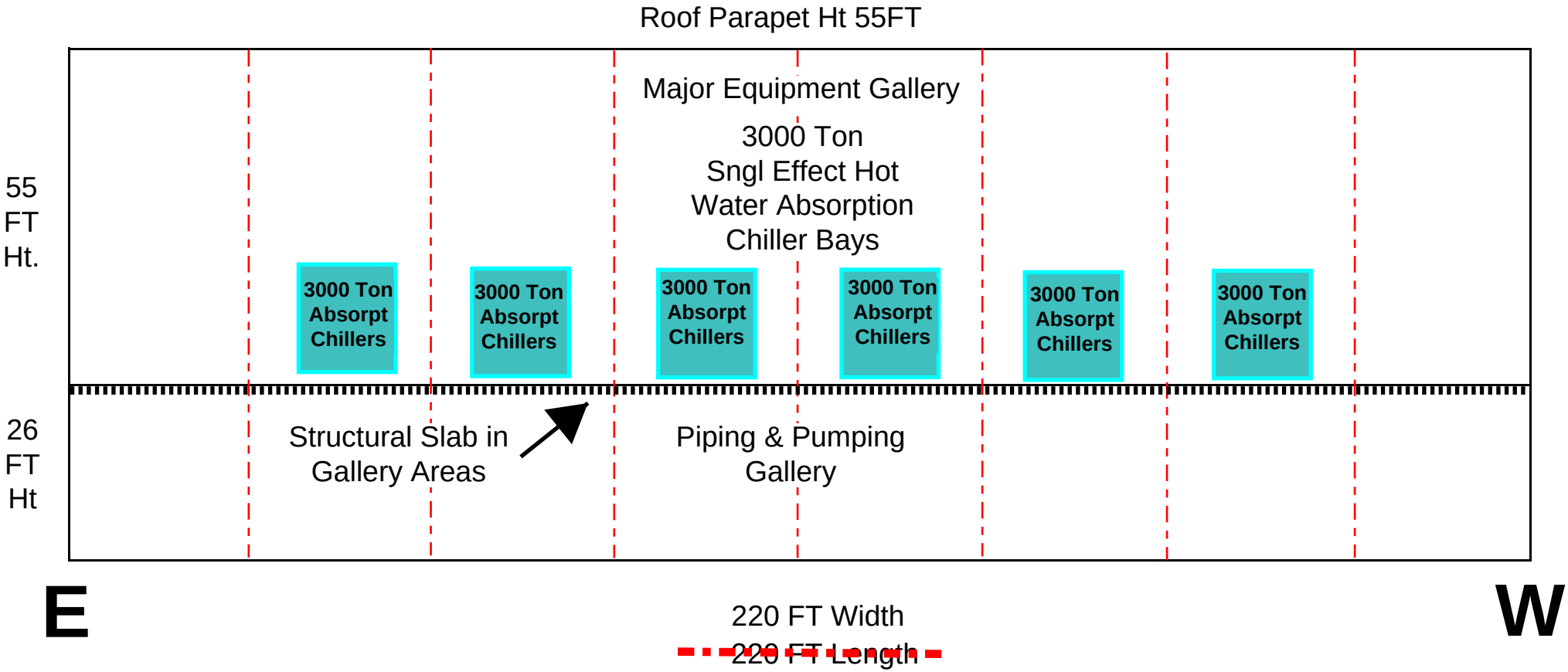
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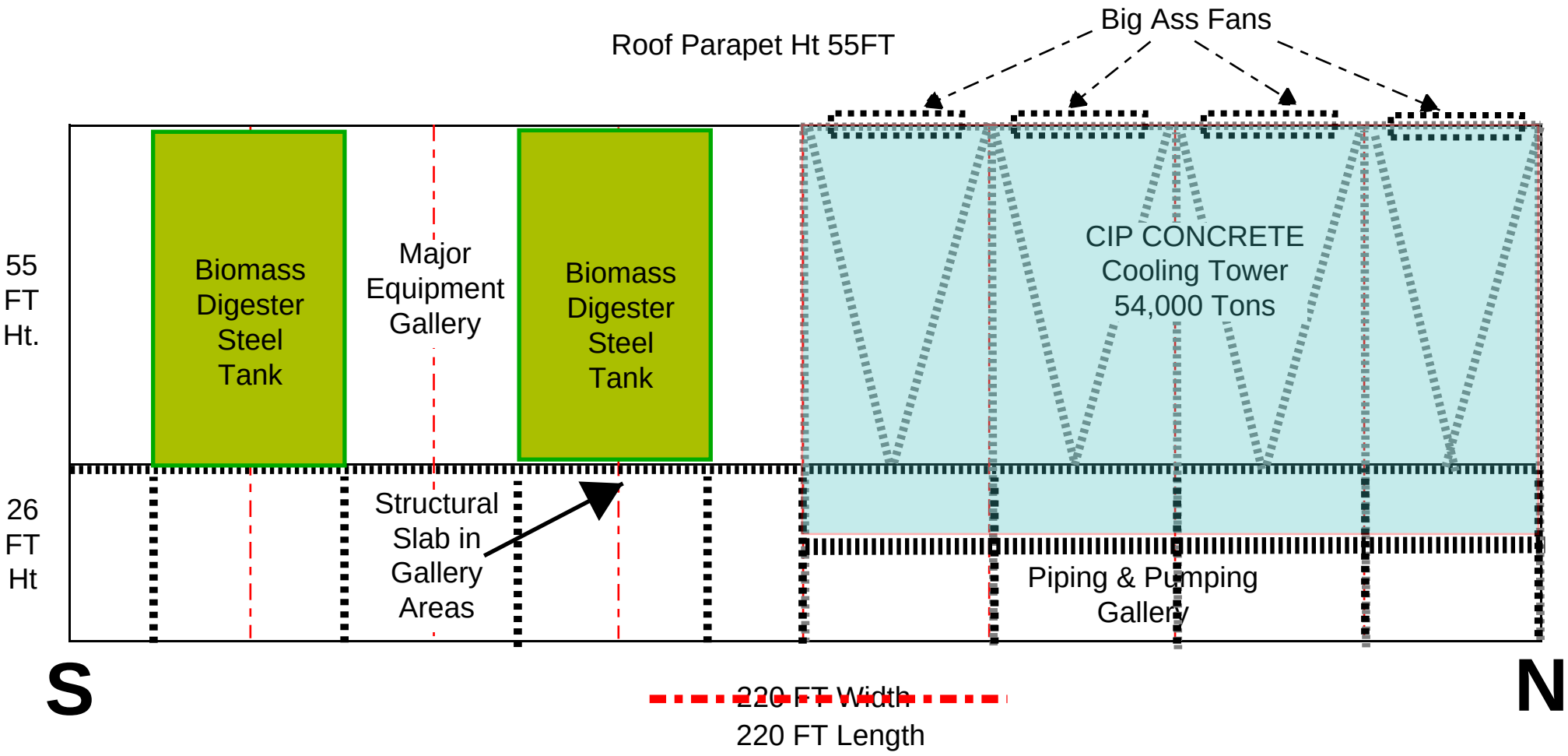

Roof Parapet Ht 55FT
55 FT Ht.
26 FT Ht
Major Equipment Gallery
Clean Turbine Exhaust Air
Turbine Intake Air
Turbine Exhaust Air (Heat Recovery)
10MW Turbine
3000 Hp Boiler
CO2 Scrubber Amine Beds
3000 ton Absorption Chillers
3000 ton Absorption Chillers
Piping & Pumping Gallery
Structural Slab in Gallery Areas
S
N
220 FT Width
220 FT Length


Roof Parapet Ht 55FT
55 FT Ht.
10 MW Turbine Generator Sets
Major Equipment Gallery
26 FT Ht
Structural Slab in Gallery Areas
Piping & Pumping Gallery
E
W
220 FT Width
220 FT Length

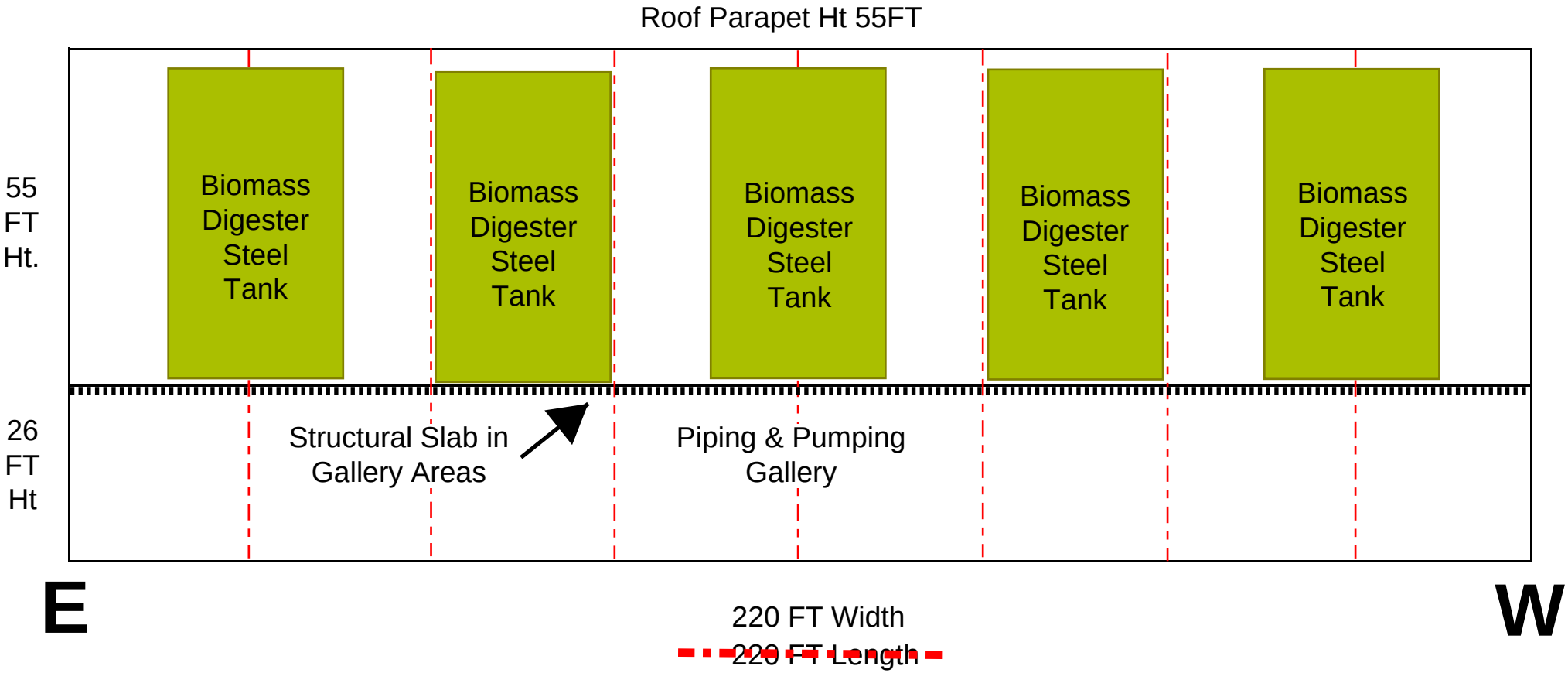

Roof Parapet Ht 55FT
2200 Hp Direct Fired Hot Water Boiler
55 FT Ht.
3000 Hp Boiler
3000 Hp Boiler
3000 Hp Boiler
3000 Hp Boiler
3000 Hp Boiler
3000 Hp Boiler
Major Equipment Gallery
26 FT Ht
Structural Slab in Gallery Areas
Piping & Pumping Gallery
E
W
220 FT Width
220 FT Length

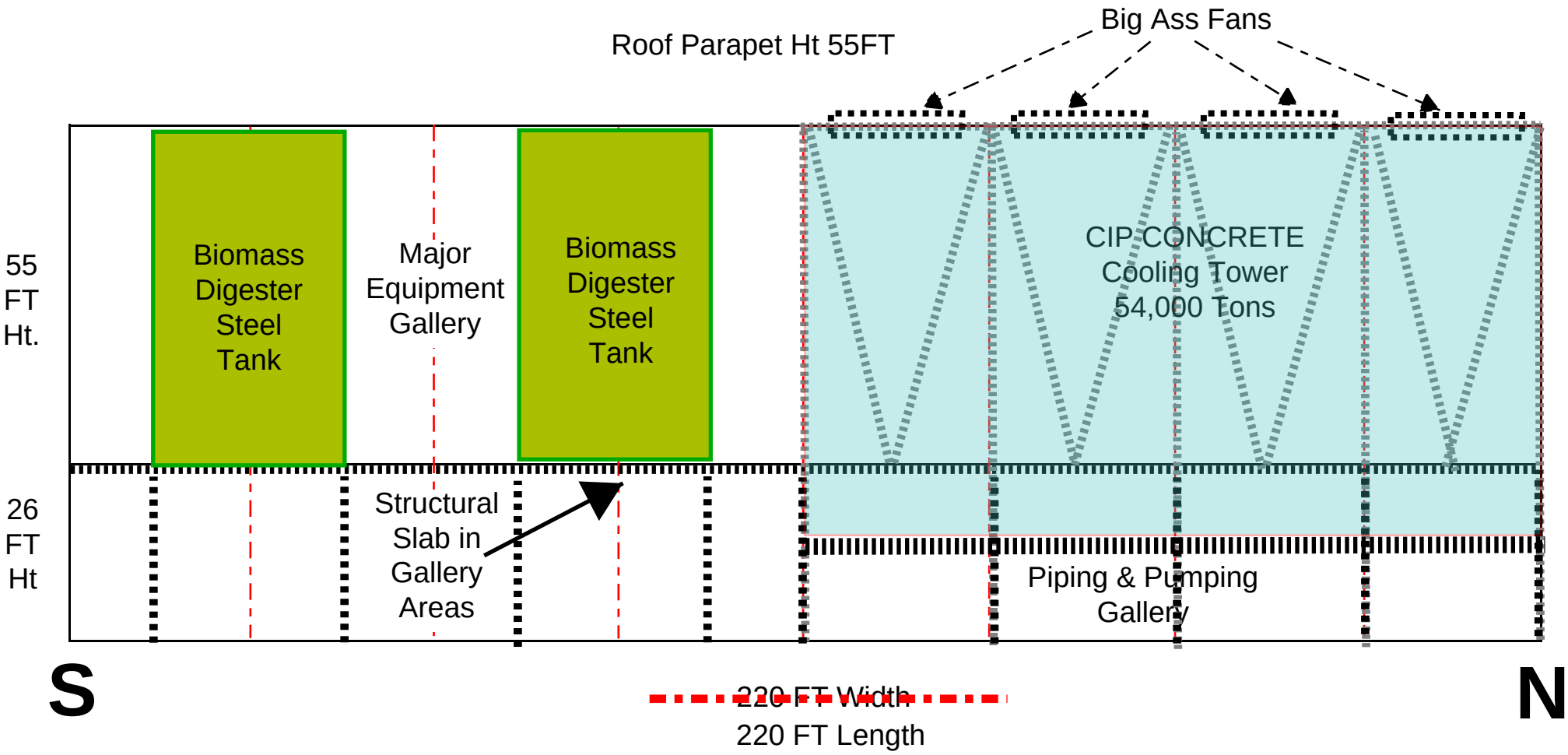

Roof Parapet Ht 55FT
Turbine Flue Gas CO2 Extractors
Major Equipment Gallery
55 FT Ht.
CO2 Scrubber Amine Beds
CO2 Scrubber Amine Beds
CO2 Scrubber Amine Beds
CO2 Scrubber Amine Beds
CO2 Scrubber Amine Beds
CO2 Scrubber Amine Beds
26 FT Ht
Structural Slab in Gallery Areas
Piping & Pumping Gallery
E
W
220 FT Width
220 FT Length

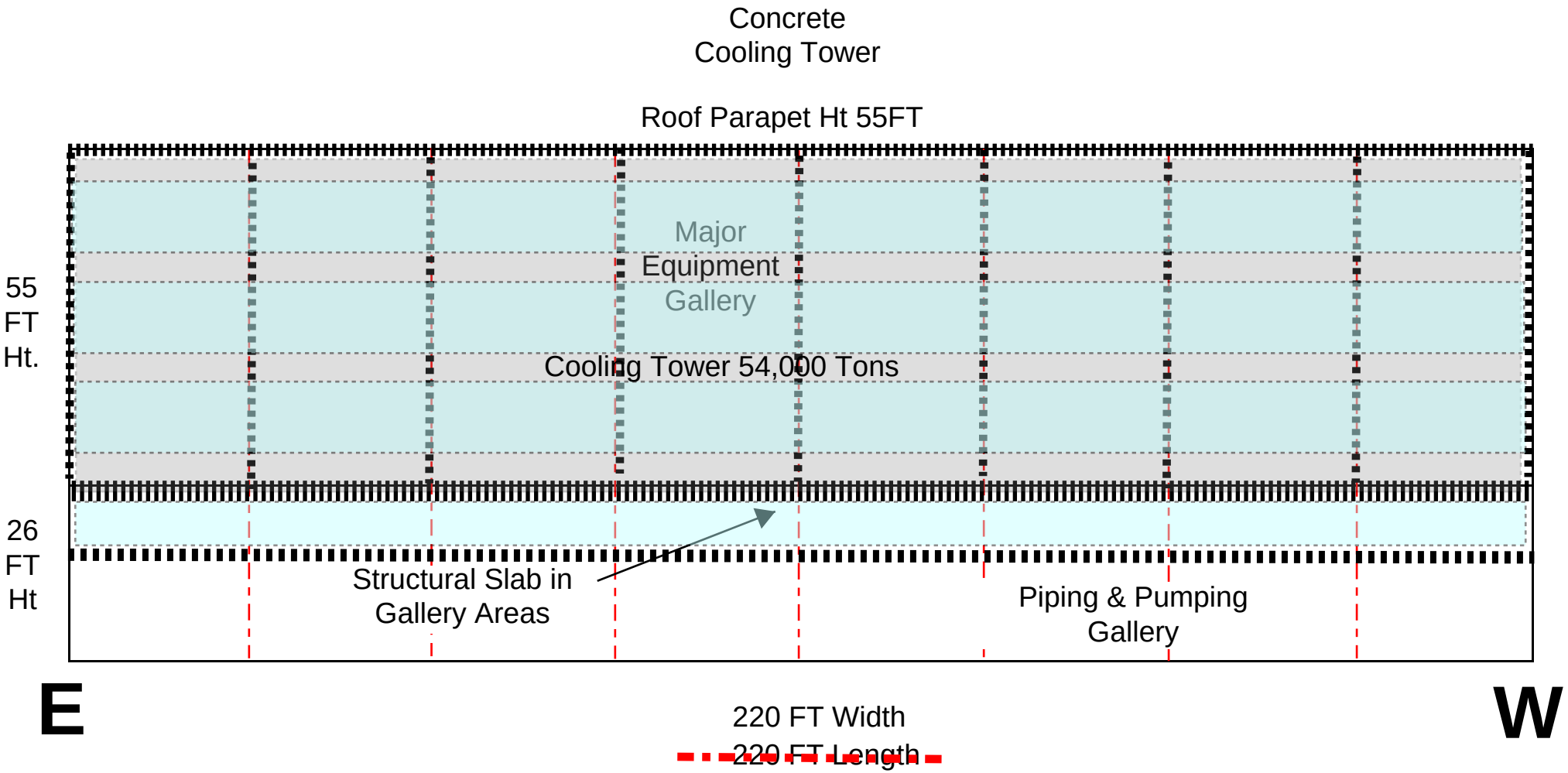

Roof Parapet Ht 55FT
Major Equipment Gallery
3000 Ton
Sngl Effect Hot
Water Absorption
Chiller Bays
55
FT
Ht.
3000 Ton Absorpt Chillers
3000 Ton Absorpt Chillers
3000 Ton Absorpt Chillers
3000 Ton Absorpt Chillers
3000 Ton Absorpt Chillers
3000 Ton Absorpt Chillers
26
FT
Ht
Structural Slab in Gallery Areas
Piping & Pumping Gallery
E
W
220 FT Width
220 FT Length


Roof Parapet Ht 55FT
Big Ass Fans
55 FT Ht.
26 FT Ht
Biomass Digester Steel Tank
Major Equipment Gallery
Biomass Digester Steel Tank
CIP CONCRETE Cooling Tower 54,000 Tons
Structural Slab in Gallery Areas
Piping & Pumping Gallery
S
N
220 FT Width
220 FT Length

Major Equipment
Gallery




Roof Parapet Ht 55FT
Big Ass Fans
55 FT Ht.
26 FT Ht
Biomass Digester Steel Tank
Major Equipment Gallery
Biomass Digester Steel Tank
CIP CONCRETE Cooling Tower 54,000 Tons
Structural Slab in Gallery Areas
Piping & Pumping Gallery
S
N
220 FT Width
220 FT Length


Concrete
Cooling Tower
Roof Parapet Ht 55FT
55
FT
Ht.
Major
Equipment
Gallery
Cooling Tower 54,000 Tons
26
FT
Ht
Structural Slab in
Gallery Areas
Piping & Pumping
Gallery
E
W
220 FT Width
220 FT Length

APPENDIX G

VIBRATION WORKSHEETS

GROUNDBORNE VIBRATION ANALYSIS

Project:	19273 DHS 109	Date:	7/17/20
Source:	Vibratory Roller		
Scenario:	Unmitigated		
Location:	Residential to South		
Address:			

PPV = PPVref(25/D)^n (in/sec)

INPUT

Equipment Type =	1	Vibratory Roller	INPUT SECTION IN GREEN
PPVref =	0.21	Reference PPV (in/sec) at 25 ft.	
D =	270.00	Distance from Equipment to Receiver (ft)	
n =	1.50	Vibration attenuation rate through the ground	

Note: Based on reference equations from Vibration Guidance Manual, California Department of Transportation, 2006, pgs 38-43.

RESULTS

PPV =	0.006	IN/SEC	OUTPUT IN BLUE

GROUNDBORNE VIBRATION ANALYSIS

Project:	19273 DHS 109	Date:	7/17/20
Source:	Large Bulldozer		
Scenario:	Unmitigated		
Location:	Residential to South		
Address:			

PPV = PPVref(25/D)^n (in/sec)

INPUT

Equipment = Type	2	Large Bulldozer	INPUT SECTION IN GREEN
PPVref =	0.089	Reference PPV (in/sec) at 25 ft.	
D =	270.00	Distance from Equipment to Receiver (ft)	
n =	1.50	Vibration attenuation rate through the ground	

Note: Based on reference equations from Vibration Guidance Manual, California Department of Transportation, 2006, pgs 38-43.

RESULTS

PPV =	0.003	IN/SEC	OUTPUT IN BLUE

GROUNDBORNE VIBRATION ANALYSIS

Project:	19273 DHS 109		Date: 7/17/20
Source:	Vibratory Roller		
Scenario:	Unmitigated		
Location:	Industrial to West		
Address:			

PPV = PPVref(25/D)^n (in/sec)

INPUT

Equipment Type =	1	Vibratory Roller	INPUT SECTION IN GREEN
PPVref =	0.21	Reference PPV (in/sec) at 25 ft.	
D =	480.00	Distance from Equipment to Receiver (ft)	
n =	1.50	Vibration attenuation rate through the ground	

Note: Based on reference equations from Vibration Guidance Manual, California Department of Transportation, 2006, pgs 38-43.

RESULTS

PPV =	0.002	IN/SEC	OUTPUT IN BLUE

GROUNDBORNE VIBRATION ANALYSIS

Project:	19273 DHS 109	Date:	7/17/20
Source:	Large Bulldozer		
Scenario:	Unmitigated		
Location:	Industrial to West		
Address:			

PPV = PPVref(25/D)^n (in/sec)

INPUT

Equipment Type =	2	Large Bulldozer	INPUT SECTION IN GREEN
PPVref =	0.089	Reference PPV (in/sec) at 25 ft.	
D =	480.00	Distance from Equipment to Receiver (ft)	
n =	1.50	Vibration attenuation rate through the ground	

Note: Based on reference equations from Vibration Guidance Manual, California Department of Transportation, 2006, pgs 38-43.

RESULTS

PPV =	0.001	IN/SEC	OUTPUT IN BLUE



GANDDINI GROUP, INC.
550 Parkcenter Drive, Suite 202, Santa Ana, CA 92705
714.795.3100 | www.ganddini.com

Appendix I1

Traffic Impact Analysis

DHS 109 BUSINESS PARK TRAFFIC IMPACT ANALYSIS

City of Desert Hot Springs

May 21, 2019

gandhi

Traffic Engineering ● Transportation Planning ● Parking ● Noise & Vibration
Air Quality ● Global Climate Change ● Health Risk Assessment

DHS 109 BUSINESS PARK
TRAFFIC IMPACT ANALYSIS

City of Desert Hot Springs

May 21, 2019



prepared by

Tom Huang, TE
Giancarlo Ganddini, TE, PTP

GANDDINI GROUP, INC.
550 Parkcenter Drive, Suite 202
Santa Ana, California 92705
714.795.3100 | www.ganddini.com

01-6627

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EXECUTIVE SUMMARY

The purpose of this Traffic Impact Analysis is to provide an assessment of traffic operations resulting from development of the proposed DHS 109 Business Park project and to identify measures necessary to mitigate potentially significant traffic impacts. This report analyzes traffic impacts for the anticipated project opening year in Year 2021 traffic conditions.

Although this is a technical report, effort has been made to write the report clearly and concisely. A glossary is provided in Appendix A to assist the reader with terms related to transportation engineering.

PROJECT DESCRIPTION

The project site is located east of Little Morongo Road between 15th Avenue and 16th Avenue in the City of Desert Hot Springs. The project site is proposed to include various industrial uses. The project site has a zoning designation of light industrial (I-L) use in the City of Desert Hot Springs General Plan. The applicant will be obtaining a Master Conditional Use Permit for cannabis activities including cultivation, extraction, processing, manufacturing, distribution and potentially, sales. The project site is proposed to consist of 364,180 square feet of general light industrial use and 767,770 square feet of industrial park (cannabis activity) use.

The primary access for the project site is though 15th Avenue at Little Morongo Road. The secondary emergency-only access is through Atlantic Avenue to Dillon Road.

The proposed project (southern portion of the site) is anticipated to be constructed and fully operational by year 2021.

EXISTING CONDITIONS

The study intersections currently operate within acceptable Levels of Service during the peak hours for Existing traffic conditions, except for the following study intersections that are projected to operate at deficient Levels of Service (see Table 1):

- Indian Canyon Drive/Dillon Road – #3 (AM peak hour)
- Palm Drive/Two Bunch Palms Trail – #14 (AM peak hour)

A traffic signal appears to currently be warranted at the following study intersections based upon the California Manual on Uniform Traffic Control Devices (2014) for Existing conditions:

- Indian Canyon Drive/Pierson Boulevard – #2
- Indian Canyon Drive/Dillon Road – #3
- Little Morongo Road/Two Bunch Palms Trail – #8
- Little Morongo Road/Dillon Road – #10
- Little Morongo Road/Camino Aventura – #16

PROJECT TRIPS

The proposed project is forecast to generate a total of approximately 3,665 daily PCE trips, including 531 PCE trips during the morning peak hour and 490 PCE trips during the evening peak hour.

FORECAST OPERATIONS

Existing Plus Project Conditions: The study intersections are projected to operate within acceptable Levels of Service during the peak hours for Existing Plus Project traffic conditions, except for the following study intersections that are projected to operate at deficient Levels of Service (see Table 4):

- Indian Canyon Drive/Dillon Road – #3 (AM & PM peak hours)
- Little Morongo Road/15th Avenue – #9 (PM peak hour)
- Palm Drive/Two Bunch Palms Trail – #14 (AM peak hour)
- Palm Drive/Dillon Road – #17 (AM peak hour)

Existing Plus Ambient Project Conditions: The study intersections are projected to operate within acceptable Levels of Service (D or better) during the peak hours for Existing Plus Ambient Plus Project traffic conditions, except for the following study intersection that is projected to operate at deficient Levels of Service (see Table 5):

- Indian Canyon Drive/Dillon Road – #3 (AM & PM peak hours)
- Little Morongo Road/15th Avenue – #9 (PM peak hour)
- Palm Drive/Two Bunch Palms Trail – #14 (AM peak hour)
- Palm Drive/Dillon Road – #17 (AM peak hour)

Existing Plus Ambient Plus Project Plus Cumulative Conditions: The study intersections are projected to operate within acceptable Levels of Service during the peak hours for Existing Plus Ambient Plus Project Plus Cumulative traffic conditions, except for the following study intersection that is projected to operate at deficient Levels of Service (see Table 6):

- Indian Canyon Drive/Pierson Boulevard – #2 (AM & PM peak hours)
- Indian Canyon Drive/Dillon Road – #3 (AM & PM peak hours)
- Little Morongo Road/Pierson Boulevard – #7 (AM & PM peak hours)
- Little Morongo Road/Two Bunch Palms Trail – #8 (AM & PM peak hours)
- Little Morongo Road/15th Avenue – #9 (AM & PM peak hours)
- Little Morongo Road/Dillon Road – #10 (AM & PM peak hours)
- Atlantic Avenue/Dillon Road – #11 (AM & PM peak hours)
- Palm Drive/Two Bunch Palms Trail – #14 (AM & PM peak hours))
- Palm Drive/Camino Aventura – #16 (AM & PM peak hours)
- Palm Drive/Dillon Road – #17 (AM & PM peak hours)

MITIGATION MEASURES

The following off-site mitigation measures are recommended to address the Level of Service deficiency, for Existing Plus Project conditions and Existing Plus Ambient Plus Project conditions:

- Indian Canyon Drive/Dillon Road – #3
  - Install traffic signal (already satisfy signal warrant under Existing conditions)
  - Provide northbound left turn lane
  - Provide southbound left turn lane
  - Provide eastbound left turn lane
  - Provide westbound left turn lane

- Little Morongo Road/15th Avenue – #9
  - Install traffic signal (satisfy signal warrant under Existing Plus Project conditions)

- Provide southbound left turn lane
- Provide westbound left turn lane
- Provide westbound right turn lane

- Palm Drive/Two Bunch Palms Trail – #14
  - Provide eastbound right-turn overlap phasing

- Palm Drive/Dillon Road – #17
  - Provide eastbound right-turn overlap phasing

The project shall construct the following improvements to provide project access and mitigate the significantly impacted intersections for Existing Plus Ambient Plus Cumulative Plus Project conditions:

- Indian Canyon Drive/Pierson Boulevard – #2
  - Install traffic signal (already satisfy signal warrant under Existing conditions)
  - Provide northbound left turn lane
  - Provide southbound left turn lane
  - Provide eastbound left turn lane
  - Provide westbound left turn lane

- Indian Canyon Drive/Dillon Road – #3
  - Install traffic signal (signal warrant currently satisfied under Existing conditions)
  - Provide northbound left turn lane
  - Provide northbound right turn lane with overlap phasing
  - Provide southbound left turn lane
  - Provide southbound right turn lane
  - Provide eastbound left turn lane
  - Provide eastbound right turn lane
  - Provide two westbound left turn lanes

- Little Morongo Road/Pierson Boulevard – #7
  - Install traffic signal (satisfy signal warrant under Existing Plus Ambient Plus Project Plus Cumulative conditions)
  - Provide northbound left turn lane
  - Provide southbound left turn lane
  - Provide eastbound left turn lane
  - Provide westbound left turn lane

- Little Morongo Road/Two Bunch Palms Trail – #8
  - Install traffic signal (already satisfy signal warrant under Existing conditions)
  - Provide northbound left turn lane
  - Provide northbound right turn lane
  - Provide southbound left turn lane
  - Provide eastbound left turn lane
  - Provide two westbound left turn lanes

- Little Morongo Road/15th Avenue – #9
  - Install traffic signal (already satisfy signal warrant under Existing Plus Project conditions)
  - Provide southbound left turn lane
  - Provide westbound left turn lane
  - Provide westbound right turn lane
  - Provide second northbound through lane

- Little Morongo Road/Dillon Road – #10
  - Install traffic signal (already satisfy signal warrant under Existing conditions)
  - Provide northbound left turn lane
  - Provide southbound left turn lane
  - Provide second eastbound left turn lane
  - Provide westbound right turn lane

- Atlantic Avenue/Dillon Road – #11
  - Restrict southbound left turn

- Palm Drive/Two Bunch Palms Trail – #14
  - Provide second northbound left turn lane
  - Provide third southbound through lane
  - Provide eastbound right-turn overlap phasing

- Palm Drive/Camino Aventura – #16
  - Install traffic signal (already satisfy signal warrant under Existing conditions)

- Palm Drive/Dillon Road – #17
  - Provide third southbound through lane
  - Provide southbound right-turn overlap phasing
  - Provide eastbound right-turn overlap phasing

Since this is a degradation of traffic level of service for the already impacted intersections during the Existing conditions, the project applicant should pay its fair share of fees to an applicable program for the required mitigations. Some of the intersections currently satisfy the traffic signal warrant based on Existing conditions.

The project's fair share percentages of identified impacted intersections are approximately 6.5% to 46.9%. The fair share calculations are intended only for the discussion purposes of this traffic impact analysis, and do not imply any legal responsibility or formula for contributions or mitigation.

1. INTRODUCTION

This section describes the purpose of this traffic impact analysis, project location, proposed development, and study area. Figure 1 shows the project location map and Figure 2 illustrates the project site plan.

PURPOSE AND OBJECTIVES

The purpose of this traffic impact analysis is to provide an assessment of traffic operations resulting from development of the proposed DHS 109 Business Park project and to identify measures necessary to mitigate potentially significant traffic impacts. This report analyzes traffic impacts for the anticipated project opening year in 2021.

Although this is a technical report, effort has been made to write the report clearly and concisely. A glossary of terms is provided in Appendix A to assist the reader with terms related to transportation engineering.

PROJECT DESCRIPTION

The project site is located east of Little Morongo Road between 15th Avenue and 16th Avenue in the City of Desert Hot Springs. The project site is proposed to include various industrial uses. The project site has a zoning designation of light industrial (I-L) use in the City of Desert Hot Springs General Plan. The applicant will be obtaining a Master Conditional Use Permit for cannabis activities including cultivation, extraction, processing, manufacturing, distribution and potentially, sales. The project site is proposed to consist of 364,180 square feet of general light industrial use and 767,770 square feet of industrial park (cannabis activity) use.

The primary access for the project site is though 15th Avenue at Little Morongo Road. The secondary emergency-only access is through Atlantic Avenue to Dillon Road.

The proposed project is anticipated to be constructed and fully operational by year 2021.

STUDY AREA

Based on the study intersections identified in the approved scoping agreement (Appendix B), the study area consists of the following study intersections within the City of Desert Hot Springs, City of Corona, and California Department of Transportation (Caltrans) jurisdictions:

Study Intersections[1]	Jurisdiction
1. I-10 Eastbound Ramps (NS) at Garnet Avenue (EW)	Caltrans/City of Palm Springs
2. Indian Canyon Drive (NS) at Pierson Boulevard (EW)	City of Desert Hot Springs
3. Indian Canyon Drive (NS) at Dillon Road (EW)	County of Riverside
4. Indian Canyon Drive (NS) at 20th Avenue (EW)	City of Palm Springs
5. Indian Canyon Drive (NS) at Garnet Avenue (EW)	City of Palm Springs
6. I-10 Westbound Ramps (NS) at 20th Avenue (EW)	Caltrans
7. Little Morongo Road (NS) at Pierson Boulevard (EW)	City of Desert Hot Springs
8. Little Morongo Road (NS) at Two Bunch Palms Trail (EW)	City of Desert Hot Springs
9. Little Morongo Road (NS) at 15th Avenue(EW)	City of Desert Hot Springs
10. Little Morongo Road (NS) at Dillon Road (EW)	County of Riverside
11. Atlantic Avenue (NS) at Dillon Road (EW)	County of Riverside

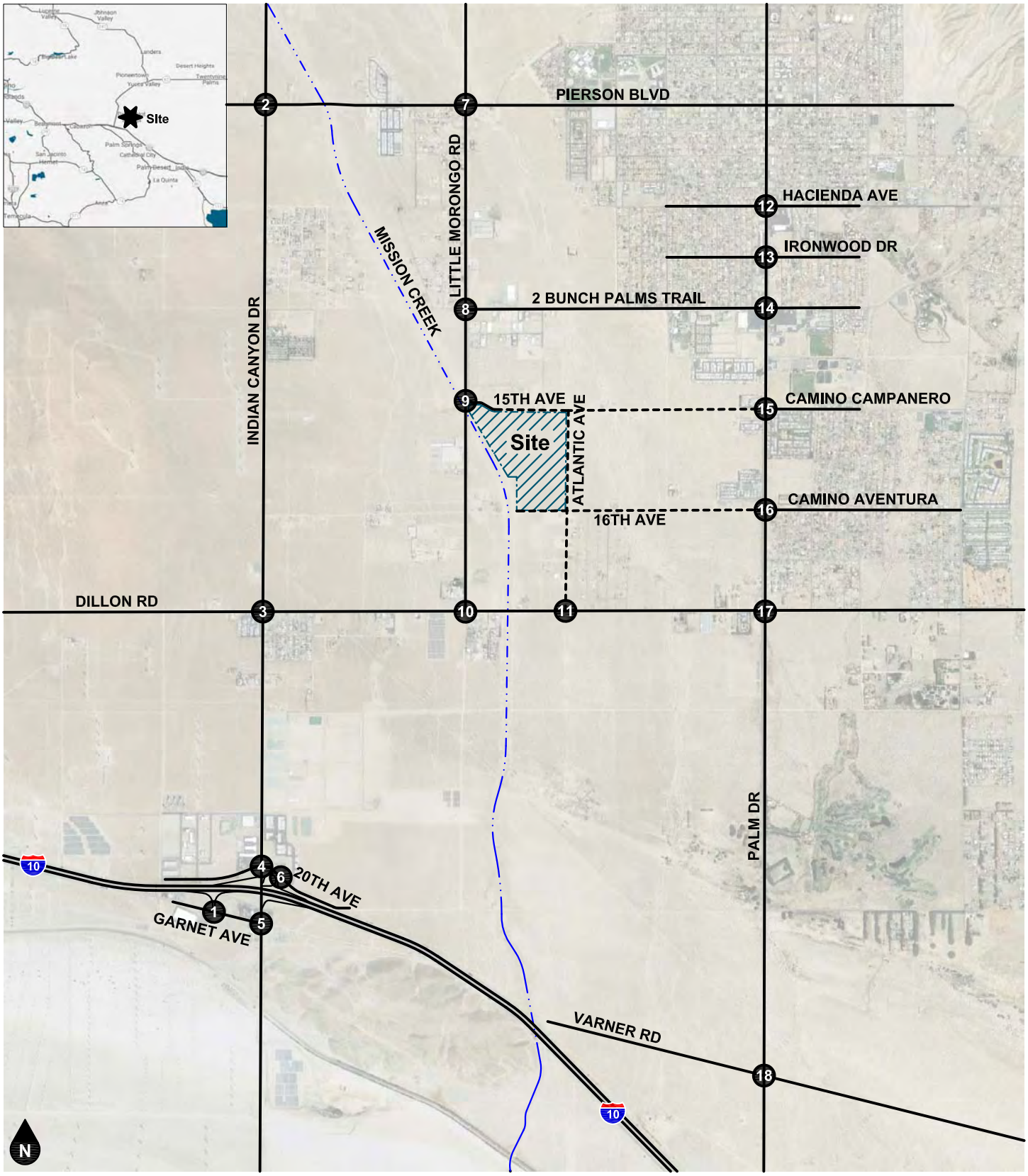
[1] (NS) = north-south roadway; (EW) = east-west roadway

Study Intersections[1]	Jurisdiction
12. Palm Drive (NS) at Hacienda Avenue (EW)	City of Desert Hot Springs
13. Palm Drive (NS) at Ironwood Drive (EW)	City of Desert Hot Springs
14. Palm Drive (NS) at Two Bunch Palm Trails (EW)	City of Desert Hot Springs
15. Palm Drive (NS) at Camino Campanero (EW)	City of Desert Hot Springs
16. Palm Drive (NS) at Camino Aventura (EW)	City of Desert Hot Springs
17. Palm Drive (NS) at Dillon Road (EW)	County of Riverside
18. Palm Drive (NS) at Varner Road (EW)	County of Riverside

ANALYSIS SCENARIOS

The following scenarios are analyzed during typical weekday morning and evening peak hour conditions:

- Existing Conditions
- Existing Plus Project Conditions
- Existing Plus Ambient Plus Project Conditions
- Existing Plus Ambient Plus Project Plus Cumulative Conditions



Legend

(#) Study Intersection

Figure 1
Project Location Map

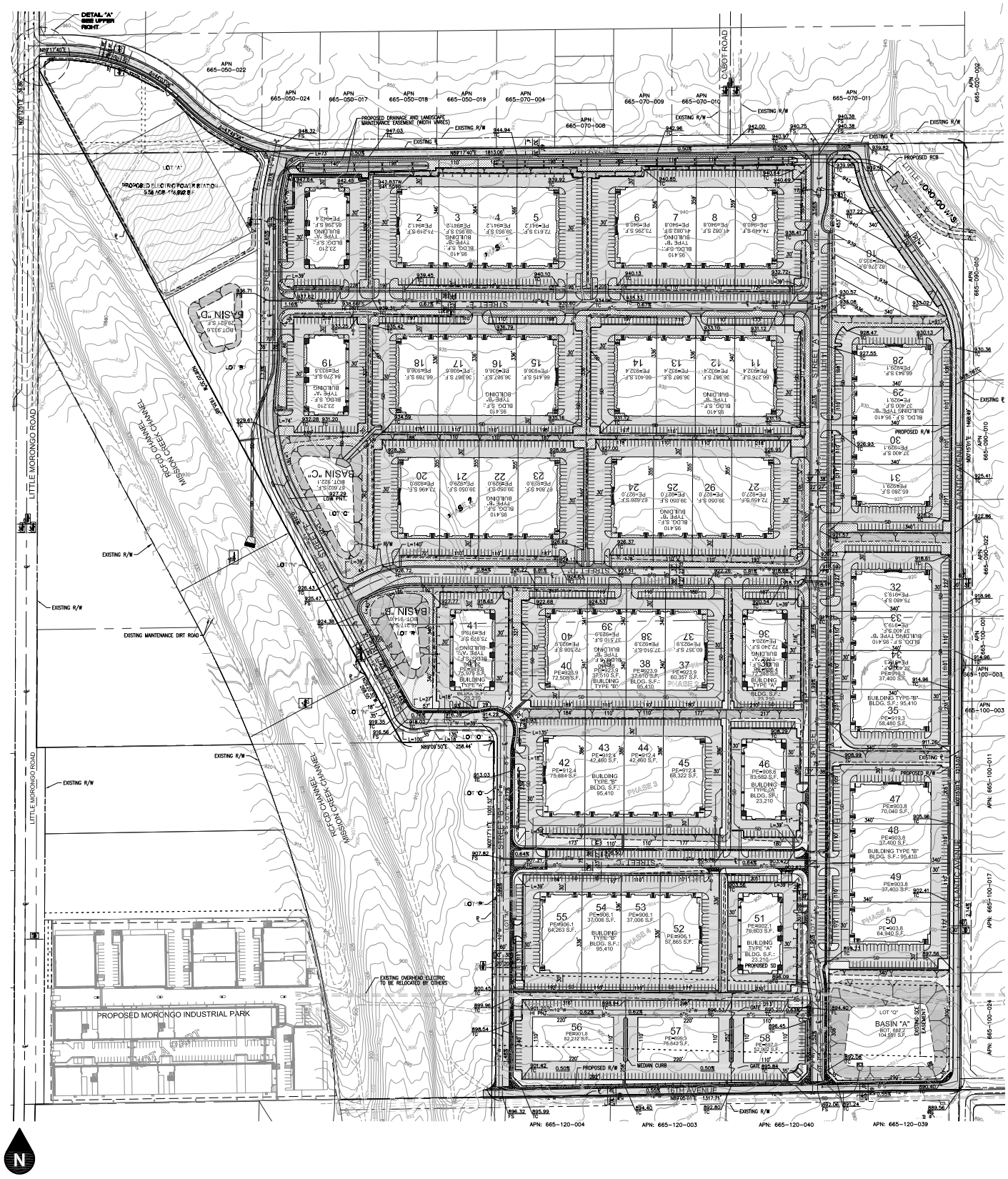


Figure 2
Site Plan

2. METHODOLOGY

This section discusses the analysis methodologies used to assess transportation facility performance as adopted by the respective jurisdictional agencies.

INTERSECTION DELAY METHODOLOGY

The technique used to assess the performance of intersections is known as the intersection delay methodology based on the procedures contained in the Highway Capacity Manual (Transportation Research Board, 6th Edition). The methodology considers the traffic volume and distribution of movements, traffic composition, geometric characteristics, and signalization details to calculate the average control delay per vehicle and corresponding Level of Service. Control delay is defined as the portion of delay attributed to the intersection traffic control (such as a traffic signal or stop sign) and includes initial deceleration, queue move-up time, stopped delay, and final acceleration delay. The intersection control delay is then correlated to Level of Service based on the following thresholds:

Level of Service	Intersection Control Delay (Seconds / Vehicle)	
	Signalized Intersection	Unsignalized Intersection
A	≤ 10.0	≤ 10.0
B	> 10.0 to ≤ 20.0	> 10.0 to ≤ 15.0
C	> 20.0 to ≤ 35.0	> 15.0 to ≤ 25.0
D	> 35.0 to ≤ 55.0	> 25.0 to ≤ 35.0
E	> 55.0 to ≤ 80.0	> 35.0 to ≤ 50.0
F	> 80.0	> 50.0

Source: Transportation Research Board, Highway Capacity Manual (6th Edition).

Level of Service is used to qualitatively describe the performance of a roadway facility, ranging from Level of Service A (free-flow conditions) to Level of Service F (extreme congestion and system failure). At intersections with traffic signal or all way stop control, Level of Service is determined by the average control delay for the overall intersection. At intersections with cross street stop control (i.e., one- or two-way stop control), Level of Service is determined by the average control delay for the worst individual movement (or movements sharing a single lane).

Intersection delay analysis was performed using the Vistro (Version 6.00-00) software. Saturation flow rates of 1,800 vehicles per hour of green for through and right turn lanes and 1,700 vehicles per lane for single left turn lanes, 1,600 vehicles per lane for dual left turn lanes, and 1,500 vehicles per lane for triple left turn lanes have been assumed for the capacity analysis. Measured peak hour factors have been applied for existing and near-term conditions.

PERFORMANCE STANDARDS

County of Riverside. The definition of an intersection deficiency has been obtained from the County of Riverside General Plan. The General Plan states that peak hour intersection operations of Level of Service C or better are generally acceptable along all County maintained roads and conventional state highways. As an exception, Level of Service D may be allowed in Community Development areas, only at intersections of any combination of Secondary Highways, Major Highways, Arterial Highways, Urban Arterial Highways, Expressways, conventional state highways or freeway ramp intersections.

California Department of Transportation. As stated in the Guide for the Preparation of Traffic Impact Studies (State of California, 2002), "California Department of Transportation endeavors to maintain a target LOS [Level of Service] at the transition between LOS "C" and LOS "D" on State highway facilities". The California Department of Transportation acknowledges this may not always be feasible and recommends consultation with the California Department of Transportation to determine the appropriate target Level of Service. For consistency with local requirements, this analysis defines Level of Service D as the minimum acceptable Level of Service for State Highway facilities.

City of Desert Hot Springs. The City of Desert Hot Springs has established Level of Service D as the minimum acceptable Level of Service.

THRESHOLDS OF SIGNIFICANCE

Based on the established performance standards, a potentially significant transportation impact is defined to occur if the project causes or worsens unacceptable Level of Service (E or F) at a study intersection.

3. EXISTING CONDITIONS

EXISTING ROADWAY SYSTEM

Figure 3 identifies the lane geometry and intersection traffic controls for Existing conditions based on a field survey of the study area. Regional access to the project site is provided by the I-10 Freeway located approximately 2.3 miles south of the project site and State Route 62 (SR-62) located approximately 4.1 miles west of the project site. Key roadways providing local circulation include Indian Canyon Road, Little Morongo Road, Palm Drive, Pierson Boulevard, Two Bunch Palms Trail, Dillon Road and Varner Road.

GENERAL PLAN CONTEXT

Figure 4 shows the City of Desert Hot Springs General Plan Circulation Element roadway classifications map. This figure shows the nature and extent of arterial and collector highways that are needed to adequately serve the ultimate development depicted by the Land Use Element of the General Plan. The City of Desert Hot Springs standard roadway cross-sections are illustrated on Figure 5.

TRANSIT SERVICE

Figure 6 shows Existing public transit facilities and routes in the project vicinity. There are currently no transit routes in the immediate project vicinity. SunLine Transit Agency bus route 14 runs along Palm Drive. Bus route 20 runs along Pierson Boulevard from Palm Drive to West Drive and along Palm Drive from Pierson Boulevard to Interstate 10. Bus route 15 runs along Pierson Boulevard from Palm Drive to West Drive and along Palm Drive from Pierson Boulevard to Two Bunch Palms Trails.

BICYCLE FACILITIES

The City of Desert Hot Springs bike paths are illustrated on Figure 7. A future Multi-Use Path is planned along Little Morongo Road, a Bike Lane is planned along 15th Avenue east of Little Morongo Road and a future Buffered Bike Lane is planned along Dillon Road east of Little Morongo Road. There are currently no existing bicycle facilities in the immediate project vicinity. Sidewalks are not provided on both sides of the street along Little Morongo Road and Dillon Road.

EXISTING ROADWAY VOLUMES

Figure 8 shows the Existing average daily traffic volumes. The Existing average daily traffic volumes have been factored from peak hour intersection turning movement volumes using the following formula for each intersection leg:

Evening Peak Hour (Approach Volume + Exit Volume) x 13.2[2] = Leg Volume.

The peak hour to daily volume factor was derived based on a comparison of the existing evening peak hour intersection turning movement volumes with sample 24-hour roadway segment volume data obtained from the Coachella Valley Association of Governments Traffic Census Report (2017). This is a conservative estimate and may over-estimate the average daily traffic volumes.

Existing peak hour traffic conditions are based upon morning peak period and evening peak period intersection turning movement counts obtained in June and September 2017, April 2018 and April 2019 during typical weekday conditions. The 2017 counts include a 4% growth to factor up to 2019 conditions. 2018 counts

[2] Source: Approximate average evening peak hour K factor based on a comparison of the existing peak hour intersection turning movement counts with the roadway segment daily traffic volume data.

include a 2% growth to factor up to 2019 conditions. The weekday morning peak period was counted between 7:00 AM and 9:00 AM, and the weekday evening peak period was counted between 4:00 PM and 6:00 PM. The actual peak hour within the peak period is the four consecutive 15 minute periods with the highest total volume when all movements are added together. Thus, the weekday evening peak hour at one intersection may be 4:45 PM to 5:45 PM if those four consecutive 15 minute periods have the highest combined volume. Intersection turning movement count worksheets are provided in Appendix C.

Figure 9 and Figure 10 show the Existing morning peak hour and evening peak hour intersection turning movement volumes.

EXISTING LEVEL OF SERVICE

The intersection Levels of Service for Existing conditions have been calculated and are shown in Table 1. Existing intersection Level of Service worksheets are provided in Appendix D.

As shown in Table 1, the study intersections currently operate within acceptable Levels of Service during the peak hours for Existing conditions, except for the following study intersections that are projected to operate at deficient Levels of Service (E or F):

- Indian Canyon Drive/Dillon Road – #3 (AM peak hour)
- Palm Drive/Two Bunch Palms Trail – #14 (AM peak hour)

EXISTING TRAFFIC SIGNAL WARRANT ANALYSIS

Traffic signal warrants are satisfied at the following study intersections based upon the California Manual on Uniform Traffic Control Devices (2014), peak hour volume warrant (Warrant 3), for Existing conditions:

- Indian Canyon Drive/Pierson Boulevard – #2
- Indian Canyon Drive/Dillon Road – #3
- Little Morongo Road/Two Bunch Palms Trail – #8
- Little Morongo Road/Dillon Road – #10
- Little Morongo Road/Camino Aventura – #16

Traffic signal warrant analysis worksheets are provided in Appendix E.

Table 1
Existing Intersection Levels of Service

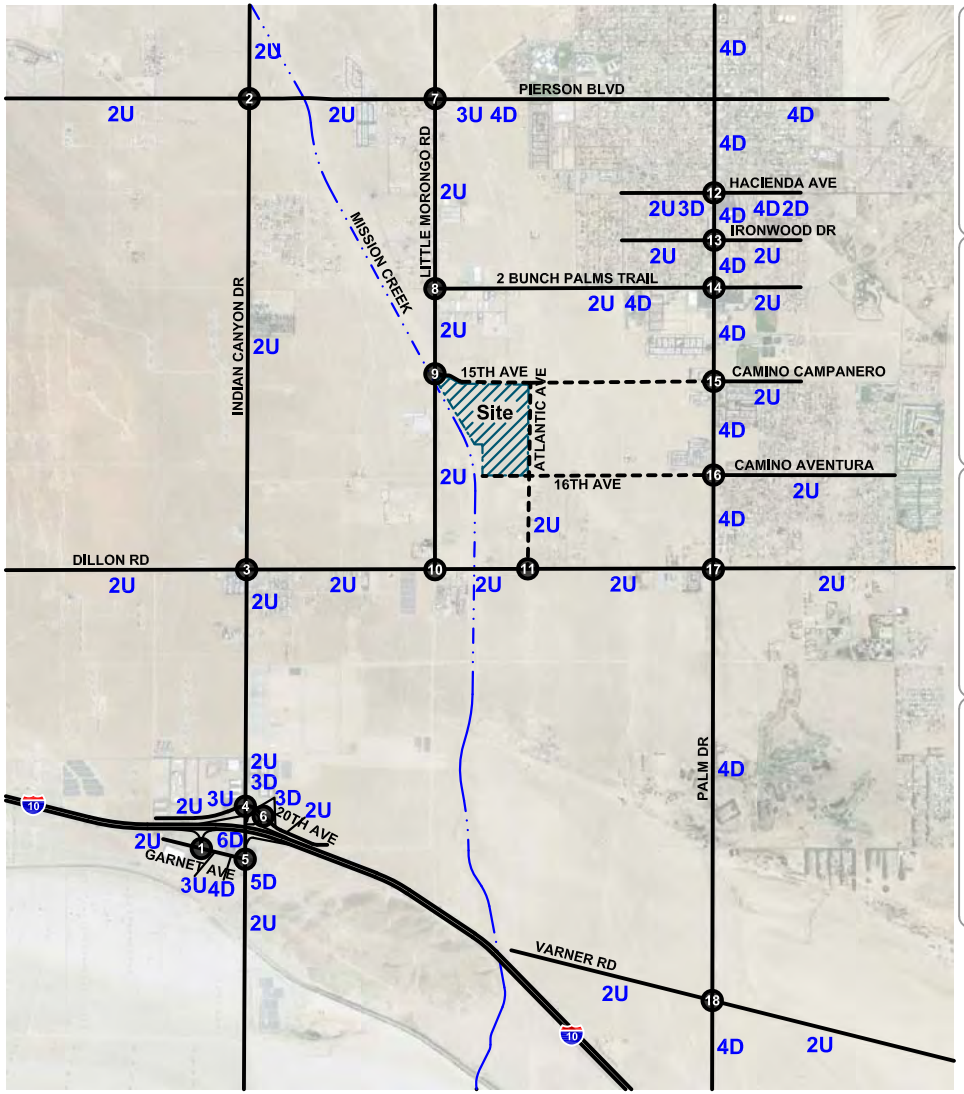
Study Intersection	Traffic Control[1]	Weekday AM Peak Hour		Weekday PM Peak Hour	
		Delay[2]	LOS[3]	Delay[2]	LOS[3]
1. I-10 EB Ramps at Garnet Ave	TS	17.5	B	15.3	B
2. Indian Canyon Dr at Pierson Blvd	AWS	16.8	C	14.1	B
3. Indian Canyon Dr at Dillon Rd	AWS	54.3	F	20.2	C
4. Indian Canyon Dr at 20th Ave	TS	15.1	B	16.2	B
5. Indian Canyon Dr at Garnet Ave	TS	17.3	B	14.7	B
6. I-10 WB Ramps at 20th Ave	TS	24.7	C	23.7	C
7. Little Morongo Rd at Pierson Blvd	AWS	9.6	A	10.0	B
8. Little Morongo Rd at 2 Bunch Palms Tr	AWS	12.6	B	11.1	B
9. Little Morongo Rd at 15th Ave	CSS	13.3	B	13.2	B
10. Little Morongo Rd at Dillon Rd	AWS	11.2	B	11.3	B
11. Atlantic Ave at Dillon Rd	CSS	13.5	B	12.8	B
12. Palm Dr at Hacienda Ave	TS	18.7	B	21.3	C
13. Palm Dr at Ironwood Dr	TS	13.4	B	13.8	B
14. Palm Dr at 2 Bunch Palms Trail	TS	58.7	E	29.6	C
15. Palm Dr at Camino Campanero	TS	13.1	B	11.2	B
16. Palm Dr at Camino Aventura	CSS	22.1	C	27.0	D
17. Palm Dr at Dillon Rd	TS	49.7	D	23.8	C
18. Palm Dr at Varner Rd	TS	8.2	A	5.9	A

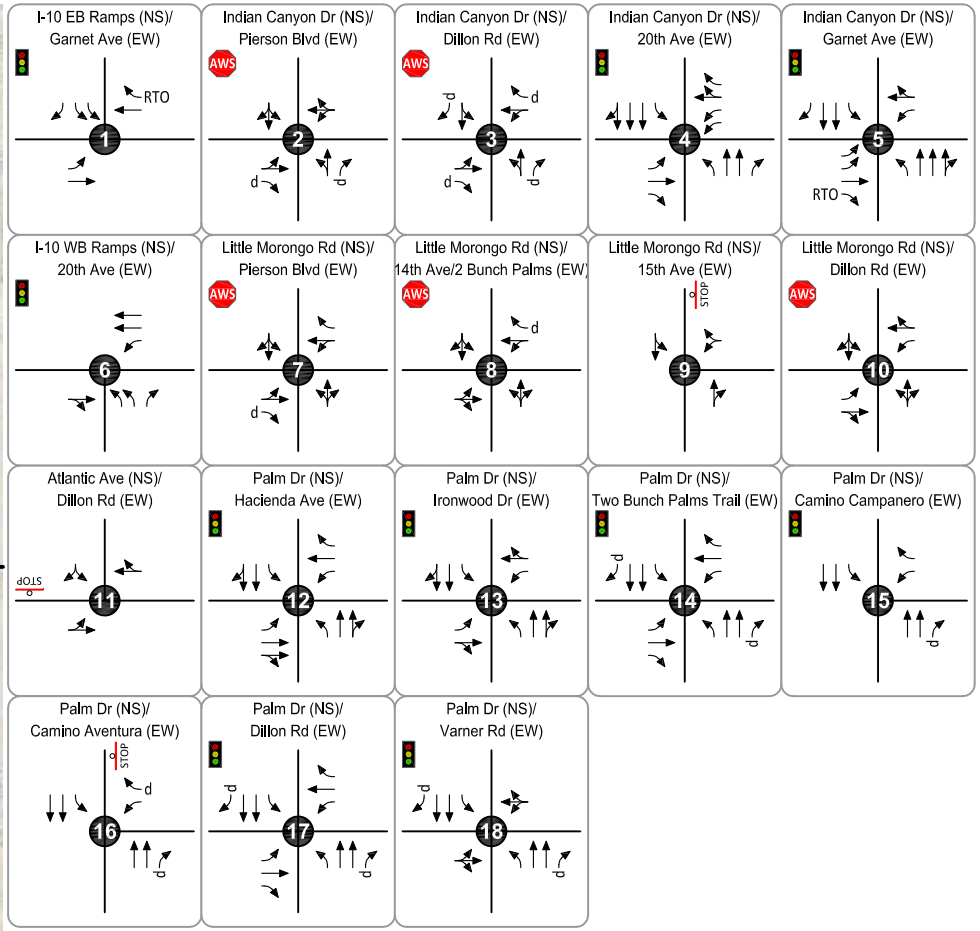
Notes:

(1) TS = Traffic Signal; CSS = Cross Street Stop

(2) Delay is shown in seconds/vehicle. For intersections with traffic signal or all way stop control, overall average intersection delay and LOS are shown. For intersections with cross street stop control, Level of Service is based on average delay of the worst individual lane (or

(3) LOS = Level of Service





Legend

- Traffic Signal
- AWS All Way Stop
- STOP Stop Sign
- #D #-Lane Divided Roadway
- #U #-Lane Undivided Roadway
- Existing Lane
- RTO Right Turn Overlap
- d De Facto Right Turn Lane

Figure 3
Existing Lane Gemoetry and Intersection Traffic Controls

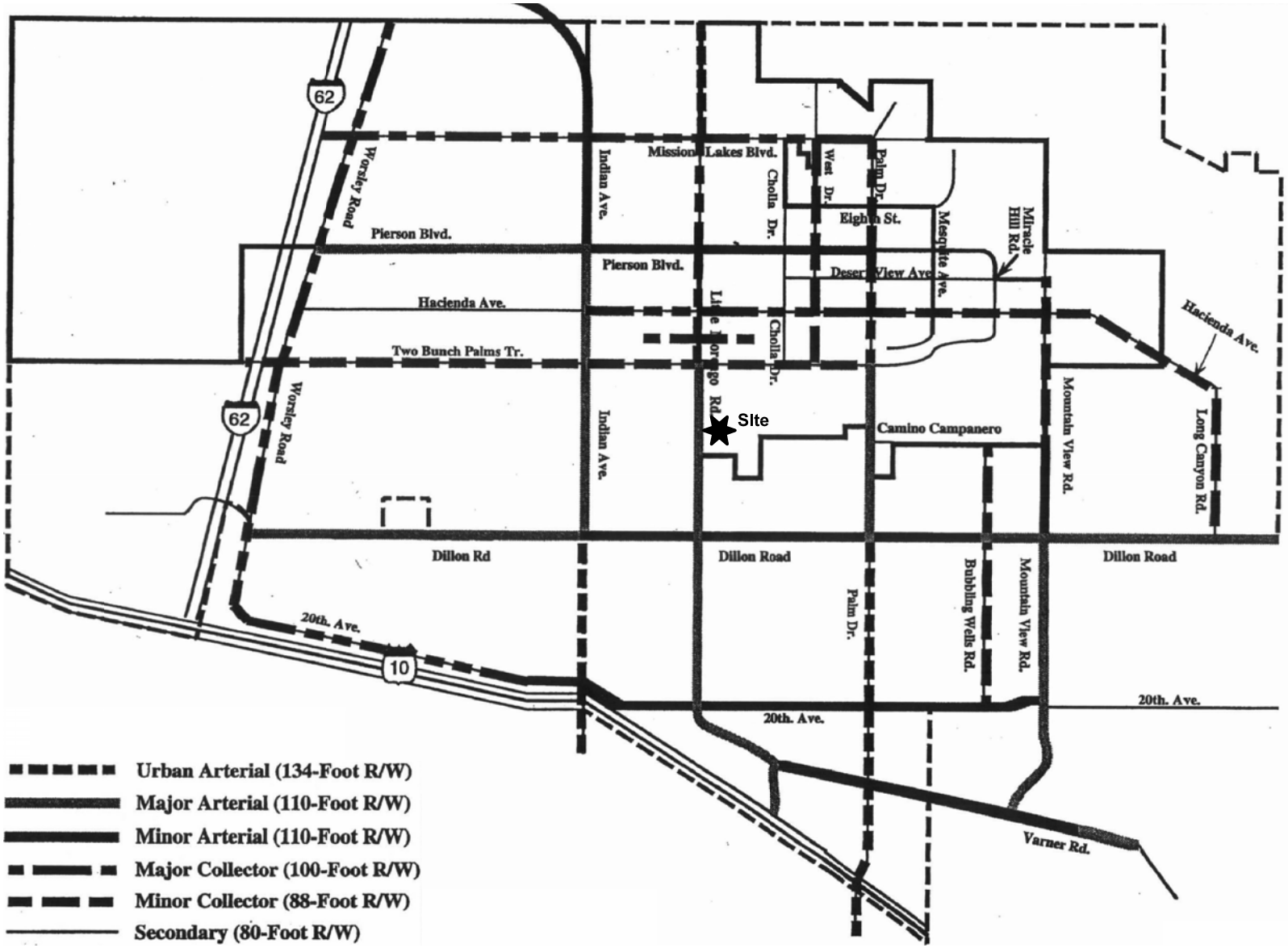


Figure 4
City of Desert Hot Springs General Plan Circulation Element

Source: City of Desert Hot Springs

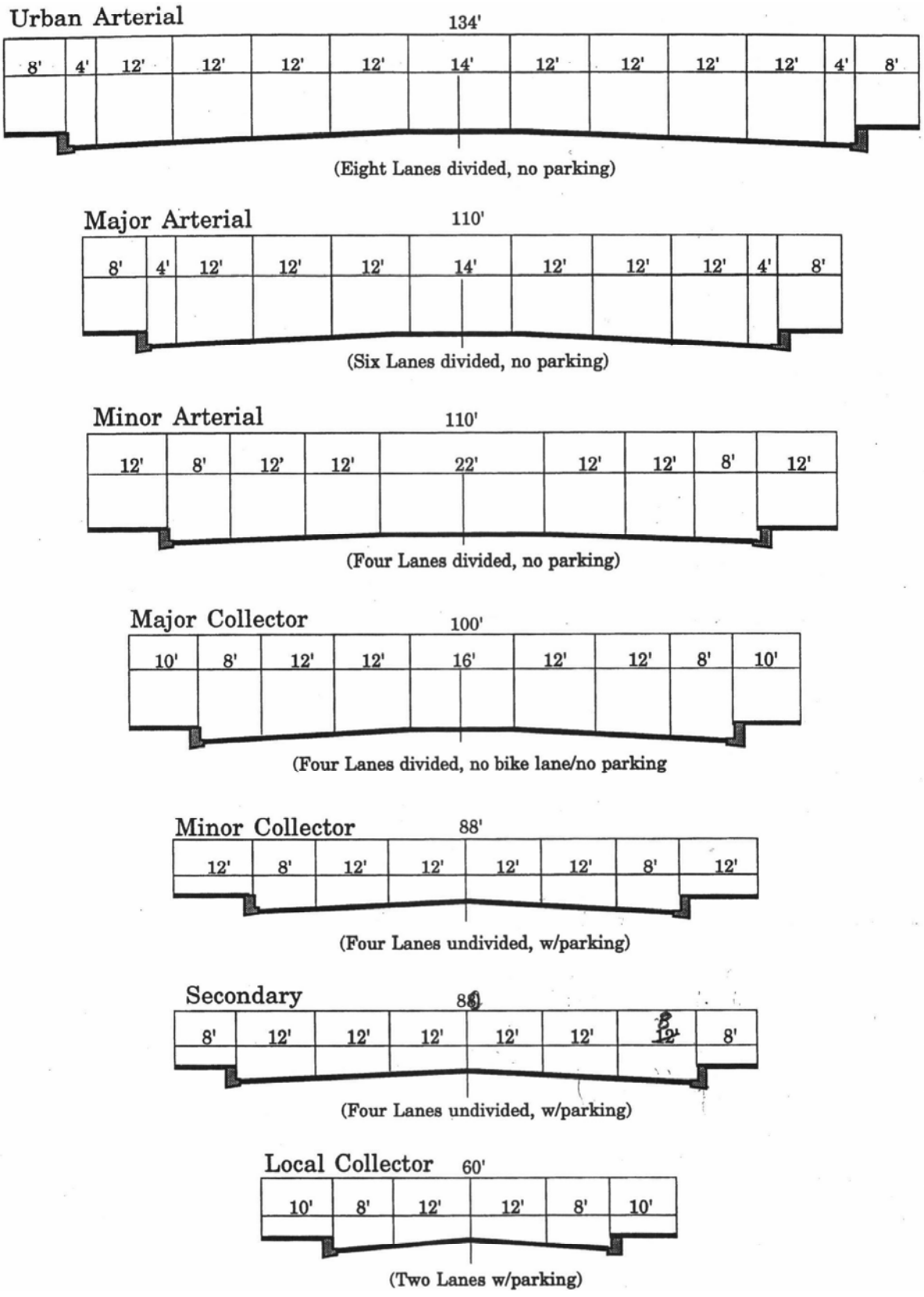


Figure 5
City of Desert Hot Springs General Plan Roadway Cross-Sections

Source: City of Desert Hot Springs



Figure 6
Existing Transit Routes

Source: SunLine Transit Agency

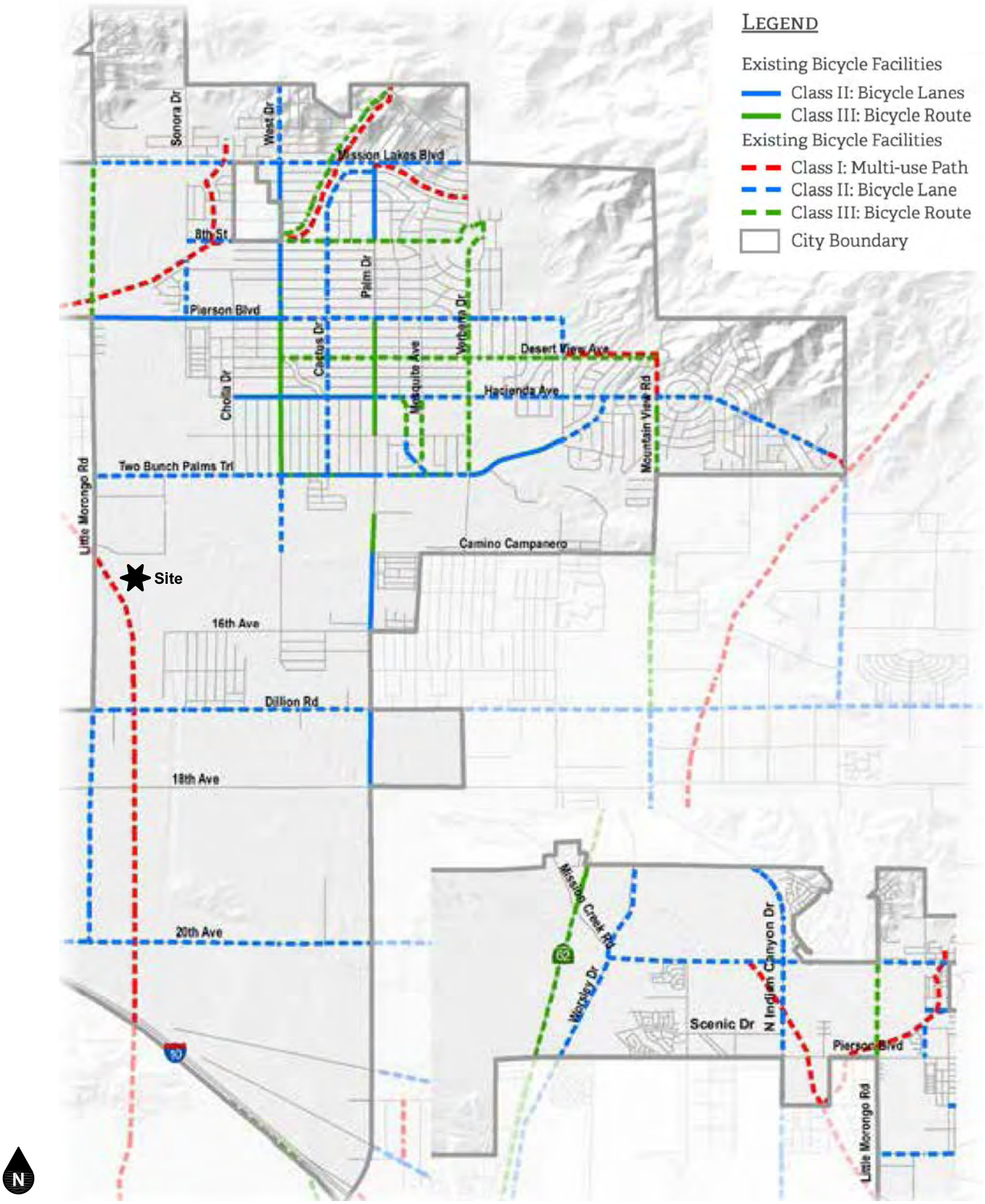
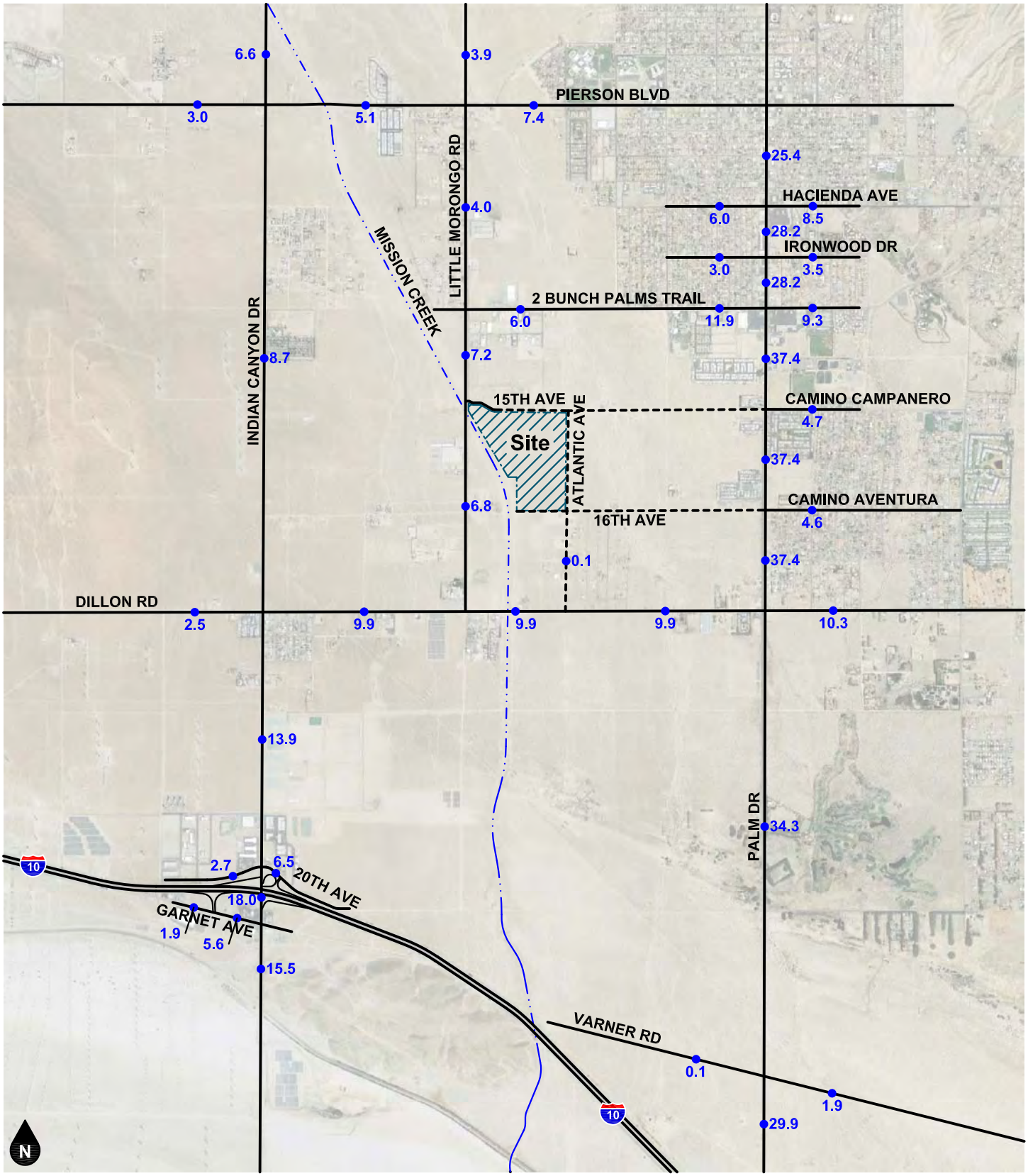


Figure 7
City of Desert Hot Springs General Plan Bike Routes

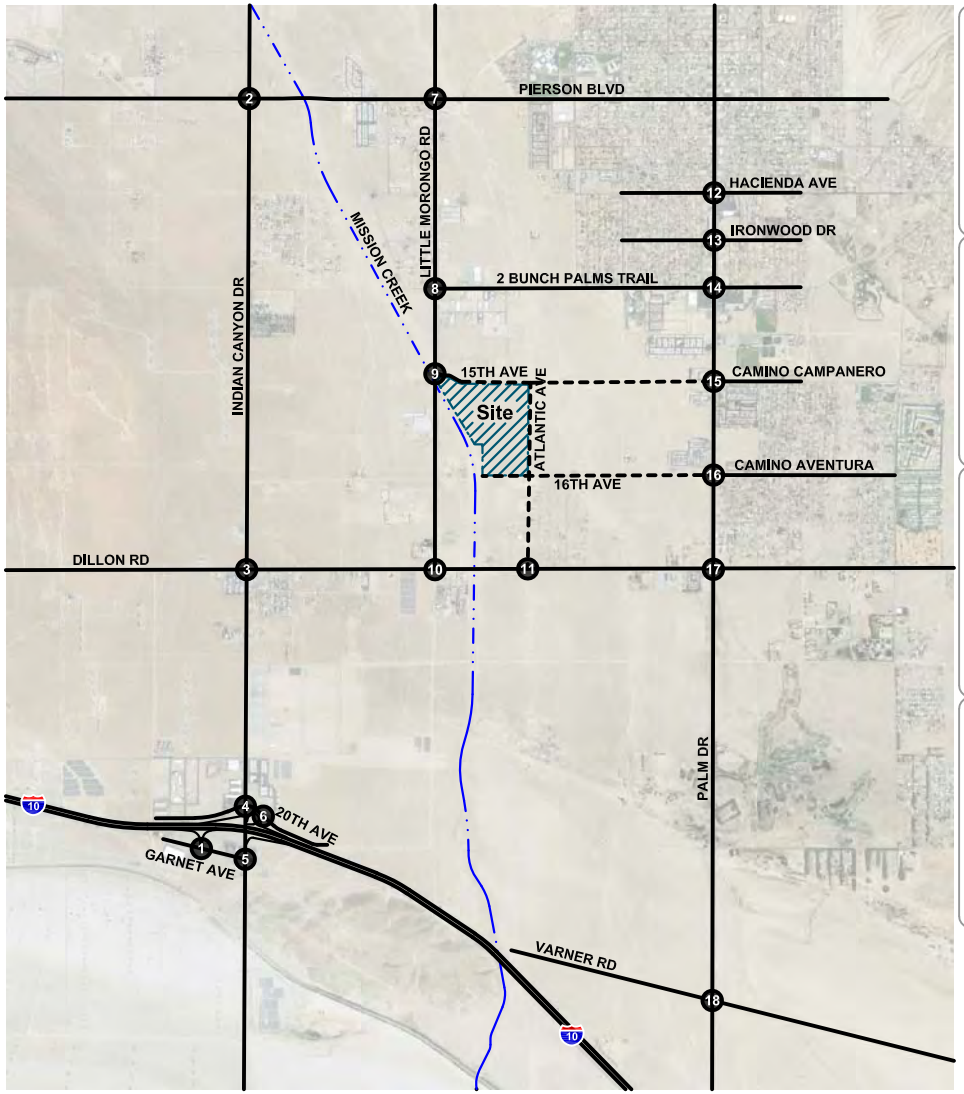
Source: City of Desert Hot Springs

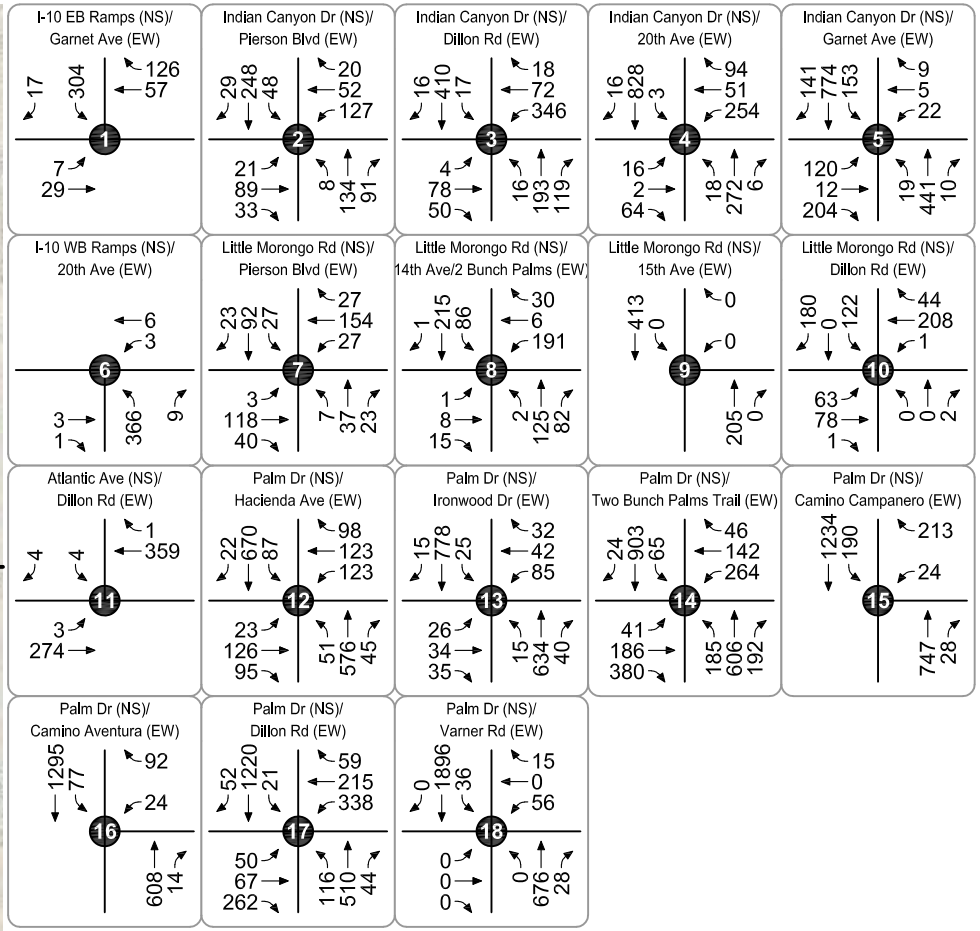


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●## Vehicles Per Day (1,000's)

Figure 8
Existing Average Daily Traffic Volumes

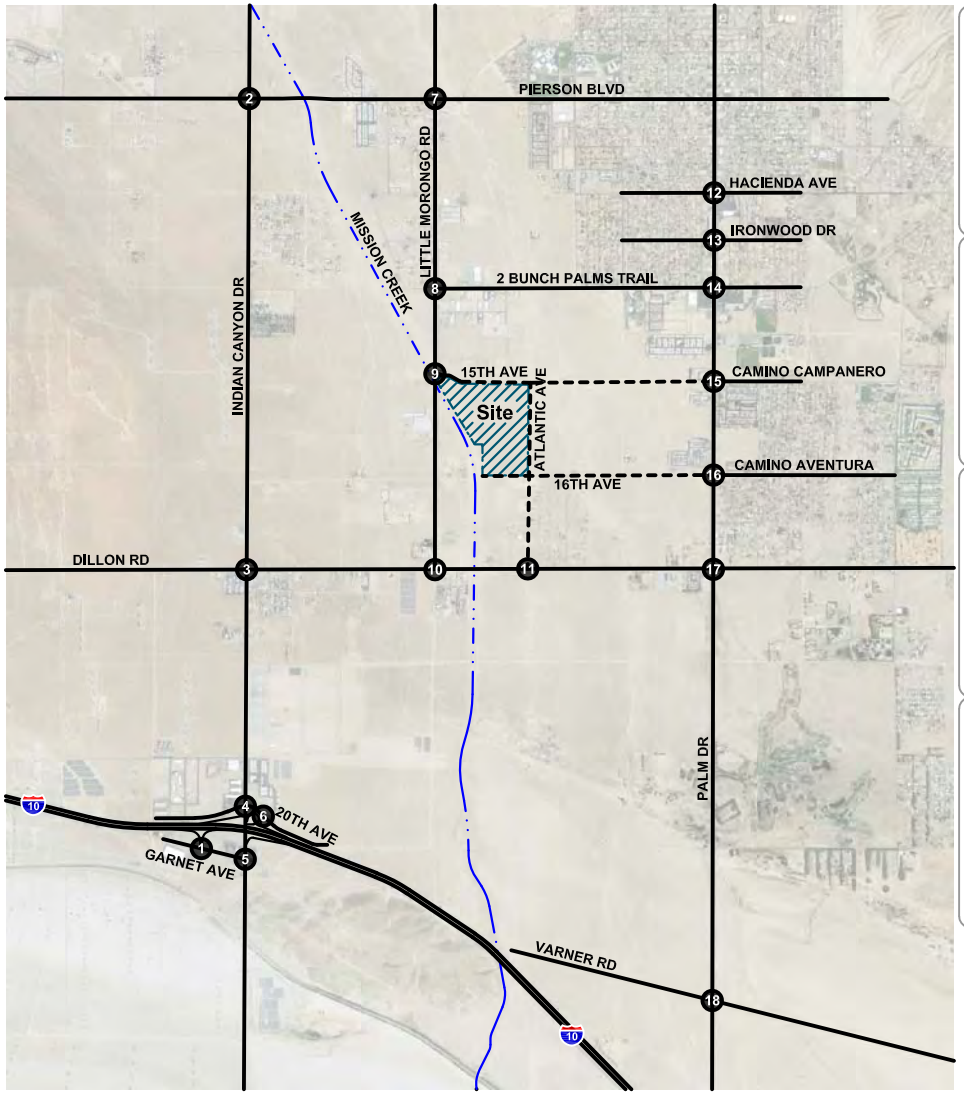


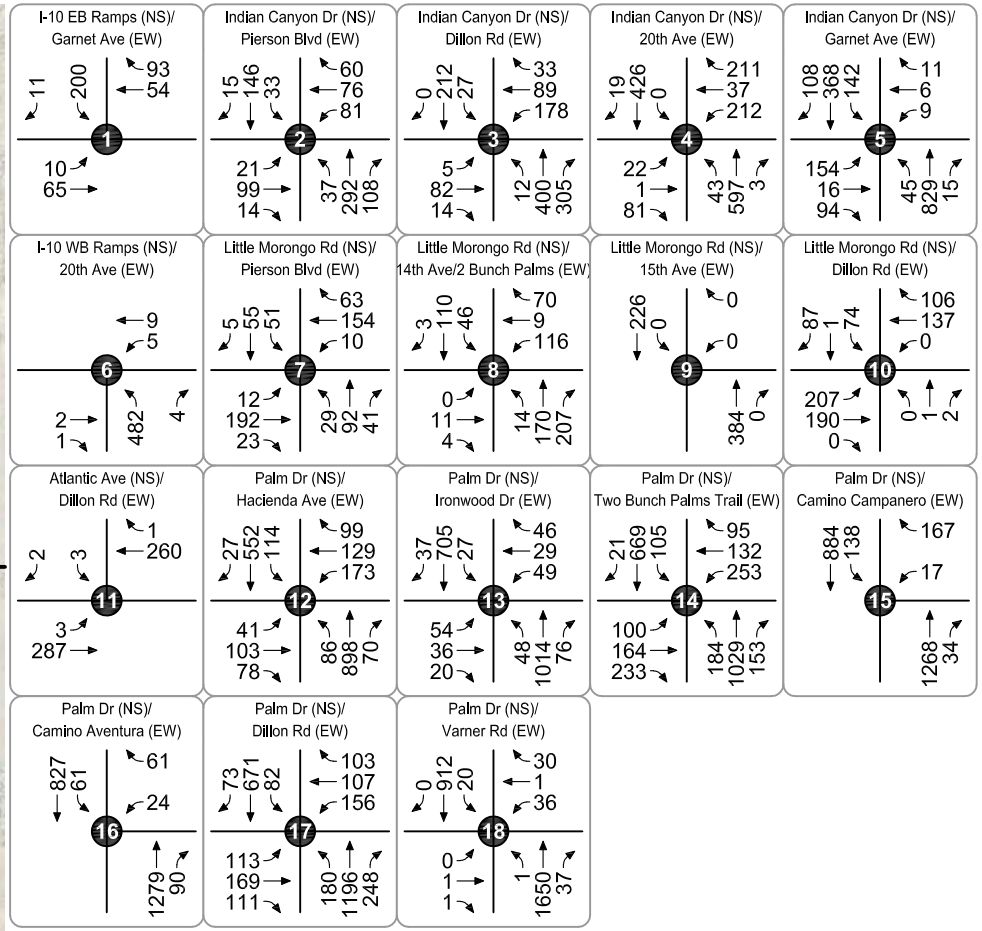


Legend

(#) Study Intersection

Figure 9
Existing AM Peak Hour Intersection Turning Movement Volumes





Legend

(#) Study Intersection

Figure 10
Existing PM Peak Hour Intersection Turning Movement Volumes

4. PROJECT TRIP FORECASTS

This section describes how project trip generation, trip distribution, and trip assignment forecasts were developed. The forecast project volumes are illustrated on figures contained in this section.

PROJECT TRIP GENERATION

The project site is located east of Little Morongo Road between 15th Avenue and 16th Avenue in the City of Desert Hot Springs. The project site is proposed to include various industrial uses. The project site has a zoning designation of light industrial (I-L) use in the City of Desert Hot Springs General Plan. The applicant will be obtaining a Master Conditional Use Permit for cannabis activities including cultivation, extraction, processing, manufacturing, distribution and potentially, sales. The project site is proposed to consist of 364,180 square feet of general light industrial use and 767,770 square feet of industrial park (cannabis activity) use.

Table 2 shows the project trip generation based upon trip generation rates obtained from the Institute of Transportation Engineers, Trip Generation Manual, 10th Edition, 2017. Trip generation rates were determined for daily trips, morning peak hour inbound and outbound trips, and evening peak hour inbound and outbound trips for the proposed land uses. The number of trips forecast to be generated by the proposed project are determined by multiplying the trip generation rates by the land use quantities. For General Light Industrial uses, the vehicle mix assumption is based on the City of Fontana, Truck Trip Generation Study, April 2003. For cannabis activity (Industrial Park) traffic, 5% of the vehicle mix is assumed to be 2-axle trucks used for delivery. The project-generated truck trips were converted to Passenger Car Equivalent (PCE) trips.

For the proposed cannabis activity (including cultivation, extraction, testing and other support services), the total number of employees is estimated based on one employee per 2,000 square feet of building area. This employee-to-square footage ratio is consistent with the operational assumptions of similar cannabis projects. Since cannabis activity will require significantly less employees per square feet of building area than typical industrial uses, it is more appropriate to forecast the project traffic based on number of employees rather than based on building square footage of an industrial park.

As shown in Table 2, the proposed project is forecast to generate a total of approximately 3,665 daily PCE trips, including 531 PCE trips during the morning peak hour and 490 PCE trips during the evening peak hour.

PROJECT TRIP DISTRIBUTION AND ASSIGNMENT

Figure 11 shows the forecast directional outbound and inbound distribution patterns for the project generated trips. The project trip distribution patterns are based on review of existing volume data, surrounding land uses, designated truck routes, and the local and regional roadway facilities in the project vicinity. The primary access for the project site is though 15th Avenue at Little Morongo Road. The secondary emergency-only access is through Atlantic Avenue to Dillon Road.

Based on the identified project trip generation and distributions, project average daily traffic volumes have been calculated and shown on Figure 12. Project morning and evening peak hour intersection turning movement volumes expected from the project are depicted on Figure 13 and Figure 14, respectively.

PROJECT DESIGN FEATURES

This analysis assumes the following improvements will be constructed by the project to provide project site access:

Little Morongo Road at 15th Street (Intersection #9)

- Install a traffic signal.
- Provide a southbound left turn lane.
- Provide a westbound left turn lane.
- Provide a westbound right turn lane.

The project should provide a secondary emergency-only access to the south of the project site to Atlantic Avenue.

Table 2
Project Trip Generation

Trip Generation Rates										
Project				AM Peak			PM Peak			Daily
No.	Land Use	Code[1]	Unit[2]	In%	Out%	Total	In%	Out%	Total	
1	General Light Industrial	ITE 110	TSF	88%	12%	0.700	13%	87%	0.630	4.960
2	78.60% Passenger Cars (PCE[3] = 1.0)	78.60%	1.0	88%	12%	0.550	13%	87%	0.495	3.899
3	8.00% 2-Axle Trucks (PCE[3] = 1.5)	8.00%	1.5	88%	12%	0.084	13%	87%	0.076	0.595
4	3.90% 3-Axle Trucks (PCE[3] = 2.0)	3.90%	2.0	88%	12%	0.055	13%	87%	0.049	0.387
5	9.50% 4-Axle Trucks (PCE[3] = 3.0)	9.50%	3.0	88%	12%	0.200	13%	87%	0.180	1.414
6	Industrial Park (Cannabis Activity)	ITE 130	EMP	86%	14%	0.440	20%	80%	0.420	2.910
7	95.00% Passenger Cars (PCE[3] = 1.0)	95.00%	1.0	86%	14%	0.418	20%	80%	0.399	2.765
8	5.00% 2-Axle Trucks (PCE[3] = 1.5)	5.00%	1.5	86%	14%	0.033	20%	80%	0.032	0.218

Trips Generated									
Project			AM Peak			PM Peak			Daily
No.	Land Use	Quantity[2]	In	Out	Total	In	Out	Total	
A	General Light Industrial	364.180 TSF							
	78.60% Passenger Cars (PCE[3] = 1.0)		176	24	200	23	157	180	1,420
	8.00% 2-Axle Trucks (PCE[3] = 1.5)		27	4	31	4	24	28	217
	3.90% 3-Axle Trucks (PCE[3] = 2.0)		17	3	20	2	16	18	141
	9.50% 4-Axle Trucks (PCE[3] = 3.0)		64	9	73	8	57	65	515
	Total Trips - General Light Industrial		284	40	324	37	254	291	2,293
B	Industrial Park (Cannabis Activity)	460 EMP[4]							
	95.00% Passenger Cars (PCE[3] = 1.0)		165	27	192	37	147	184	1,272
	5.00% 2-Axle Trucks (PCE[3] = 1.5)		13	2	15	3	12	15	100
	Total Trips - Industrial Park (Cannibis Activity)		178	29	207	40	159	199	1,372
Total Project Car PCE Trips			341	51	392	60	304	364	2,692
Total Project Truck PCE Trips			121	18	139	17	109	126	973
Overall Total Project PCE Trips			462	69	531	77	413	490	3,665

Notes:

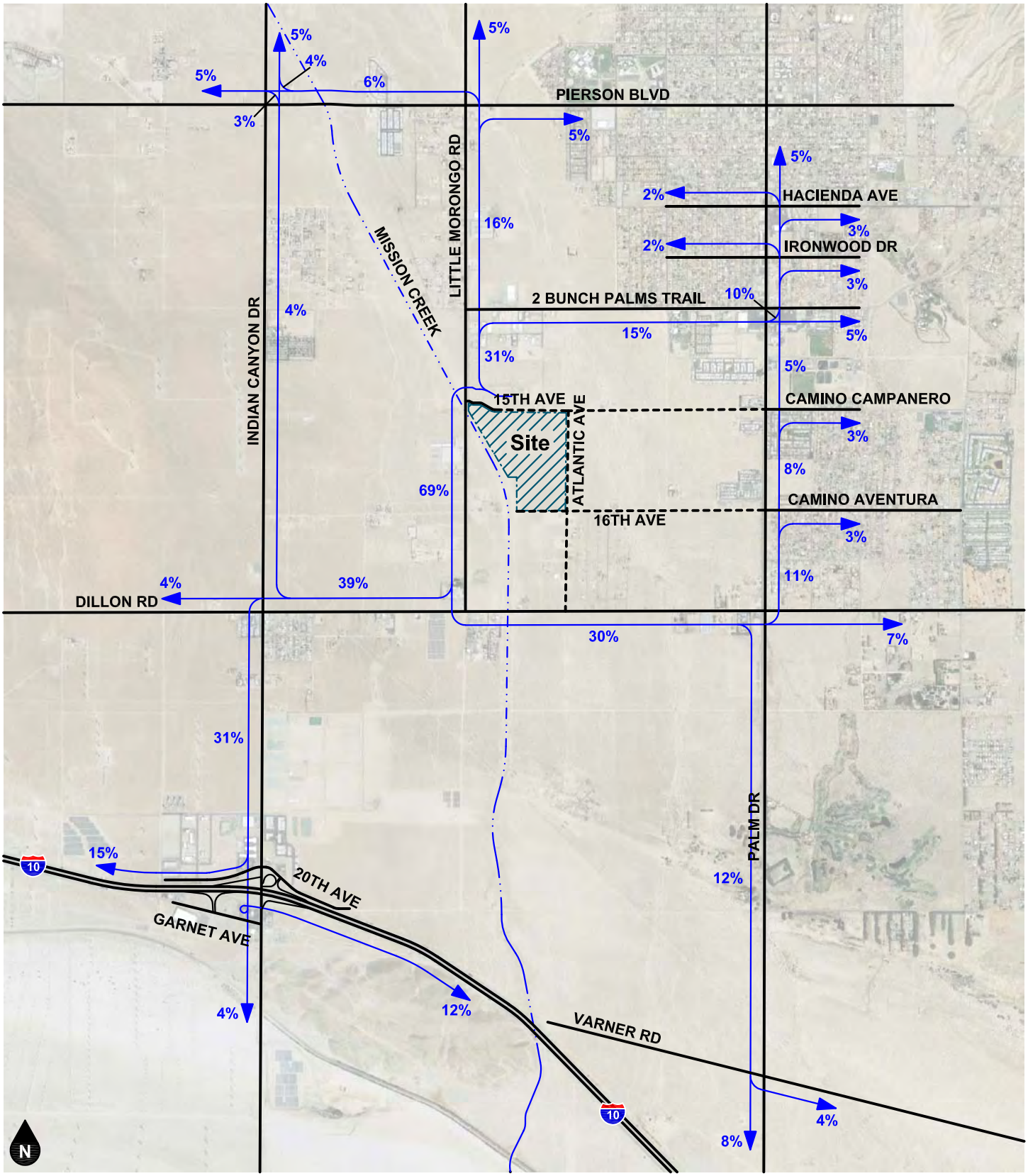
(1) Institute of Transportation Engineers, Trip Generation Manual, 10th Edition, 2017. General Light Industrial; Industrial Park.

For General Light Industrial traffic, the vehicle mix assumptions is based on the City of Fontana, Truck Trip Generation Study, April 2003. For cannabis activity (Industrial Park) traffic, 5% of the vehicle mix is assumed to be 2-axle trucks used for delivery.

(2) TSF = Thousand Square Feet; EMP = Employees

(3) Passenger Car Equivalence (PCE) rate per San Bernardino Association of Governments (SANBAG) guidelines.

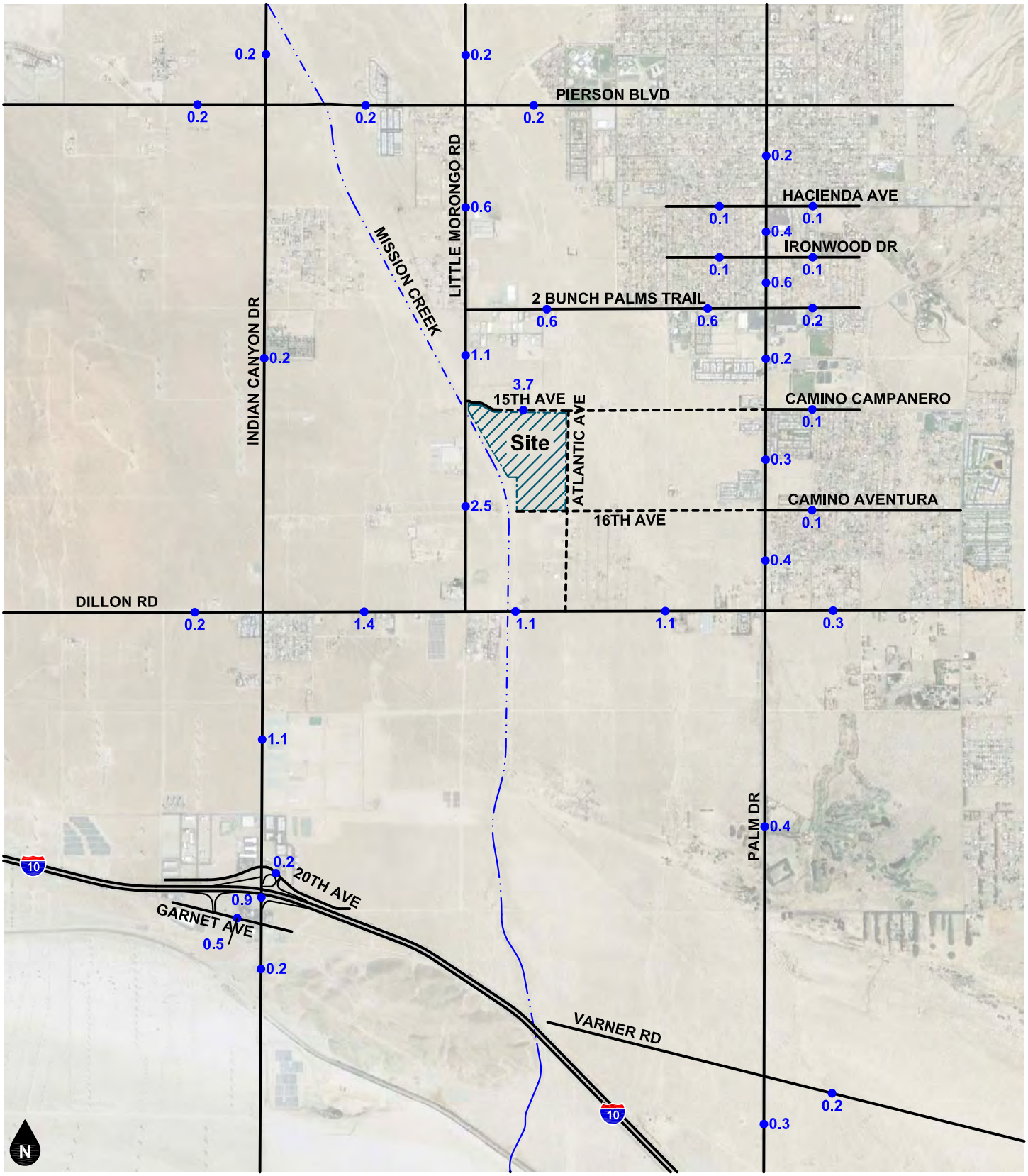
(4) For the proposed cannabis activity (including cultivation, extraction, testing and other support services), the total number of employees is estimated based on one employee per 2,000 square feet of building area. This employee-to-square footage ratio is consistent to other operational assumptions of similar cannabis projects. Since cannabis activity will require significantly less employees per square feet of building area than typical industrial activities, it is more appropriate to forecast the project traffic based on number of employees rather than based on building square footage of an industrial park.



Legend

10% Percent To/From Project

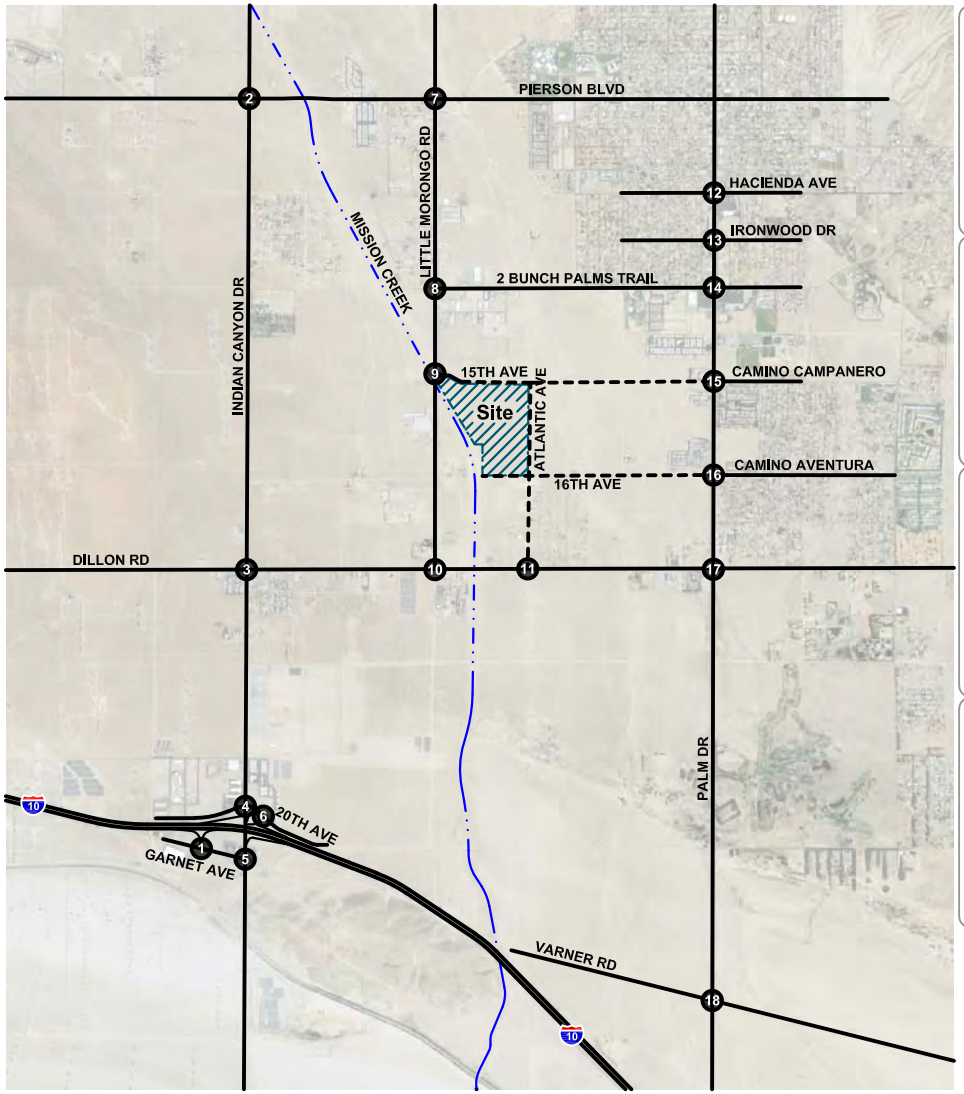
Figure 11
Project Trip Distribution

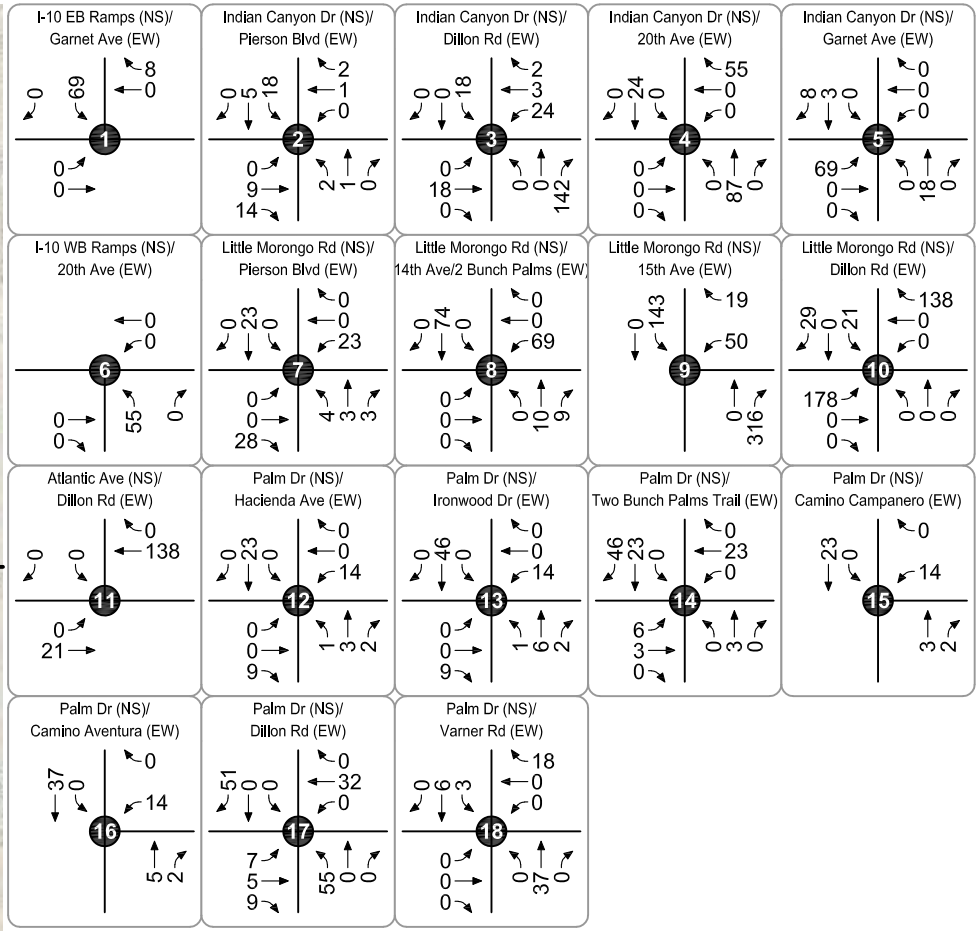


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●## Vehicles Per Day (1,000's)

Figure 12
Project Average Daily Traffic Volumes



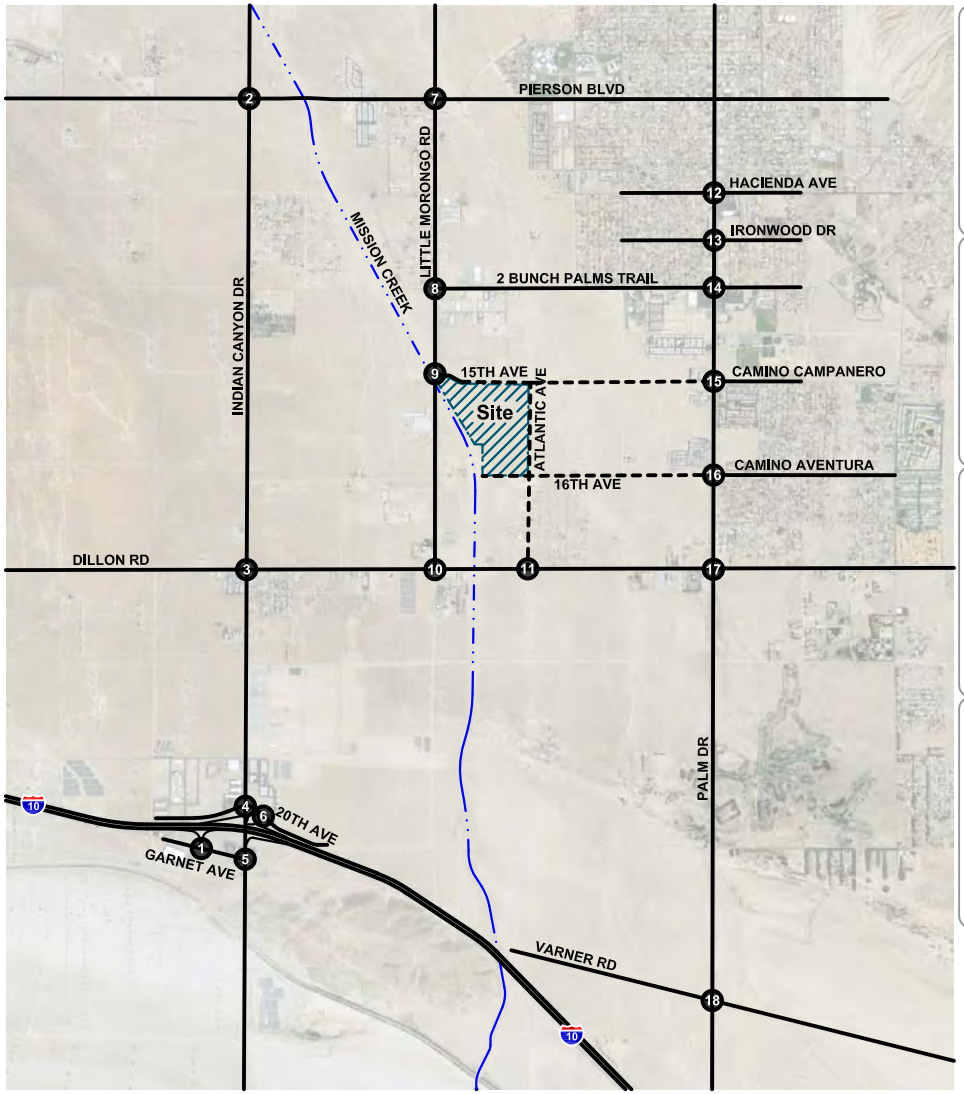


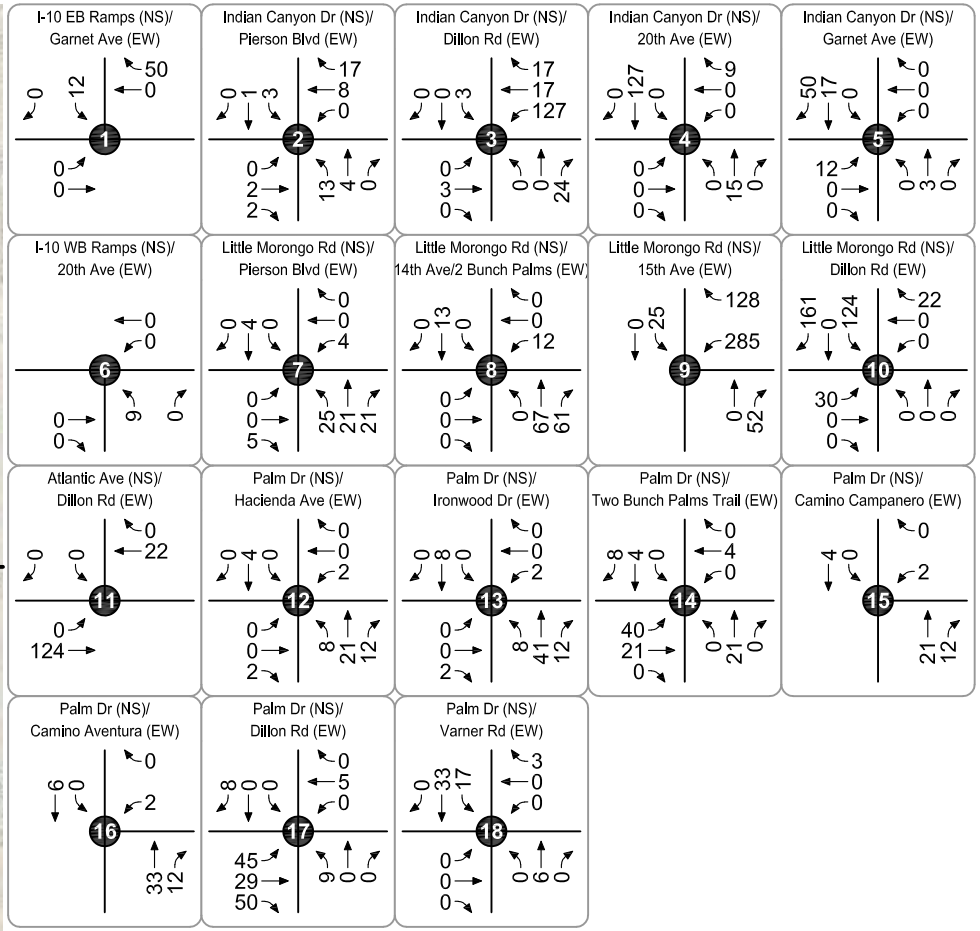
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Legend

(#) Study Intersection

Figure 13
Project AM Peak Hour Intersection Turning Movement Volumes





N

Legend

(#) Study Intersection

Figure 14
Project PM Peak Hour Intersection Turning Movement Volumes

5. FUTURE VOLUME FORECASTS

This section describes how future volume forecasts for each analysis scenario were developed. Forecast study area volumes are illustrated on figures contained in this section.

CUMULATIVE TRIPS

Ambient Growth Rate

To account for ambient growth on roadways, existing roadway volumes were increased by a growth rate of two percent (2%) per year over two years for Opening Year (2021) conditions. This equates to a total growth factor of approximately 1.04. The ambient growth rate was conservatively applied to all movements at the study intersections.

Other Development

To account for trips generated by future development, trips generated by pending or approved other development projects in the City of Desert Hot Springs were added to the study area. Table 3 shows the trip generation summary for other development projects.

Figure 15 shows the forecast average daily traffic volumes for the other development. Figure 16 and Figure 17 show the forecast morning and evening peak hour intersection turning movement volumes for trips generated by other developments.

ANALYSIS SCENARIO VOLUME FORECASTS

Existing Plus Project

Existing Plus Project volume forecasts were derived by adding the project generated trips to Existing volumes. Existing Plus Project average daily traffic volumes are shown on Figure 18. Existing Plus Project morning and evening peak hour intersection turning movement volumes are shown on Figure 19 and Figure 20.

Existing Plus Ambient Plus Project

To develop Existing Plus Ambient Plus Project volume forecasts, Existing Plus Project volumes were combined with ambient growth. Existing Plus Ambient Plus Project average daily traffic volumes are shown on Figure 21. Existing Plus Ambient Plus Project morning and evening peak hour intersection turning movement volumes are shown Figure 22 and Figure 23.

Existing Plus Ambient Plus Project Plus Cumulative

Existing Plus Ambient Plus Project Plus Cumulative volume forecasts were developed by adding trips by the other developments to the Existing Plus Ambient Plus Project forecast. Existing Plus Ambient Plus Project Plus Cumulative average daily traffic volumes are shown on Figure 24. Existing Plus Ambient Plus Project Plus Cumulative morning and evening peak hour intersection turning movement volumes are shown on Figure 25 and Figure 26.

FUTURE TRAFFIC SIGNAL WARRANT ANALYSIS

The need for traffic control signals at the unsignalized study intersections have been evaluated using the California Department of Transportation Warrant 3 Peak Hour traffic signal warrant analysis, as specified in

the California Manual of Uniform Traffic Control Devices (2014 Update). Traffic signal warrant analysis worksheets are provided in Appendix E.

Existing Plus Project

Traffic signal warrants are satisfied at the following additional study intersection for Existing Plus Project conditions, in addition to those already satisfy the warrants for Existing conditions:

- Little Morongo Road/15th Avenue – #9

Existing Plus Ambient Plus Cumulative Plus Project

Traffic signal warrants are satisfied at the following additional study intersections for Existing Plus Ambient Plus Cumulative Plus Project conditions, in addition to those already satisfied for prior conditions:

- Little Morongo Road/Pierson Boulevard – #7

Table 3 (1 of 2)

Other Development Trip Generation

ID	Project Name	Quantity	Units[1]	Trips Generated							
				Source[2]	AM Peak Hour			PM Peak Hour			Daily
					In	Out	Total	In	Out	Total	
	Trip Generation Rates										
	Cultivation Facility	1.000	TSF	ITE 150	0.23	0.07	0.30	0.05	0.04	0.19	1.74
	Hotel	1.000	TSF	ITE 310	0.28	0.19	0.47	0.31	0.29	0.60	8.36
	Supermarket	1	Rooms	ITE 850	2.29	1.53	3.82	4.71	4.53	9.24	106.78
	Trips Generated										
1	CUP 02-15 & DA 06-15	180.900	TSF	ITE 150	42	12	54	9	25	34	315
2	CUP 03-15 & DA 04-15	1001.000	TSF	ITE 150	231	69	300	51	139	190	1,742
3	CUP 04-15 & DA 02-15	381.053	TSF	ITE 150	88	26	114	20	52	72	663
4	CUP 06-15 & DA 05-15	23.250	TSF	ITE 150	5	2	7	1	3	4	40
5	CUP 08-15 & DA 07-15	1.800	TSF	ITE 150	0	1	1	0	0	0	3
6	CUP 09-15 & DA 07-15	36.000	TSF	ITE 150	8	3	11	2	5	7	63
7	CUP 10-15	40.000	TSF	ITE 150	9	3	12	2	6	8	70
8	CUP 01-16 & DA 01-16	36.000	TSF	ITE 150	8	3	11	2	5	7	63
9	CUP 02-16	9.600	TSF	ITE 150	2	1	3	0	2	2	17
10	CUP 03-16	5.038	TSF	ITE 150	1	1	2	0	1	1	9
11	CUP 04-16 & DA 02-16	41.000	TSF	ITE 150	9	3	12	2	6	8	71
12	CUP 05-16 & DA 08-16	45.360	TSF	ITE 150	10	4	14	2	7	9	79
13	CUP 06-16	45.360	TSF	ITE 150	10	4	14	2	7	9	79
14	CUP 07-16	23.070	TSF	ITE 150	5	2	7	1	3	4	40
15	CUP 08-16	4.912	TSF	ITE 150	1	0	1	0	1	1	9
16	CUP 09-16	125.000	TSF	ITE 150	29	9	38	6	18	24	218
17	CUP 10-16	62.994	TSF	ITE 150	15	4	19	3	9	12	110
18	CUP 11-16 & DA 04-16	30.550	TSF	ITE 150	7	2	9	2	4	6	53
19	CUP 12-16 & DA 06-16	312.324	TSF	ITE 150	72	22	94	16	43	59	543
20	CUP 13-16	6.600	TSF	ITE 150	2	0	2	0	1	1	11
21	CUP 14-16	45.000	TSF	ITE 150	10	4	14	2	7	9	78
22	CUP 15-16	9.864	TSF	ITE 150	2	1	3	1	1	2	17
23	CUP 16-16 & DA 11-16	50.208	TSF	ITE 150	12	3	15	3	7	10	87
24	CUP 17-16 DA 12-16	50.208	TSF	ITE 150	12	3	15	3	7	10	87
25	CUP 18-16	36.000	TSF	ITE 150	8	3	11	2	5	7	63
26	CUP 19-16	36.000	TSF	ITE 150	8	3	11	2	5	7	63
27	CUP 20-16/DA	224.435	TSF	ITE 150	52	15	67	12	31	43	391
28	CUP 23-16 & DA 15-16	57.907	TSF	ITE 150	13	4	17	3	8	11	101
29	CUP 25-16	29.193	TSF	ITE 150	7	2	9	1	5	6	51
30	CUP 26-16 & DA 17-16	50.210	TSF	ITE 150	12	3	15	3	7	10	87
31	CUP 27-16	36.218	TSF	ITE 150	8	3	11	2	5	7	63
32	CUP 28-16	16.288	TSF	ITE 150	4	1	5	1	2	3	28
33	CUP 29-16	69.000	TSF	ITE 150	16	5	21	4	9	13	120
34	CUP 30-16	12.000	TSF	ITE 150	3	1	4	1	1	2	21

Table 3 (2 of 2)

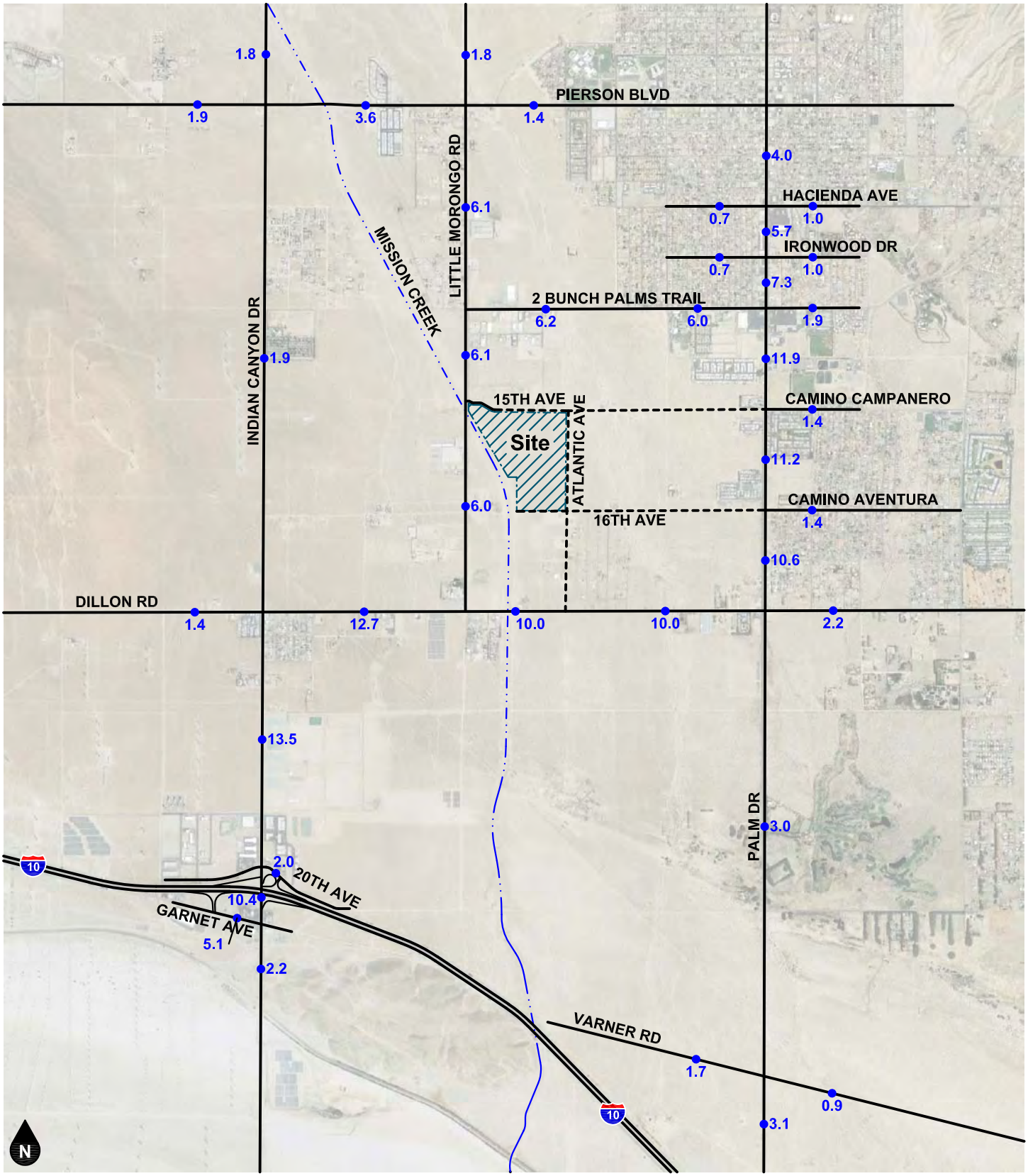
Other Development Trip Generation

ID	Project Name	Quantity	Units[1]	Source[2]	Trips Generated						
					AM Peak Hour			PM Peak Hour			
					In	Out	Total	In	Out	Total	Daily
35	CUP 01-17	20.664	TSF	ITE 150	5	1	6	1	3	4	36
36	CUP 02-17	621.920	TSF	ITE 150	144	43	187	32	86	118	1,082
37	CUP 03-17	22.000	TSF	ITE 150	5	2	7	1	3	4	38
38	CUP 05-17	35.320	TSF	ITE 150	8	3	11	2	5	7	61
39	CUP 06-17	86.700	TSF	ITE 150	20	6	26	4	12	16	151
40	CUP 07-17 & DA 05-17	63.446	TSF	ITE 150	15	4	19	3	9	12	110
41	CUP 08-17 & DA 06-17	50.976	TSF	ITE 150	12	3	15	3	7	10	89
42	CUP 09-17 & DA 07-17	8.389	TSF	ITE 150	2	1	3	0	2	2	15
43	CUP 11-17 DA 09-17	35.435	TSF	ITE 150	8	3	11	2	5	7	62
44	CUP 12-17 & DA 10-17	298.576	TSF	ITE 150	69	21	90	15	42	57	520
45	CUP 13-17 & DA 11-17	68.400	TSF	ITE 150	16	5	21	4	9	13	119
46	CUP 15-17	212.000	TSF	ITE 150	49	15	64	11	29	40	369
47	CUP 16-17	123.000	TSF	ITE 150	28	9	37	6	17	23	214
48	CUP 17-17 & DA 07-16	2800.000	TSF	ITE 150	647	193	840	144	388	532	4,872
49	CUP 21-17	6400.000	TSF	ITE 150	1,478	442	1,920	328	888	1,216	11,136
50	CUP 24-17	42.390	TSF	ITE 150	10	3	13	2	6	8	74
51	CUP 25-17	137.030	TSF	ITE 150	32	9	41	7	19	26	238
52	CUP 27-17	39.900	TSF	ITE 150	9	3	12	2	6	8	69
53	CUP 28-17	2152.583	TSF	ITE 150	497	149	646	110	299	409	3,745
54	TTM 37185/SP	1897.799	TSF	ITE 150	438	131	569	97	264	361	3,302
55	CUP 30-17	7.400	TSF	ITE 150	2	0	2	0	1	1	13
56	CUP 31-17	54.886	TSF	ITE 150	13	3	16	3	7	10	96
57	CUP 32-17	2720.640	TSF	ITE 150	628	188	816	140	377	517	4,734
58	CUP 33-17	16.671	TSF	ITE 150	4	1	5	1	2	3	29
59	CUP 34-17	1.400	TSF	ITE 150	0	0	0	0	0	0	2
60	CUP 35-17	32.650	TSF	ITE 150	8	2	10	2	4	6	57
61	CUP 36-17	22.176	TSF	ITE 150	5	2	7	1	3	4	39
62	CUP 37-17	15.542	TSF	ITE 150	4	1	5	1	2	3	27
63	CUP 38-17	33.200	TSF	ITE 150	8	2	10	2	4	6	58
64	CUP 38-17a	33.200	TSF	ITE 150	8	2	10	2	4	6	58
65	CUP 02-18	86	Rooms	ITE 310	24	17	40	26	25	52	719
66	CUP 05-18	270.072	TSF	ITE 850	619	413	1,032	1,273	1,223	2,495	28,838
67	CUP 08-18	429.080	TSF	ITE 150	99	30	129	22	60	82	747
Total Other Development Trips Generated					5,635	1,928	7,563	2,408	4,248	6,656	67,174

Notes:

[1] TSF = Thousand Square Feet

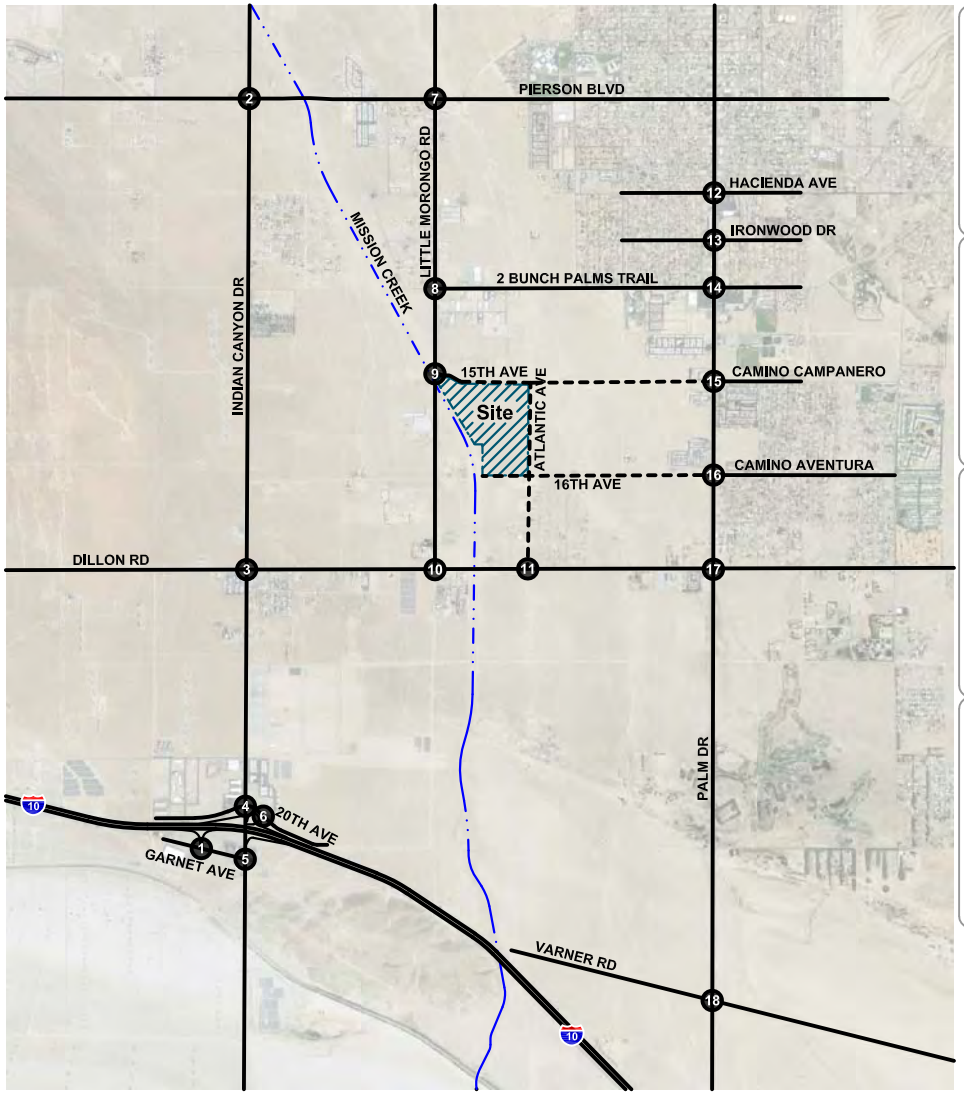
[2] ITE = Institute of Transportation Engineers, Trip Generation Manual, 10th Edition, 2017; ### = Land Use Code

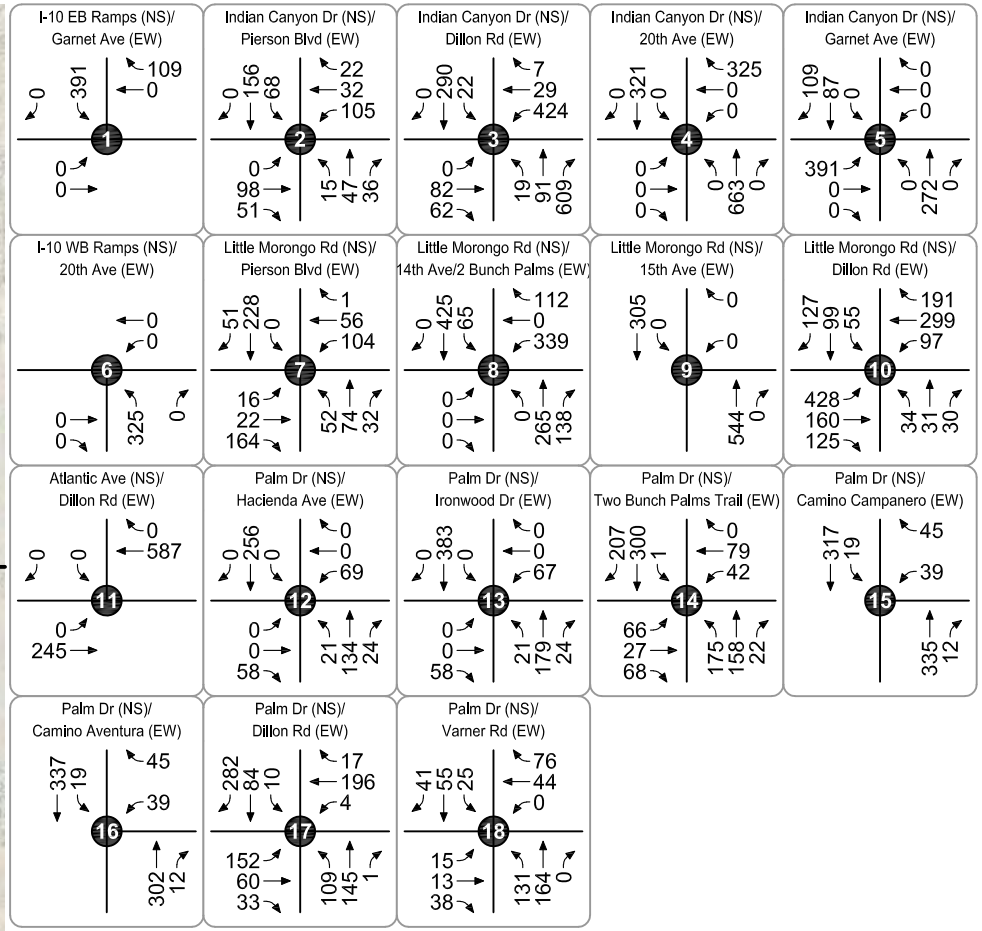


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●## Vehicles Per Day (1,000's)

Figure 15
Other Development Average Daily Traffic Volumes

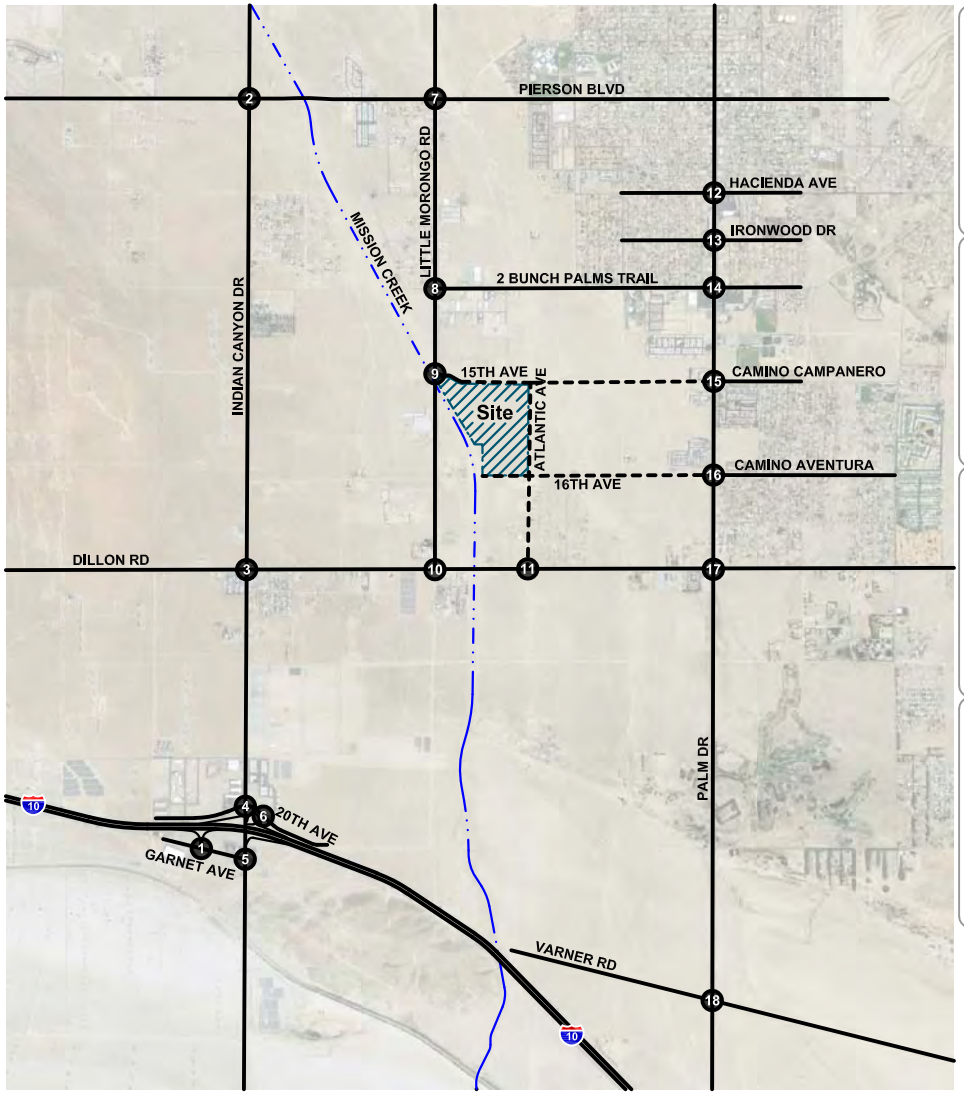




Legend

(#) Study Intersection

Figure 16
Other Development
AM Peak Hour Intersection Turning Movement Volumes

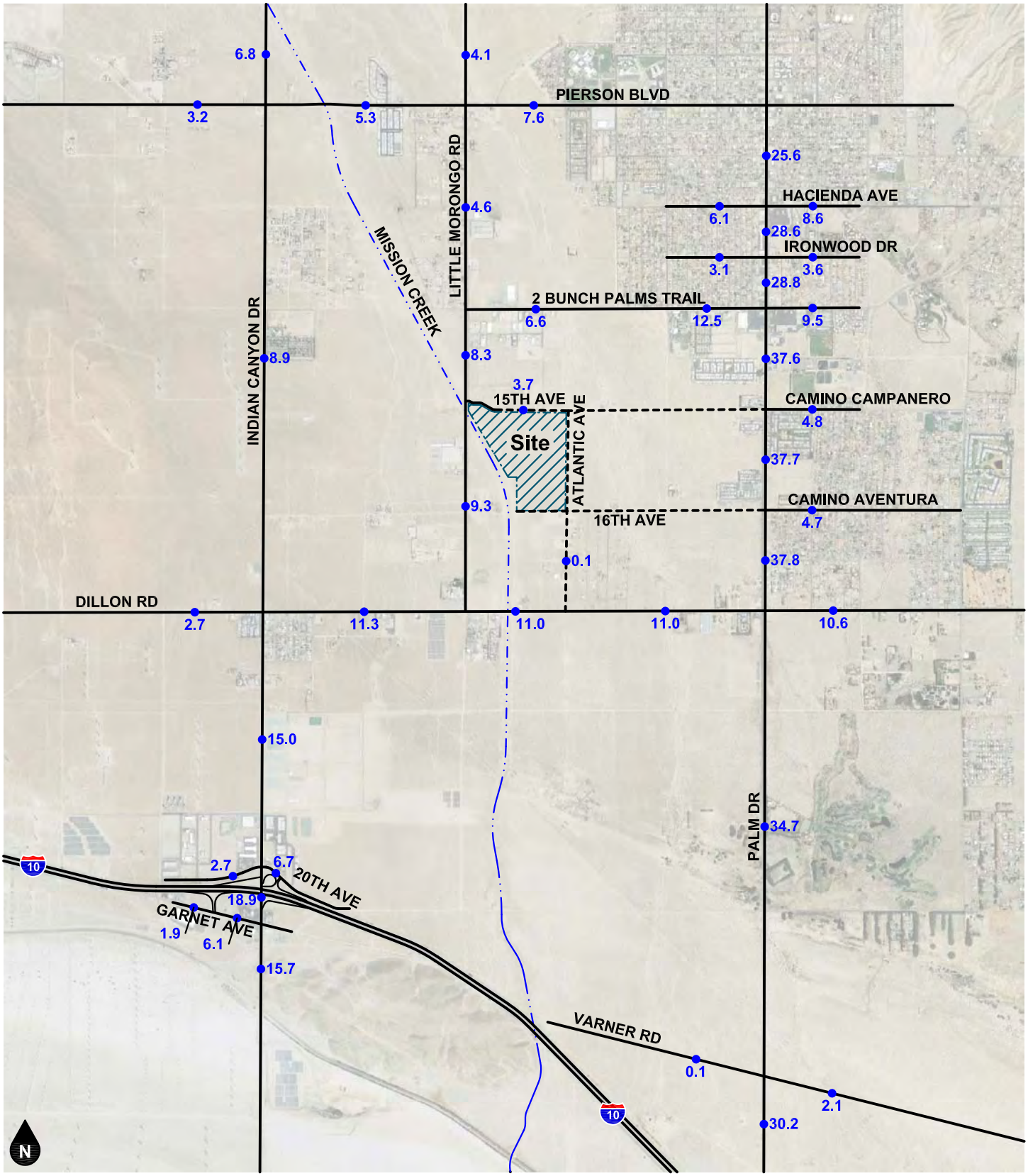


N

Legend

(#) Study Intersection

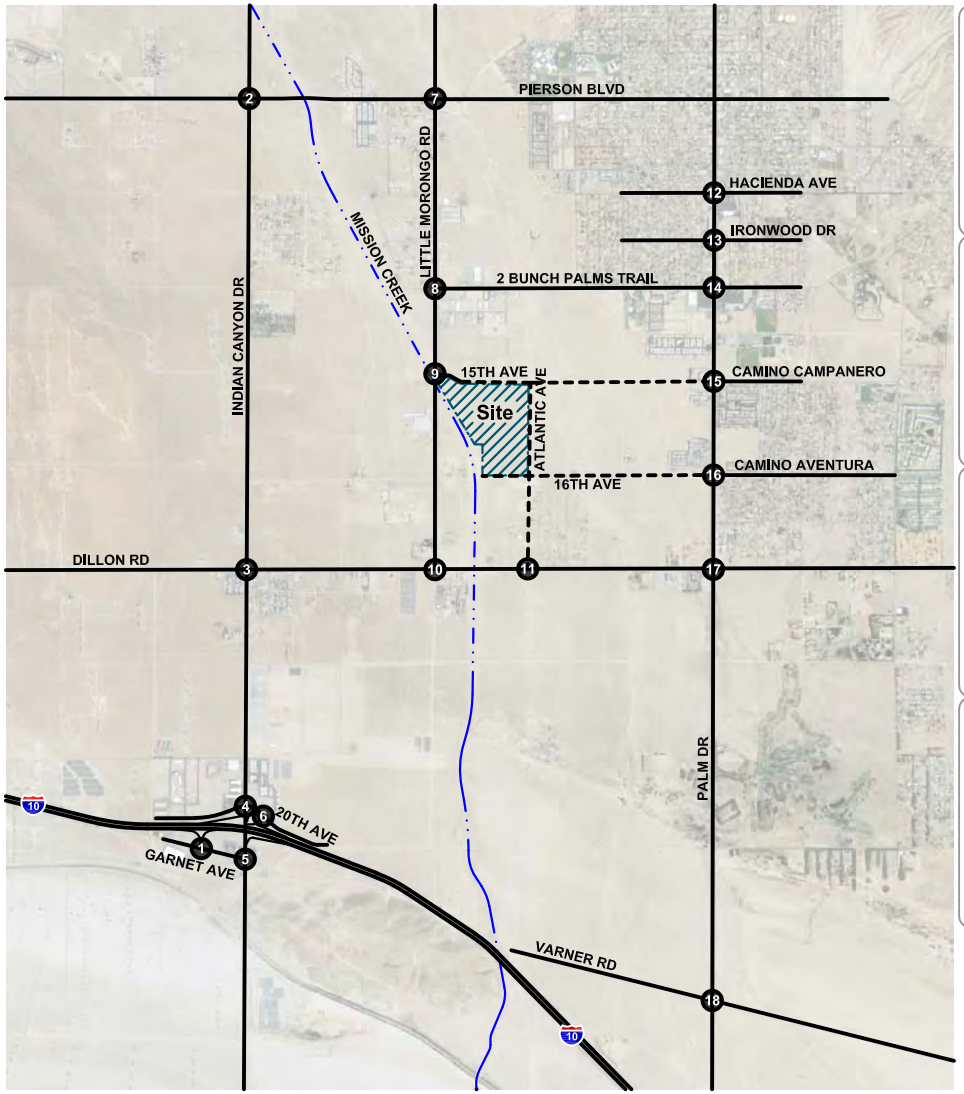
Figure 17
Other Development
PM Peak Hour Intersection Turning Movement Volumes

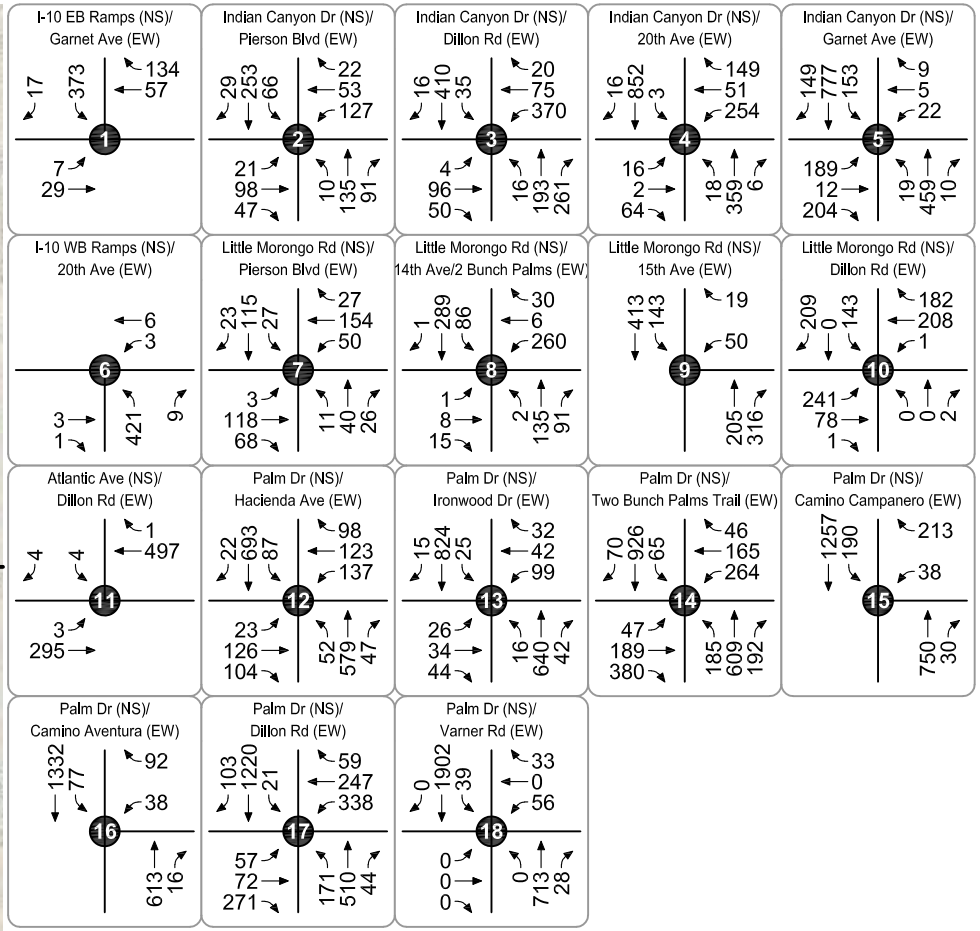


Legend

●## Vehicles Per Day (1,000's)

Figure 18
Existing Plus Project Average Daily Traffic Volumes



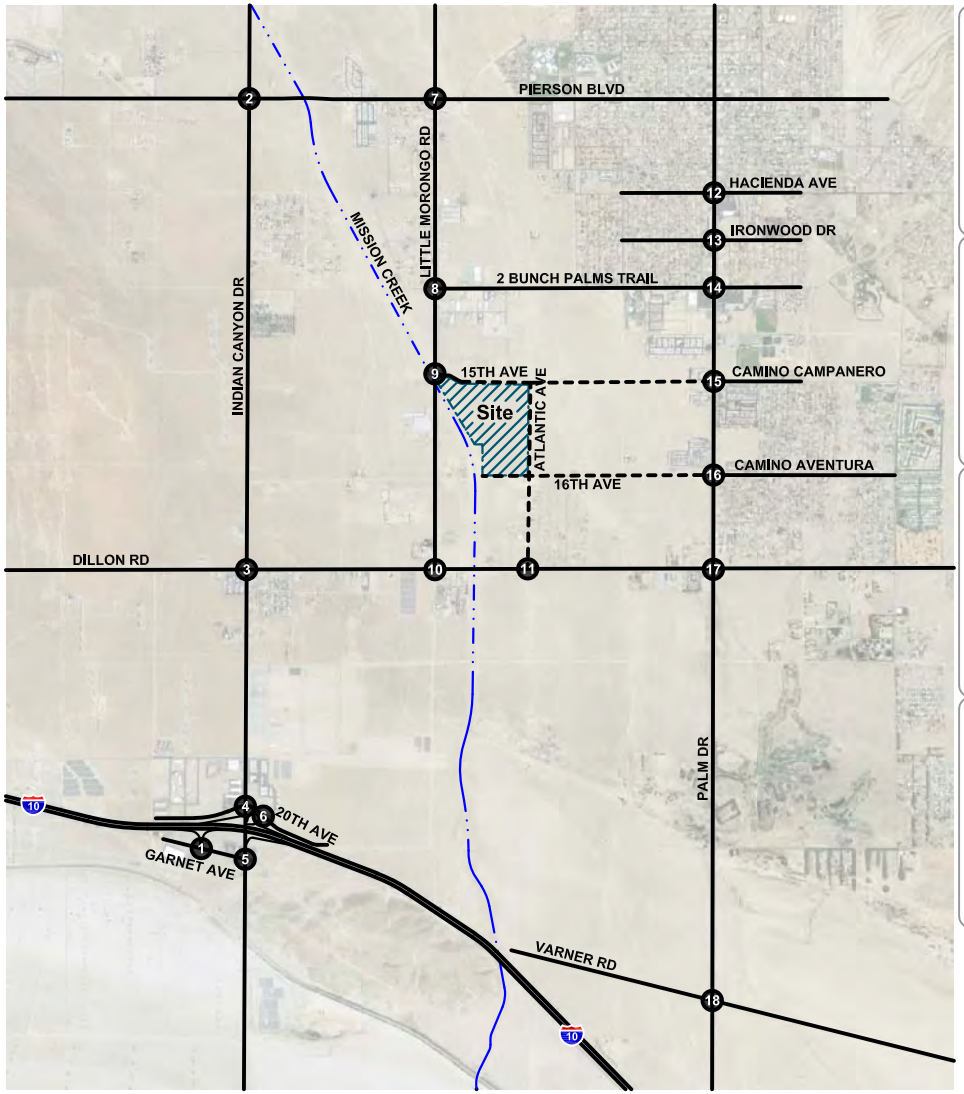


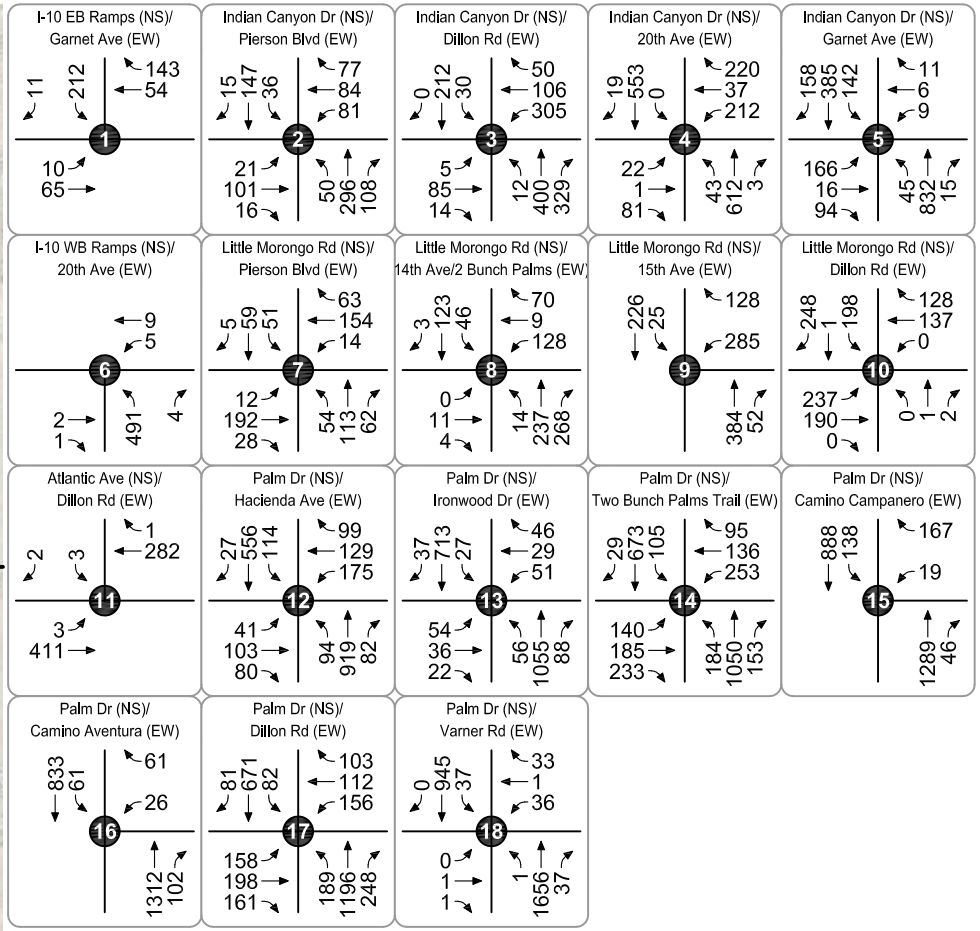
N

Legend

(#) Study Intersection

Figure 19
Existing Plus Project
AM Peak Hour Intersection Turning Movement Volumes

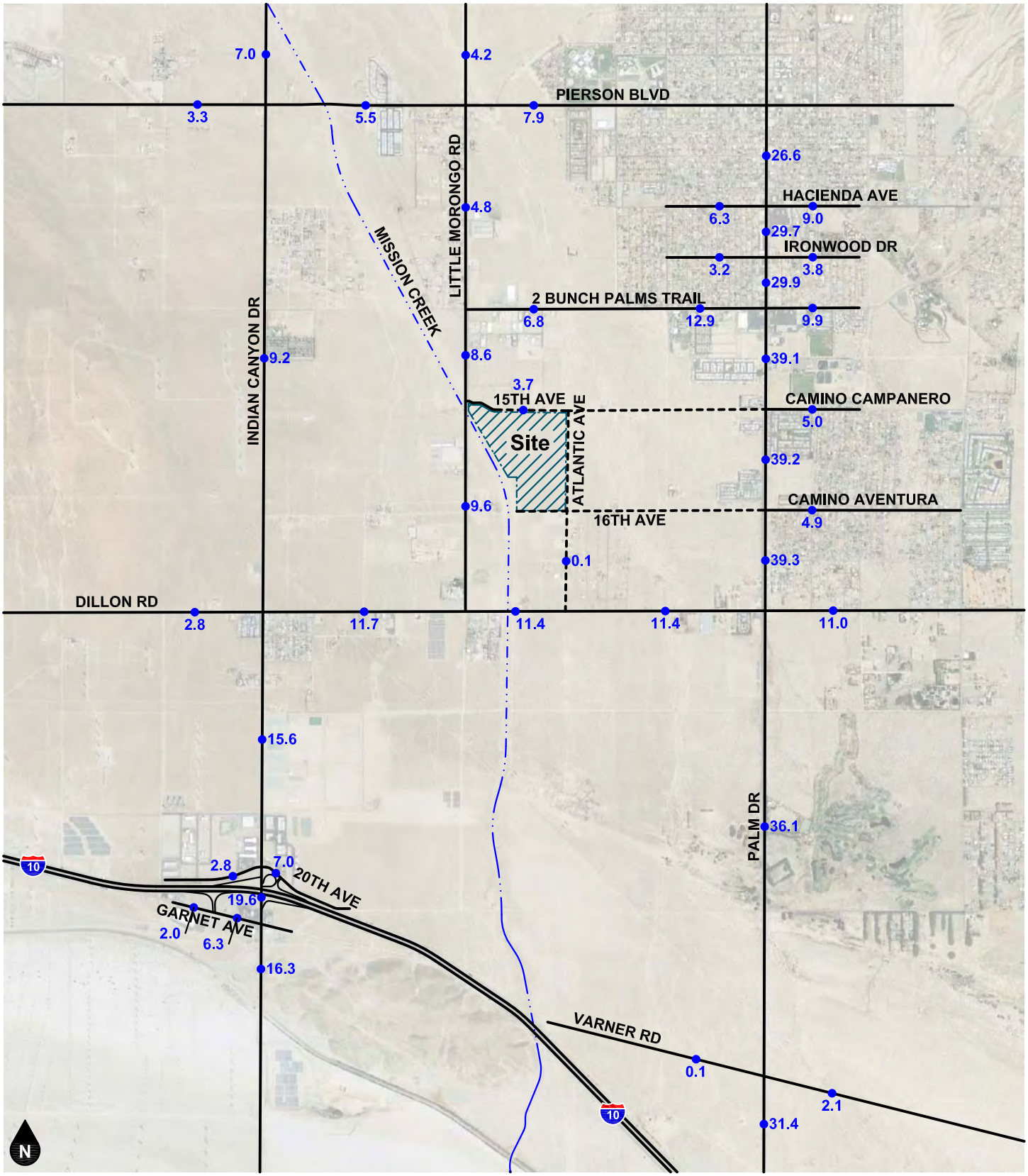




Legend

(#) Study Intersection

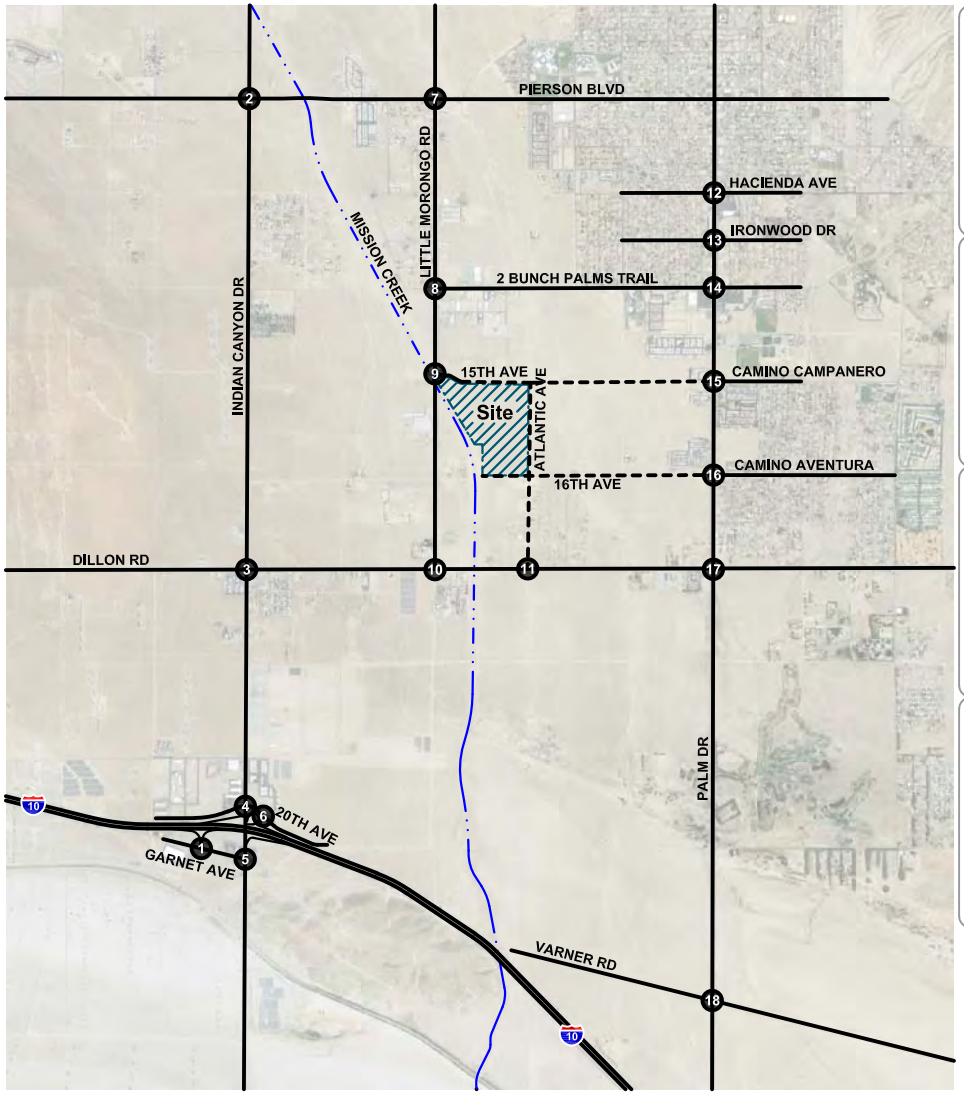
Figure 20
Existing Plus Project
PM Peak Hour Intersection Turning Movement Volumes

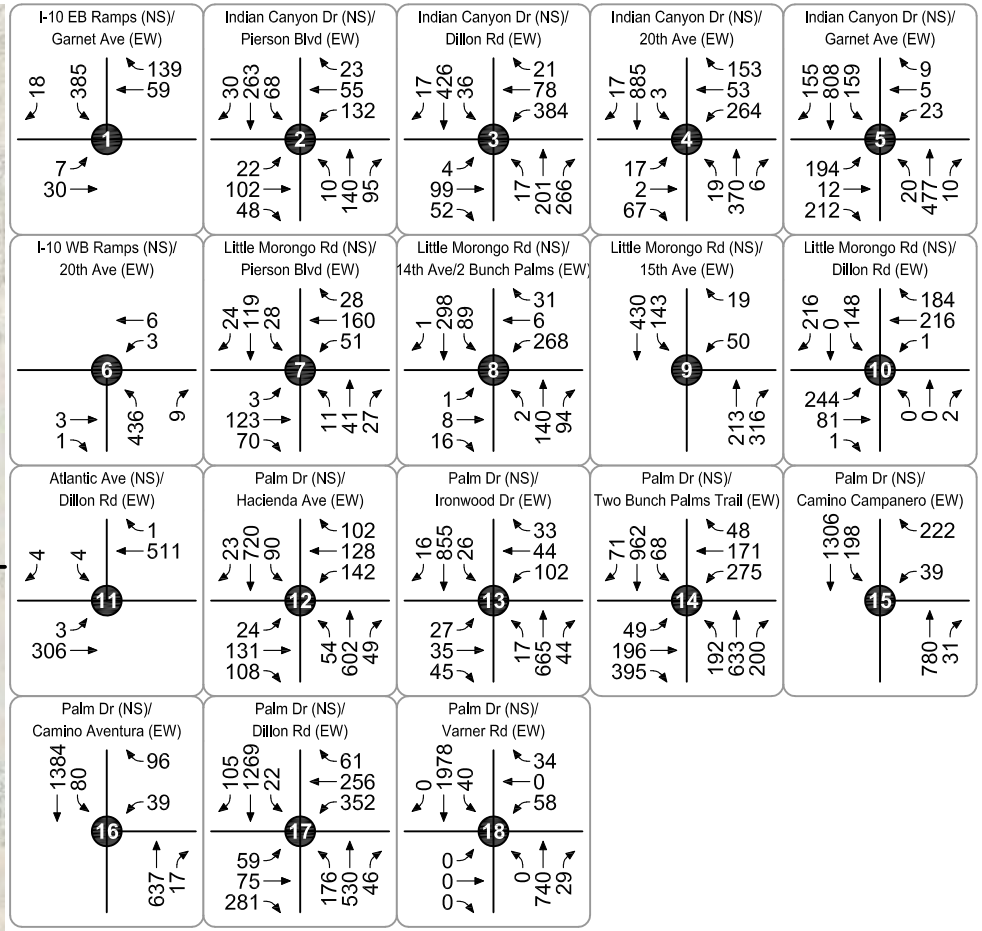


Legend

●## Vehicles Per Day (1,000's)

Figure 21
Existing Plus Ambient Plus Project Average Daily Traffic Volumes

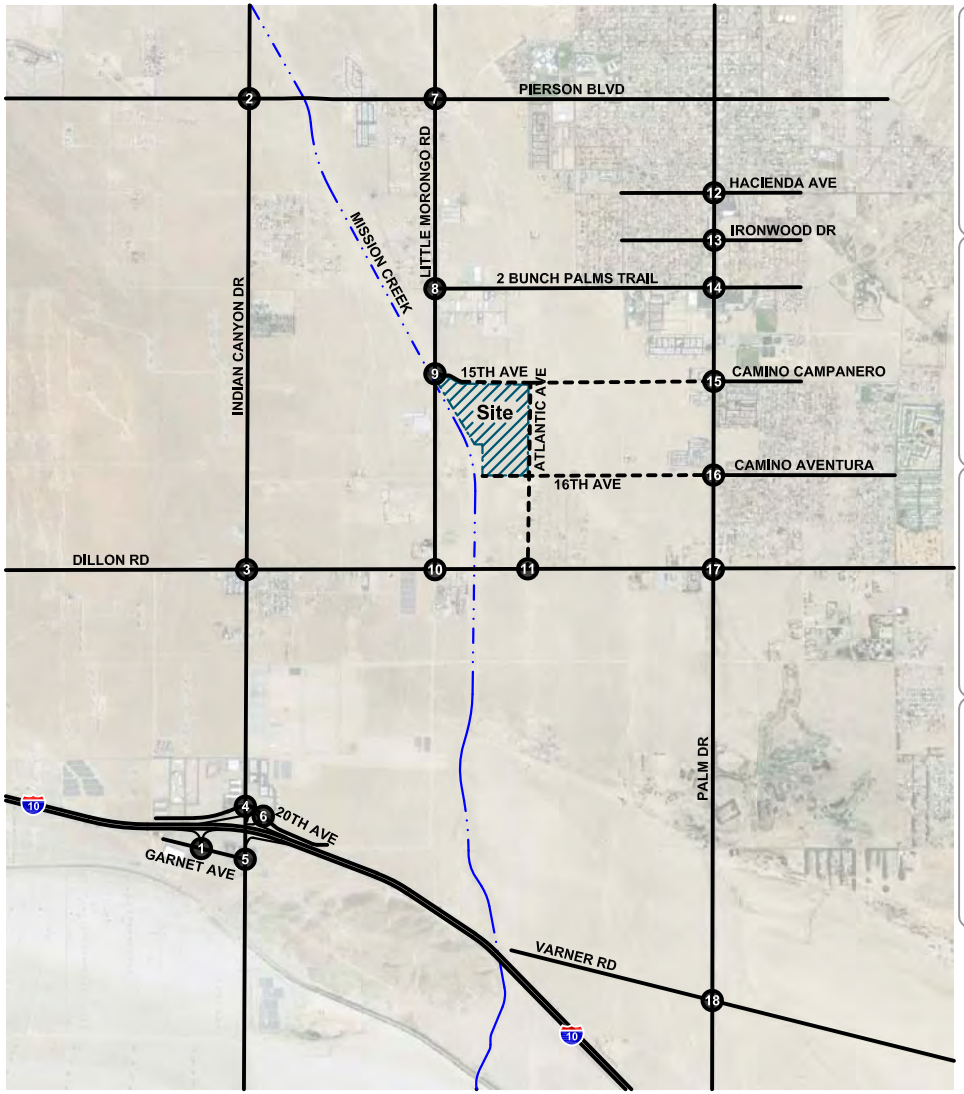




Legend

(#) Study Intersection

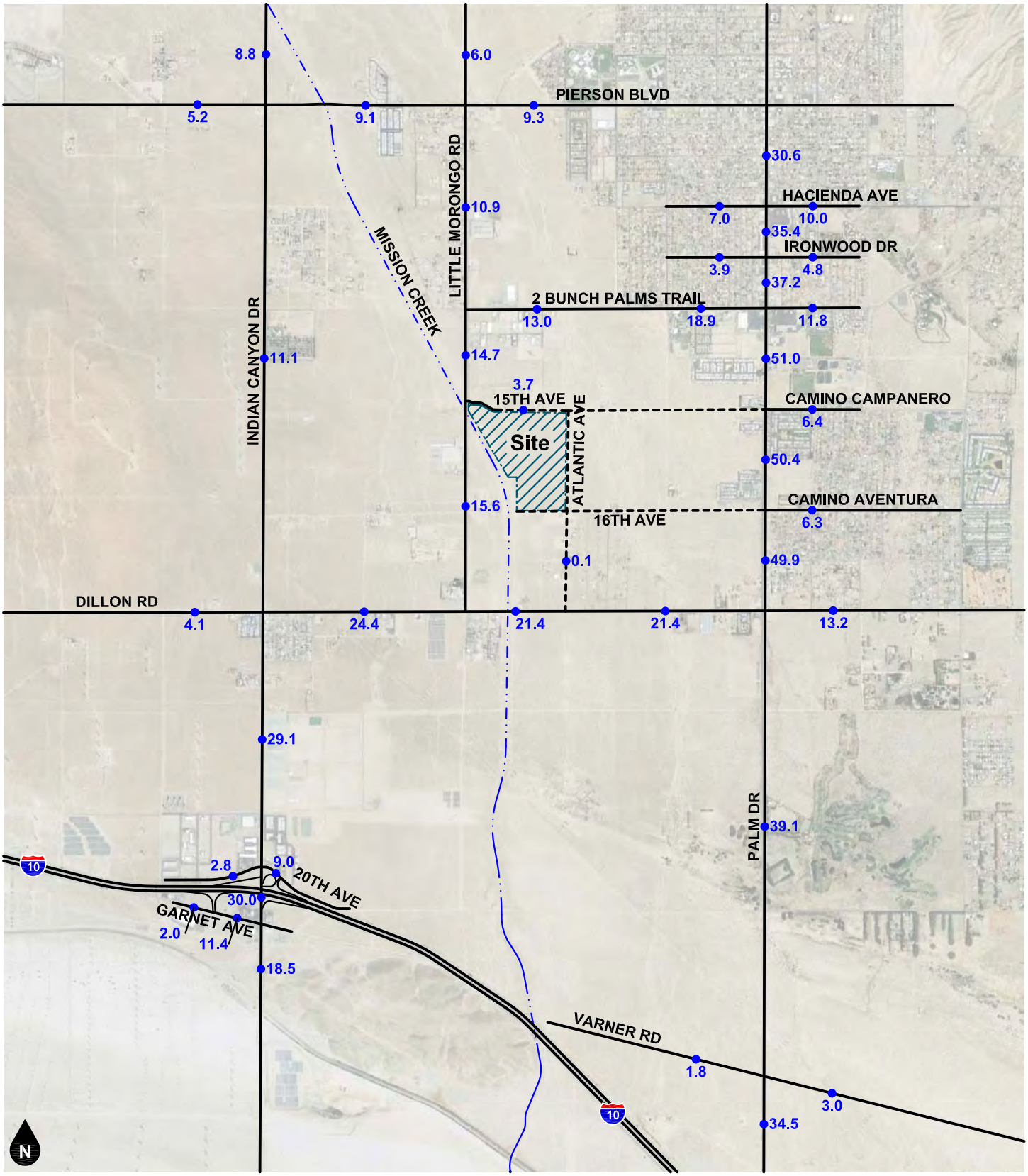
Figure 22
Existing Plus Ambient Plus Project
AM Peak Hour Intersection Turning Movement Volumes



Legend

(#) Study Intersection

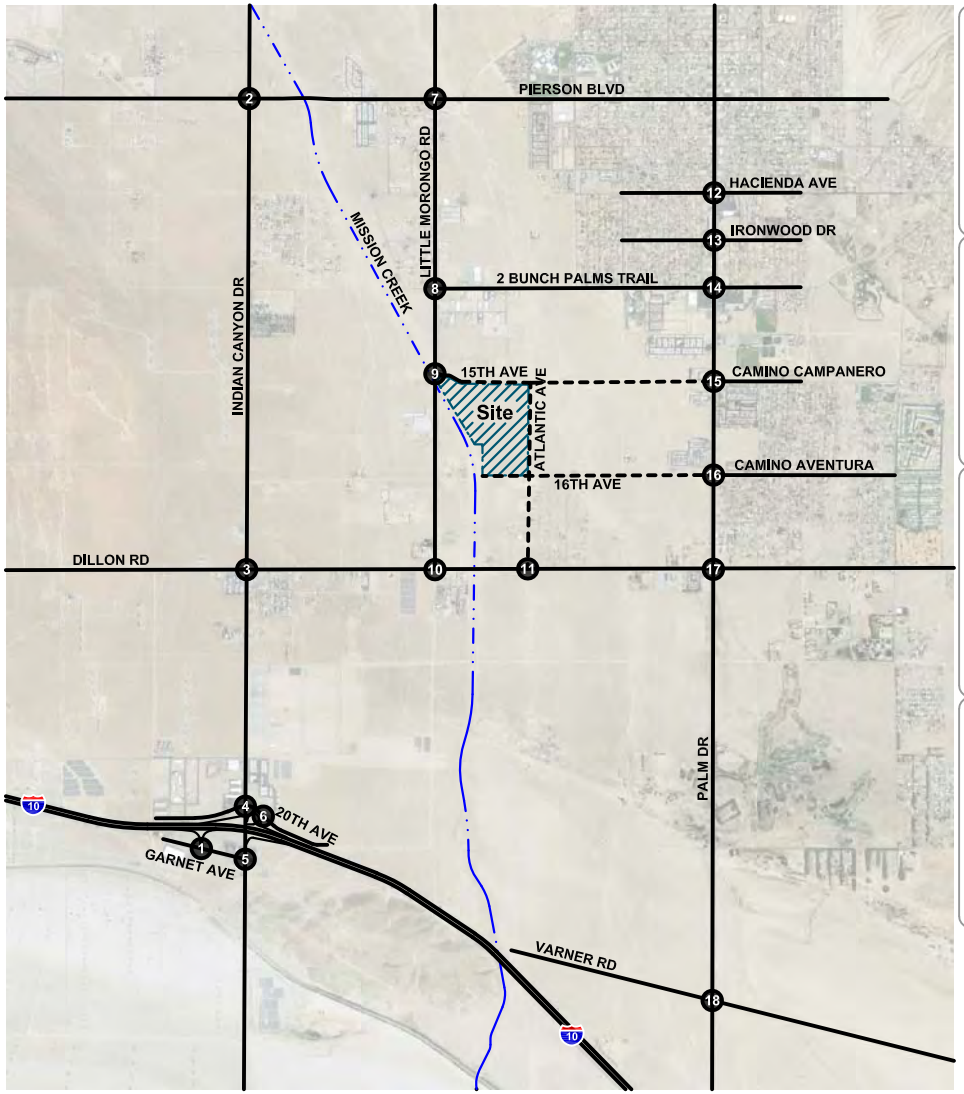
Figure 23
Existing Plus Ambient Plus Project
PM Peak Hour Intersection Turning Movement Volumes

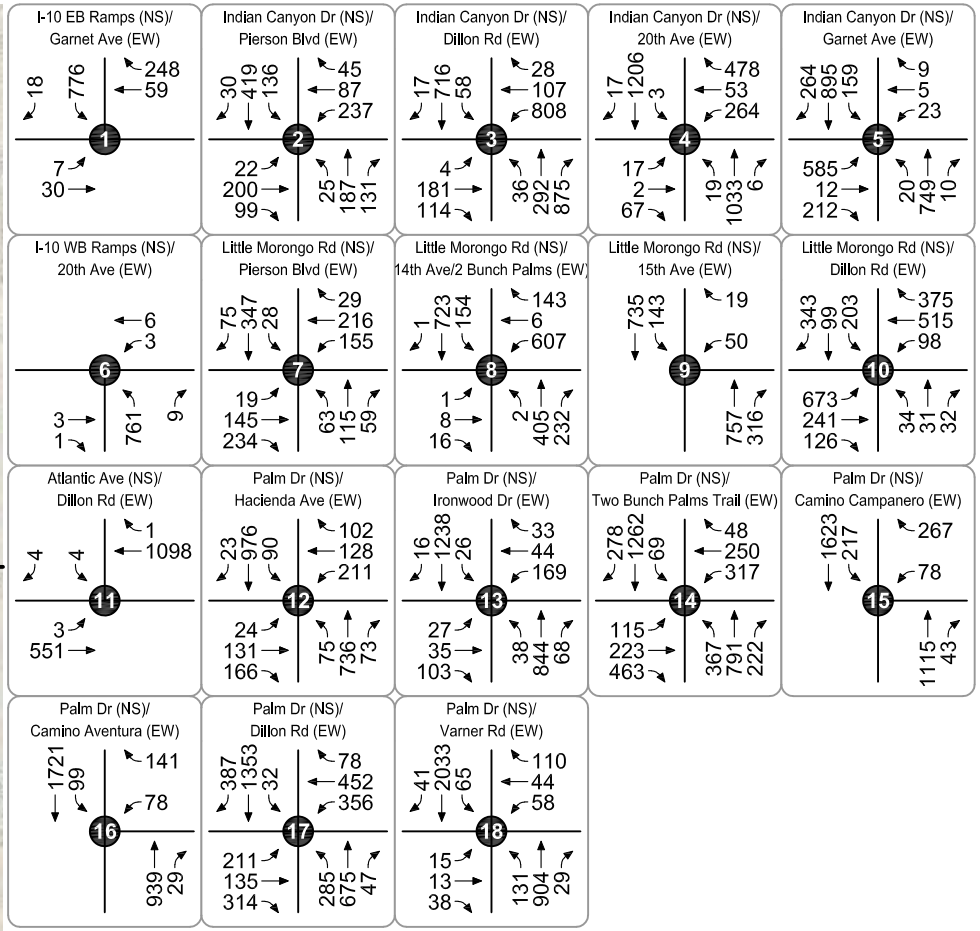


Legend

●## Vehicles Per Day (1,000's)

Figure 24
Existing Plus Ambient Plus Project Plus Cumulative Average Daily Traffic Volumes



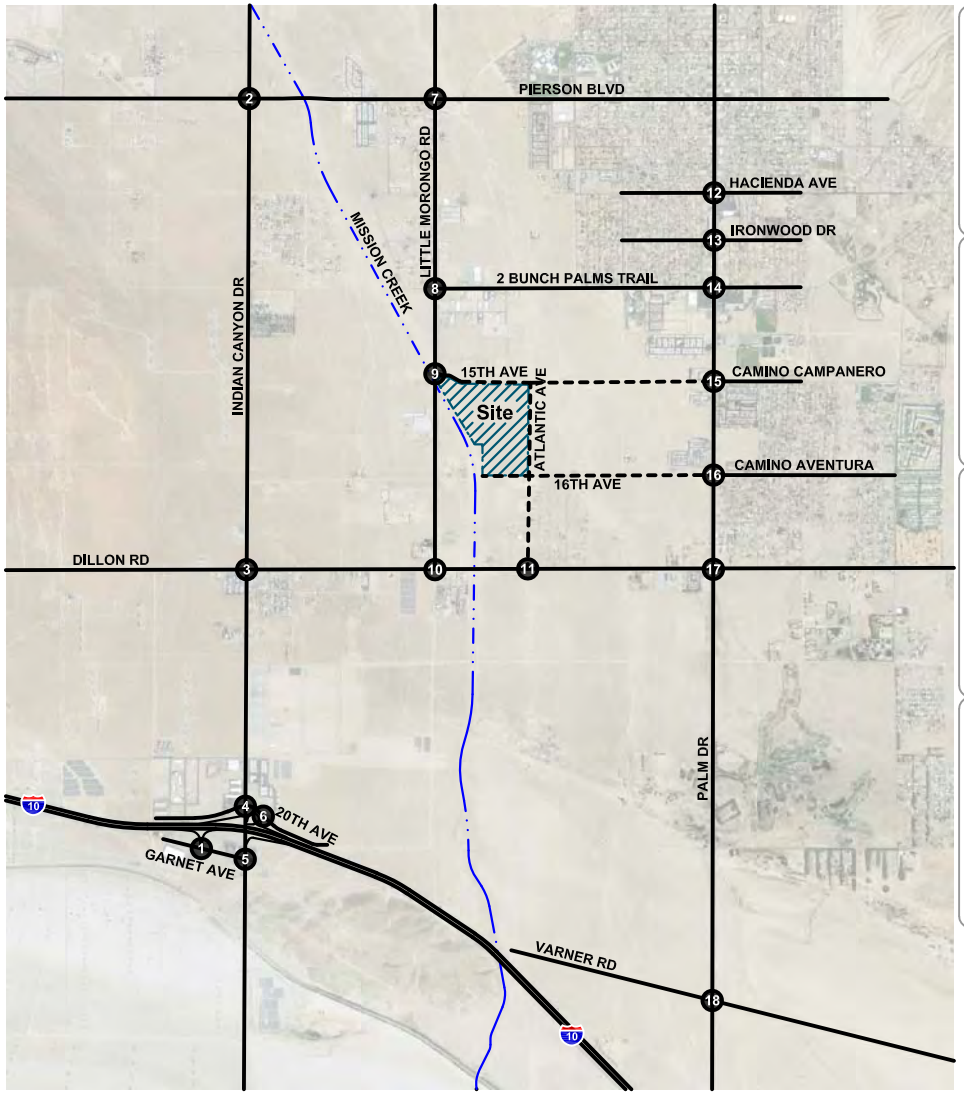


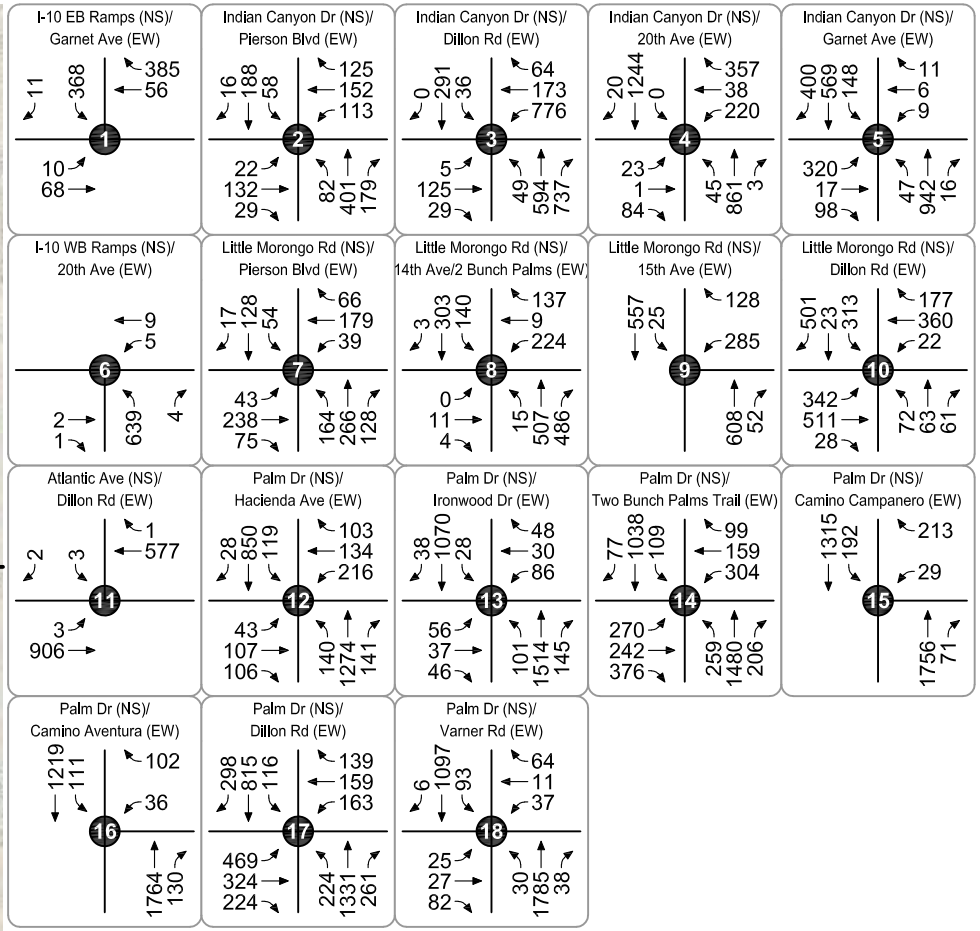
N

Legend

(#) Study Intersection

Figure 25
Existing Plus Ambient Plus Project Plus Cumulative
AM Peak Hour Intersection Turning Movement Volumes





Legend

(#) Study Intersection

Figure 26
Existing Plus Ambient Plus Project Plus Cumulative
PM Peak Hour Intersection Turning Movement Volumes

6. FUTURE OPERATIONAL ANALYSIS

Detailed intersection Level of Service calculation worksheets for each of the following analysis scenarios are provided in Appendix D.

EXISTING PLUS PROJECT

The intersection Levels of Service for Existing Plus Project conditions are shown in Table 4. As shown in Table 4, the study intersections are forecast to operate within acceptable Levels of Service (D or better) during the peak hours for Existing Plus Project conditions, except for the following study intersections that are projected to operate at deficient Levels of Service:

- Indian Canyon Drive/Dillon Road – #3 (AM & PM peak hours)
- Little Morongo Road/15th Avenue – #9 (PM peak hour)
- Palm Drive/Two Bunch Palms Trail – #14 (AM peak hour)
- Palm Drive/Dillon Road – #17 (AM peak hour)

The project shall construct the following improvements to mitigate the deficient intersections for Existing Plus Project conditions:

- Indian Canyon Drive/Dillon Road – #3
  - Install traffic signal (signal warrant currently satisfied under Existing conditions)
  - Provide northbound left turn lane
  - Provide southbound left turn lane
  - Provide eastbound left turn lane
  - Provide westbound left turn lane

- Little Morongo Road/15th Avenue – #9
  - Install traffic signal
  - Provide southbound left turn lane
  - Provide westbound left turn lane
  - Provide westbound right turn lane

- Palm Drive/Two Bunch Palms Trail – #14
  - Provide eastbound right-turn overlap phasing

- Palm Drive/Dillon Road – #17
  - Provide eastbound right-turn overlap phasing

EXISTING PLUS AMBIENT PLUS PROJECT

The intersection Levels of Service for Existing Plus Ambient Plus Project conditions are shown in Table 5. As shown in Table 5, the study intersections are forecast to operate within acceptable Levels of Service (D or better) during the peak hours for Existing Plus Ambient Plus Project conditions, except for the following study intersection that is forecast to operate at deficient Levels of Service (E or F):

- Indian Canyon Drive/Dillon Road – #3 (AM & PM peak hours)
- Little Morongo Road/15th Avenue – #9 (PM peak hour)
- Palm Drive/Two Bunch Palms Trail – #14 (AM peak hour)
- Palm Drive/Dillon Road – #17 (AM peak hour)

The project shall construct the following improvements to mitigate the deficient intersections for Existing Plus Ambient Plus Project conditions:

- Indian Canyon Drive/Dillon Road – #3
  - Install traffic signal (signal warrant currently satisfied under Existing conditions)
  - Provide northbound left turn lane
  - Provide southbound left turn lane
  - Provide eastbound left turn lane
  - Provide westbound left turn lane

- Little Morongo Road/15th Avenue – #9
  - Install traffic signal
  - Provide southbound left turn lane
  - Provide westbound left turn lane
  - Provide westbound right turn lane

- Palm Drive/Two Bunch Palms Trail – #14
  - Provide eastbound right-turn overlap phasing

- Palm Drive/Dillon Road – #17
  - Provide eastbound right-turn overlap phasing

EXISTING PLUS AMBIENT PLUS PROJECT PLUS CUMULATIVE

The intersection Levels of Service for Existing Plus Ambient Plus Project Plus Cumulative conditions are shown in Table 6. As shown in Table 6, the study intersections are projected to operate within acceptable Levels of Service (D or better) during the peak hours for Existing Plus Ambient Plus Project Plus Cumulative conditions, except for the following study intersections that are forecast to continue operating at deficient Levels of Service (E or F):

- Indian Canyon Drive/Pierson Boulevard – #2 (AM & PM peak hours)
- Indian Canyon Drive/Dillon Road – #3 (AM & PM peak hours)
- Little Morongo Road/Pierson Boulevard – #7 (AM & PM peak hours)
- Little Morongo Road/Two Bunch Palms Trail – #8 (AM & PM peak hours)
- Little Morongo Road/15th Avenue – #9 (AM & PM peak hours)
- Little Morongo Road/Dillon Road – #10 (AM & PM peak hours)
- Atlantic Avenue/Dillon Road – #11 (AM & PM peak hours)
- Palm Drive/Two Bunch Palms Trail – #14 (AM & PM peak hours))
- Palm Drive/Camino Aventura – #16 (AM & PM peak hours)
- Palm Drive/Dillon Road – #17 (AM & PM peak hours)

The following improvements are needed to mitigate the deficient intersections for Existing Plus Ambient Plus Project Plus Cumulative conditions:

- Indian Canyon Drive/Pierson Boulevard – #2
  - Install traffic signal (signal warrant currently satisfied under Existing conditions)
  - Provide northbound left turn lane
  - Provide southbound left turn lane
  - Provide eastbound left turn lane
  - Provide westbound left turn lane

- Indian Canyon Drive/Dillon Road – #3
  - Install traffic signal (signal warrant currently satisfied under Existing conditions)
  - Provide northbound left turn lane
  - Provide northbound right turn lane with overlap phasing
  - Provide southbound left turn lane
  - Provide southbound right turn lane
  - Provide eastbound left turn lane
  - Provide eastbound right turn lane
  - Provide two westbound left turn lanes

- Little Morongo Road/Pierson Boulevard – #7
  - Install traffic signal
  - Provide northbound left turn lane
  - Provide southbound left turn lane
  - Provide eastbound left turn lane
  - Provide westbound left turn lane

- Little Morongo Road/Two Bunch Palms Trail – #8
  - Install traffic signal (signal warrant currently satisfied under Existing conditions)
  - Provide northbound left turn lane
  - Provide northbound right turn lane
  - Provide southbound left turn lane
  - Provide eastbound left turn lane
  - Provide two westbound left turn lanes

- Little Morongo Road/15th Avenue – #9
  - Install traffic signal
  - Provide southbound left turn lane
  - Provide westbound left turn lane
  - Provide westbound right turn lane
  - Provide second northbound through lane

- Little Morongo Road/Dillon Road – #10
  - Install traffic signal (signal warrant currently satisfied under Existing conditions)
  - Provide northbound left turn lane
  - Provide southbound left turn lane
  - Provide second eastbound left turn lane
  - Provide westbound right turn lane

- Atlantic Avenue/Dillon Road – #11
  - Restrict southbound left turn

- Palm Drive/Two Bunch Palms Trail – #14
  - Provide second northbound left turn lane
  - Provide third southbound through lane
  - Provide eastbound right-turn overlap phasing

- Palm Drive/Camino Aventura – #16
  - Install traffic signal (signal warrant currently satisfied under Existing conditions)

- Palm Drive/Dillon Road – #17
  - Provide third southbound through lane
  - Provide southbound right-turn overlap phasing
  - Provide eastbound right-turn overlap phasing

The project applicant should pay its fair share of fees to an applicable program for the required mitigation measure improvements. Some of the intersections currently satisfy the traffic signal warrant based on Existing conditions.

Table 4
Existing Plus Project Intersection Levels of Service

Study Intersection	Traffic Control[1]	Weekday AM Peak Hour						Weekday PM Peak Hour					
		Existing Traffic		Future Traffic		Project Change	Significant Impact?	Existing Traffic		Future Traffic		Project Change	Significant Impact?
		Delay[2]	LOS[3]	Delay[2]	LOS[3]			Delay[2]	LOS[3]	Delay[2]	LOS[3]		
1. I-10 EB Ramps at Garnet Ave	TS	17.5	B	18.0	B	+0.5	No	15.3	B	15.4	B	+0.1	No
2. Indian Canyon Dr at Pierson Blvd	AWS	16.8	C	19.2	C	+2.4	No	14.1	B	15.4	C	+1.3	No
3. Indian Canyon Dr at Dillon Rd	AWS	54.3	F	71.1	F	+16.8	Yes	20.2	C	36.7	E	+16.5	Yes
•New traffic signal; NB left; SB left; EB left; WB left	TS			18.1	A	-36.2	No			31.2	C	+11.0	No
4. Indian Canyon Dr at 20th Ave	TS	15.1	B	15.2	B	+0.1	No	16.2	B	16.3	B	+0.1	No
5. Indian Canyon Dr at Garnet Ave	TS	17.3	B	17.8	B	+0.5	No	14.7	B	14.7	B	-	No
6. I-10 WB Ramps at 20th Ave	TS	24.7	C	25.0	C	+0.3	No	23.7	C	24.1	C	+0.4	No
7. Little Morongo Rd at Pierson Blvd	AWS	9.6	A	10.3	B	+0.7	No	10.0	B	10.7	B	+0.7	No
8. Little Morongo Rd at 2 Bunch Palms Tr	AWS	12.6	B	17.6	C	+5.0	No	11.1	B	14.8	B	+3.7	No
9. Little Morongo Rd at 15th Ave	CSS	13.3	B	31.7	D	+18.4	No	13.2	B	75.2	F	+62.0	Yes
•New traffic signal; SB left; WB left; WB right	TS			5.0	A	-8.3	No			14.2	B	+1.0	No
10. Little Morongo Rd at Dillon Rd	AWS	11.2	B	17.9	C	+6.7	No	11.3	B	23.0	C	+11.7	No
11. Atlantic Ave at Dillon Rd	CSS	13.5	B	15.6	C	+2.1	No	12.8	B	14.6	B	+1.8	No
12. Palm Dr at Hacienda Ave	TS	18.7	B	19.1	B	+0.4	No	21.3	C	21.6	C	+0.3	No
13. Palm Dr at Ironwood Dr	TS	13.4	B	14.1	B	+0.7	No	13.8	B	14.1	B	+0.3	No
14. Palm Dr at 2 Bunch Palms Trail	TS	58.7	E	59.1	E	+0.4	Yes	29.6	C	30.3	C	+0.7	No
•EB right-turn overlap phasing	TS			33.5	C	-25.2	No			26.2	C	-3.4	No
15. Palm Dr at Camino Campanero	TS	13.1	B	13.2	B	+0.1	No	11.2	B	11.2	B	-	No
16. Palm Dr at Camino Aventura	CSS	22.1	C	24.1	C	+2.0	No	27.0	D	28.3	D	+1.3	No
17. Palm Dr at Dillon Rd	TS	49.7	D	59.4	E	+9.7	Yes	23.8	C	25.8	C	+2.0	No
•EB right-turn overlap phasing	TS			36.9	D	-12.8	No			25.1	C	+1.3	No
18. Palm Dr at Varner Rd	TS	8.2	A	9.6	A	+1.4	No	5.9	A	6.8	A	+0.9	No

Notes:

(1) TS = Traffic Signal; CSS = Cross Street Stop

(2) Delay is shown in seconds/vehicle. For intersections with traffic signal or all way stop control, overall average intersection delay and LOS are shown. For intersections with cross street stop control, Level of Service is based on average delay of the worst individual lane (or movements sharing

(3) LOS = Level of Service

Table 5
Existing Plus Ambient Plus Project Intersection Levels of Service

Study Intersection	Traffic Control[1]	Weekday AM Peak Hour						Weekday PM Peak Hour					
		Existing Traffic		Future Traffic		Project Change	Significant Impact?	Existing Traffic		Future Traffic		Project Change	Significant Impact?
		Delay[2]	LOS[3]	Delay[2]	LOS[3]			Delay[2]	LOS[3]	Delay[2]	LOS[3]		
1. I-10 EB Ramps at Garnet Ave	TS	17.5	B	18.2	B	+0.7	No	15.3	B	15.5	B	+0.2	No
2. Indian Canyon Dr at Pierson Blvd	AWS	16.8	C	21.4	C	+4.6	No	14.1	B	16.5	C	+2.4	No
3. Indian Canyon Dr at Dillon Rd	AWS	54.3	F	81.6	F	+27.3	Yes	20.2	C	43.8	E	+23.6	Yes
•New traffic signal; NB left; SB left; EB left; WB left	TS			33.0	C	-21.3	No			33.4	C	+13.2	No
4. Indian Canyon Dr at 20th Ave	TS	15.1	B	15.4	B	+0.3	No	16.2	B	16.5	B	+0.3	No
5. Indian Canyon Dr at Garnet Ave	TS	17.3	B	18.1	B	+0.8	No	14.7	B	14.8	B	+0.1	No
6. I-10 WB Ramps at 20th Ave	TS	24.7	C	25.3	C	+0.6	No	23.7	C	24.3	C	+0.6	No
7. Little Morongo Rd at Pierson Blvd	AWS	9.6	A	10.5	B	+0.9	No	10.0	B	11.0	B	+1.0	No
8. Little Morongo Rd at 2 Bunch Palms Tr	AWS	12.6	B	18.9	C	+6.3	No	11.1	B	15.8	C	+4.7	No
9. Little Morongo Rd at 15th Ave	CSS	13.3	B	33.2	D	+19.9	No	13.2	B	85.1	F	+71.9	Yes
•New traffic signal; SB left; WB left; WB right	TS			5.0	A	-8.3	No			14.2	B	+1.0	No
10. Little Morongo Rd at Dillon Rd	AWS	11.2	B	19.1	C	+7.9	No	11.3	B	24.6	C	+13.3	No
11. Atlantic Ave at Dillon Rd	CSS	13.5	B	16.0	C	+2.5	No	12.8	B	14.9	B	+2.1	No
12. Palm Dr at Hacienda Ave	TS	18.7	B	19.4	B	+0.7	No	21.3	C	22.2	C	+0.9	No
13. Palm Dr at Ironwood Dr	TS	13.4	B	14.4	B	+1.0	No	13.8	B	14.4	B	+0.6	No
14. Palm Dr at 2 Bunch Palms Trail	TS	58.7	E	67.5	E	+8.8	Yes	29.6	C	32.5	C	+2.9	No
•EB right-turn overlap phasing	TS			36.6	D	-22.1	No			27.5	C	-2.1	No
15. Palm Dr at Camino Campanero	TS	13.1	B	13.9	B	+0.8	No	11.2	B	11.9	B	+0.7	No
16. Palm Dr at Camino Aventura	CSS	22.1	C	25.6	D	+3.5	No	27.0	D	30.4	D	+3.4	No
17. Palm Dr at Dillon Rd	TS	49.7	D	68.4	E	+18.7	Yes	23.8	C	27.2	C	+3.4	No
•EB right-turn overlap phasing	TS			41.6	D	-8.1	No			26.3	C	+2.5	No
18. Palm Dr at Varner Rd	TS	8.2	A	10.6	B	+2.4	No	5.9	A	7.0	A	+1.1	No

Notes:

(1) TS = Traffic Signal; CSS = Cross Street Stop

(2) Delay is shown in seconds/vehicle. For intersections with traffic signal or all way stop control, overall average intersection delay and LOS are shown. For intersections with cross street stop control, Level of Service is based on average delay of the worst individual lane (or movements sharing

(3) LOS = Level of Service

Table 6
Existing Plus Ambient Plus Project Plus Cumulative Intersection Levels of Service

Study Intersection	Traffic Control[1]	Weekday AM Peak Hour						Weekday PM Peak Hour					
		Existing Traffic		Future Traffic		Cumul-ative Change	Significant Impact?	Existing Traffic		Future Traffic		Cumul-ative Change	Significant Impact?
		Delay[2]	LOS[3]	Delay[2]	LOS[3]			Delay[2]	LOS[3]	Delay[2]	LOS[3]		
1. I-10 EB Ramps at Garnet Ave	TS	17.5	B	18.4	B	+0.9	No	15.3	B	16.0	B	+0.7	No
2. Indian Canyon Dr at Pierson Blvd	AWS	16.8	C	165.0	F	+148.2	Yes	14.1	B	53.4	F	+39.3	Yes
•New traffic signal; NB left; SB left; EB left; WB left	TS			17.5	B	+0.7	No			13.4	B	-0.7	No
3. Indian Canyon Dr at Dillon Rd	AWS	54.3	F	509.8	F	+455.5	Yes	20.2	C	345.0	F	+324.8	Yes
•New traffic signal; NB left; NB right with overlap phasing; SB left; SB right; EB left; EB right; 2 WB left	TS			42.3	D	-12.0	No			24.3	C	+4.1	No
4. Indian Canyon Dr at 20th Ave	TS	15.1	B	18.3	B	+3.2	No	16.2	B	16.8	B	+0.6	No
5. Indian Canyon Dr at Garnet Ave	TS	17.3	B	22.4	C	+5.1	No	14.7	B	15.7	C	+1.0	No
6. I-10 WB Ramps at 20th Ave	TS	24.7	C	26.0	C	+1.3	No	23.7	C	24.7	C	+1.0	No
7. Little Morongo Rd at Pierson Blvd	AWS	9.6	A	74.8	F	+65.2	Yes	10.0	B	44.5	E	+34.5	Yes
•New traffic signal; NB left; SB left; EB left; WB left	TS			15.9	B	+6.3	No			13.6	B	+3.6	No
8. Little Morongo Rd at 2 Bunch Palms Tr	AWS	12.6	B	331.0	F	+318.4	Yes	11.1	B	213.4	F	+202.3	Yes
•New traffic signal; NB left; NB right; SB left; EB left; 2 WB left	TS			27.2	C	+14.6	No			18.1	B	+7.0	No
9. Little Morongo Rd at 15th Ave	CSS	13.3	B	495.0	F	+481.7	Yes	13.2	B	538.8	F	+525.6	Yes
•New traffic signal; SB left; WB left; WB right; 2nd NB thru	TS			4.4	A	-8.9	No			12.7	B	-0.5	No
10. Little Morongo Rd at Dillon Rd	AWS	11.2	B	312.2	F	+301.0	Yes	11.3	B	312.3	F	+301.0	Yes
•New traffic signal; NB left; SB left; 2nd EB left; WB right	TS			54.9	D	+43.7	No			48.7	D	+37.4	No
11. Atlantic Ave at Dillon Rd	CSS	13.5	B	42.2	E	+28.7	Yes	12.8	B	36.8	E	+24.0	Yes
•Restrict SB left turn	CSS			19.9	C	+6.4	No			12.5	B	-0.3	No
12. Palm Dr at Hacienda Ave	TS	18.7	B	24.4	C	+5.7	No	21.3	C	28.6	C	+7.3	No
13. Palm Dr at Ironwood Dr	TS	13.4	B	22.4	C	+9.0	No	13.8	B	18.2	B	+4.4	No
14. Palm Dr at 2 Bunch Palms Trail	TS	58.7	E	145.3	F	+86.6	Yes	29.6	C	73.0	E	+43.4	Yes
•2nd NB left; 3rd SB thru; EB right-turn overlap phasing	TS			44.1	D	-14.6	No			41.5	D	+11.9	No
15. Palm Dr at Camino Campanero	TS	13.1	B	22.0	C	+8.9	No	11.2	B	20.1	C	+8.9	No
16. Palm Dr at Camino Aventura	CSS	22.1	C	70.6	F	+48.5	Yes	27.0	D	65.0	F	+38.0	Yes
•New traffic signal	TS			10.8	B	-11.3	No			9.9	A	-17.1	No
17. Palm Dr at Dillon Rd	TS	49.7	D	102.6	F	+52.9	Yes	23.8	C	55.3	E	+31.5	Yes
•3rd SB thru; SB right-turn overlap phasing; EB right-turn overlap phasing	TS			53.8	D	+4.1	No			51.3	D	+27.5	No
18. Palm Dr at Varner Rd	TS	8.2	A	48.3	D	+40.1	No	5.9	A	13.3	B	+7.4	No

Notes:

(1) TS = Traffic Signal; CSS = Cross Street Stop

(2) Delay is shown in seconds/vehicle. For intersections with traffic signal or all way stop control, overall average intersection delay and LOS are shown. For intersections with cross street stop control, Level of Service is based on average delay of the worst individual lane (or movements sharing a lane).

(3) LOS = Level of Service

7. CONCLUSIONS

MITIGATION MEASURES

The project shall construct the following improvements to provide project access and mitigate the significantly impacted intersections for Existing Plus Project and Existing Plus Ambient Plus Project conditions:

- Indian Canyon Drive/Dillon Road – #3
  - Install traffic signal (signal warrant currently satisfied under Existing conditions)
  - Provide northbound left turn lane
  - Provide southbound left turn lane
  - Provide eastbound left turn lane
  - Provide westbound left turn lane

- Little Morongo Road/15th Avenue – #9
  - Install traffic signal (signal warrant satisfied under Existing Plus Project conditions)
  - Provide southbound left turn lane
  - Provide westbound left turn lane
  - Provide westbound right turn lane

- Palm Drive/Two Bunch Palms Trail – #14
  - Provide eastbound right-turn overlap phasing

- Palm Drive/Dillon Road – #17
  - Provide eastbound right-turn overlap phasing

The project shall construct the following improvements to provide project access and mitigate the significantly impacted intersections for Existing Plus Ambient Plus Cumulative Plus Project conditions:

- Indian Canyon Drive/Pierson Boulevard – #2
  - Install traffic signal (signal warrant currently satisfied under Existing conditions)
  - Provide northbound left turn lane
  - Provide southbound left turn lane
  - Provide eastbound left turn lane
  - Provide westbound left turn lane

- Indian Canyon Drive/Dillon Road – #3
  - Install traffic signal (signal warrant currently satisfied under Existing conditions)
  - Provide northbound left turn lane
  - Provide northbound right turn lane with overlap phasing
  - Provide southbound left turn lane
  - Provide southbound right turn lane
  - Provide eastbound left turn lane
  - Provide eastbound right turn lane
  - Provide two westbound left turn lanes

- Little Morongo Road/Pierson Boulevard – #7
  - Install traffic signal (signal warrant satisfied under Existing Plus Ambient Plus Project Plus Cumulative conditions)
  - Provide northbound left turn lane
  - Provide southbound left turn lane

- Provide eastbound left turn lane
- Provide westbound left turn lane

- Little Morongo Road/Two Bunch Palms Trail – #8
  - Install traffic signal (signal warrant currently satisfied under Existing conditions)
  - Provide northbound left turn lane
  - Provide northbound right turn lane
  - Provide southbound left turn lane
  - Provide eastbound left turn lane
  - Provide two westbound left turn lanes

- Little Morongo Road/15th Avenue – #9
  - Install traffic signal (signal warrant satisfied under Existing Plus Project conditions)
  - Provide southbound left turn lane
  - Provide westbound left turn lane
  - Provide westbound right turn lane
  - Provide second northbound through lane

- Little Morongo Road/Dillon Road – #10
  - Install traffic signal (signal warrant currently satisfied under Existing conditions)
  - Provide northbound left turn lane
  - Provide southbound left turn lane
  - Provide second eastbound left turn lane
  - Provide westbound right turn lane

- Atlantic Avenue/Dillon Road – #11
  - Restrict southbound left turn

- Palm Drive/Two Bunch Palms Trail – #14
  - Provide second northbound left turn lane
  - Provide third southbound through lane
  - Provide eastbound right-turn overlap phasing

- Palm Drive/Camino Aventura – #16
  - Install traffic signal (signal warrant currently satisfied under Existing conditions)

- Palm Drive/Dillon Road – #17
  - Provide third southbound through lane
  - Provide southbound right-turn overlap phasing
  - Provide eastbound right-turn overlap phasing

Since this is a degradation of Level of Service for the already deficient intersection operations under Existing conditions, the project applicant should pay its fair share of fees to an applicable program for the required mitigation measure improvements. Some of the intersections currently satisfy the traffic signal warrant based on Existing conditions.

PROJECT FAIR SHARE CONTRIBUTION

The project fair share contributions have also been calculated for Existing Plus Ambient Plus Project Plus Cumulative improvement locations. The project share of cost has been based on the proportion of project peak hour intersection turning movement volumes contributed to the improvement location relative to the

total new peak hour Existing Plus Ambient Plus Project Plus Cumulative intersection turning movement volumes.

Table 7 presents a summary of improvement cost and project cost shares at the Existing Plus Ambient Plus Project Plus Cumulative study intersection improvement locations. The intersection fair share cost calculations are typically based on the higher of the weekday morning and weekday evening peak hour traffic volumes. As shown in Table 7, the project's fair share percentages of identified impacted intersections are approximately 6.5% to 46.9%. The fair share calculations are intended only for the discussion purposes of this traffic impact analysis, and do not imply any legal responsibility or formula for contributions or mitigation.

SITE ACCESS

The following improvements will be constructed by the project to provide project site access:

Little Morongo Road at 15th Street (Intersection #9)

- Install a traffic signal.
- Provide a southbound left turn lane.
- Provide a westbound left turn lane.
- Provide a westbound right turn lane.

The project should provide a secondary emergency-only access to the south of the project site to Atlantic Avenue.

GENERAL RECOMMENDATIONS

Figure 27 summarizes the circulation recommendations for the proposed project.

15th Avenue, adjacent to the project boundary, should be constructed at its ultimate half-section width, including landscaping and parkway improvements in conjunction with development per City standards.

16th Avenue, adjacent to the project boundary, should be constructed at its ultimate half-section width, including landscaping and parkway improvements in conjunction with development per City standards.

Atlantic Avenue, adjacent to the project boundary, should be constructed at its ultimate half-section width, including landscaping and parkway improvements in conjunction with development per City standards.

The project should provide a secondary emergency-only access to the south of the project site to Atlantic Avenue.

Install a traffic signal at the intersection of Little Morongo Road and 15th Street.

All roadway design, traffic signing and striping, and traffic control improvements relating to the proposed project should be constructed in accordance with applicable engineering standards and to the satisfaction of the City of Desert Hot Springs.

Site-adjacent roadways should be constructed or repaired at their ultimate half-section width, including landscaping and parkway improvements in conjunction with development, or as otherwise required by the City of Desert Hot Springs.

On-site traffic signing and striping plans should be submitted for City of Desert Hot Springs approval in conjunction with detailed construction plans for the project.

The final grading, landscaping, and street improvement plans should demonstrate that sight distance standards are met in accordance with applicable City of Desert Hot Springs/California Department of Transportation sight distance standards.

As is the case for any roadway design, the City of Desert Hot Springs should periodically review traffic operations in the vicinity of the project once the project is constructed to assure that the traffic operations are satisfactory.

Table 7
Project Fair Share Intersection Traffic Contribution

Intersection	Peak Hour	Intersection Turning Movement Volumes				Project % of New Traffic
		Existing	Existing Plus Ambient Plus Cumulative Plus Project	Project	Total New	
2. Indian Canyon Dr at Pierson Blvd	AM	900	1,618	52	718	7.2%
	PM	982	1,497	50	515	9.7%
3. Indian Canyon Dr at Dillon Rd	AM	1,339	3,236	207	1,897	10.9%
	PM	1,357	2,879	191	1,522	12.5%
7. Little Morongo Rd at Pierson Blvd	AM	578	1,485	84	907	9.3%
	PM	727	1,397	80	670	11.9%
8. Little Morongo Rd at 2 Bunch Palms Tr	AM	762	2,298	162	1,536	10.5%
	PM	760	1,839	153	1,079	14.2%
9. Little Morongo Rd at 15th Ave	AM	618	2,020	528	1,402	37.7%
	PM	610	1,655	490	1,045	46.9%
10. Little Morongo Rd at Dillon Rd	AM	699	2,770	366	2,071	17.7%
	PM	805	2,473	337	1,668	20.2%
11. Atlantic Ave at Dillon Rd	AM	645	1,661	159	1,016	15.6%
	PM	556	1,492	146	936	15.6%
14. Palm Dr at 2 Bunch Palms Trail	AM	3,034	4,405	104	1,371	7.6%
	PM	3,138	4,619	98	1,481	6.6%
16. Palm Dr at Camino Aventura	AM	2,110	3,007	58	897	6.5%
	PM	2,342	3,362	53	1,020	5.2%
17. Palm Dr at Dillon Rd	AM	2,954	4,325	159	1,371	11.6%
	PM	3,209	4,523	146	1,314	11.1%

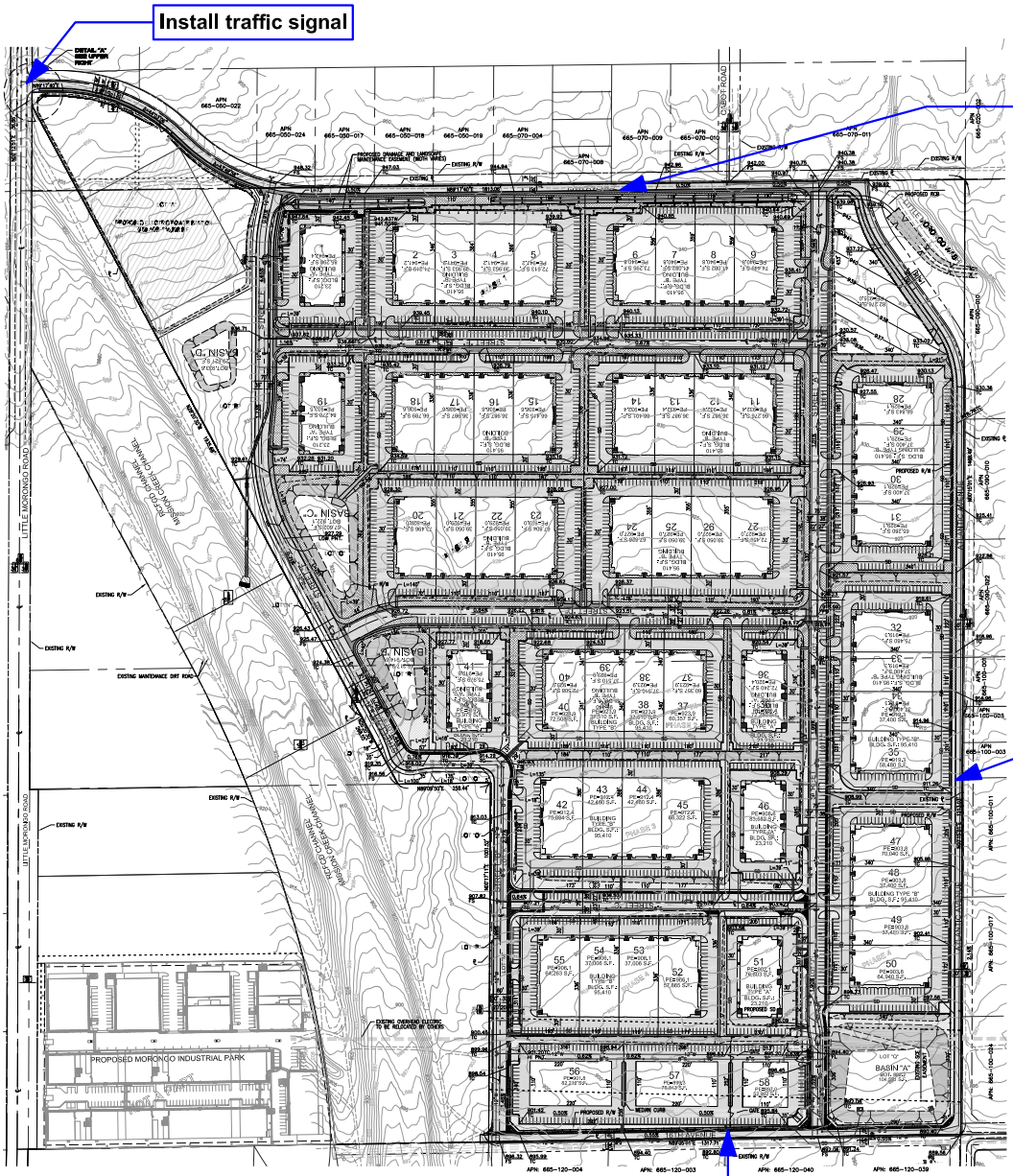


Figure 27
Circulation Recommendations

APPENDICES

Appendix A Glossary

Appendix B Scoping Agreement

Appendix C Volume Count Worksheets

Appendix D Level of Service Worksheets

Appendix E Traffic Signal Warrant Analysis

APPENDIX A

GLOSSARY

GLOSSARY OF TERMS

ACRONYMS

AC	Acres
ADT	Average Daily Traffic
Caltrans	California Department of Transportation
DU	Dwelling Unit
ICU	Intersection Capacity Utilization
LOS	Level of Service
TSF	Thousand Square Feet
V/C	Volume/Capacity
VMT	Vehicle Miles Traveled

TERMS

AVERAGE DAILY TRAFFIC: The average 24-hour volume for a stated period divided by the number of days in that period. For example, Annual Average Daily Traffic is the total volume during a year divided by 365 days.

BANDWIDTH: The number of seconds of green time available for through traffic in a signal progression.

BOTTLENECK: A point of constriction along a roadway that limits the amount of traffic that can proceed downstream from its location.

CAPACITY: The maximum number of vehicles that can be reasonably expected to pass over a given section of a lane or a roadway in a given time period.

CHANNELIZATION: The separation or regulation of conflicting traffic movements into definite paths of travel by the use of pavement markings, raised islands, or other suitable means to facilitate the safe and orderly movements of both vehicles and pedestrians.

CLEARANCE INTERVAL: Nearly same as yellow time. If there is an all red interval after the end of a yellow, then that is also added into the clearance interval.

CONTROL DELAY: The component of delay, typically expressed in seconds per vehicle, resulting from the type of traffic control at an intersection. Control delay is measured by comparison with the uncontrolled condition; it includes delay incurred by slowing down, stopping/waiting, and speeding up.

CORDON: An imaginary line around an area across which vehicles, persons, or other items are counted (in and out).

CORNER SIGHT DISTANCE: The minimum sight distance required by the driver of a vehicle to cross or enter the lanes of the major roadway without requiring approaching traffic travelling at a given speed to radically alter their speed or trajectory. Corner sight distance is measured from the driver's eye at 42 inches above the pavement to an object height of 36 inches above the pavement in the center of the nearest approach lane.

CYCLE LENGTH: The time period in seconds required for a traffic signal to complete one full cycle of indications.

CUL-DE-SAC: A local street open at one end only and with special provisions for turning around.

DAILY CAPACITY: A theoretical value representing the daily traffic volume that will typically result in a peak hour volume equal to the capacity of the roadway.

DELAY: The time consumed while traffic is impeded in its movement by some element over which it has no control, usually expressed in seconds per vehicle.

DEMAND RESPONSIVE SIGNAL: Same as traffic-actuated signal.

DENSITY: The number of vehicles occupying in a unit length of the through traffic lanes of a roadway at any given instant. Usually expressed in vehicles per mile.

DETECTOR: A device that responds to a physical stimulus and transmits a resulting impulse to the signal controller.

DESIGN SPEED: A speed selected for purposes of design. Features of a highway, such as curvature, superelevation, and sight distance (upon which the safe operation of vehicles is dependent) are correlated to design speed.

DIRECTIONAL SPLIT: The percent of traffic in the peak direction at any point in time.

DIVERSION: The rerouting of peak hour traffic to avoid congestion.

FORCED FLOW: Opposite of free flow.

FREE FLOW: Volumes are well below capacity. Vehicles can maneuver freely and travel is unimpeded by other traffic.

GAP: Time or distance between successive vehicles in a traffic stream, rear bumper to front bumper.

HEADWAY: Time or distance spacing between successive vehicles in a traffic stream, front bumper to front bumper.

INTERCONNECTED SIGNAL SYSTEM: A number of intersections that are connected to achieve signal progression.

LEVEL OF SERVICE: A qualitative measure of a number of factors, which include speed and travel time, traffic interruptions, freedom to maneuver, safety, driving comfort and convenience, and operating costs.

LOOP DETECTOR: A vehicle detector consisting of a loop of wire embedded in the roadway, energized by alternating current and producing an output circuit closure when passed over by a vehicle.

MINIMUM ACCEPTABLE GAP: Smallest time headway between successive vehicles in a traffic stream into which another vehicle is willing and able to cross or merge.

MULTI-MODAL: More than one mode; such as automobile, bus transit, rail rapid transit, and bicycle transportation modes.

OFFSET: The time interval in seconds between the beginning of green at one intersection and the beginning of green at an adjacent intersection.

PLATOON: A closely grouped component of traffic that is composed of several vehicles moving, or standing ready to move, with clear spaces ahead and behind.

PASSENGER CAR EQUIVALENT (PCE): A metric used to assess the impact of larger vehicles, such as trucks, recreational vehicles, and buses, by converting the traffic volume of larger vehicles to an equivalent number of passenger cars.

PEAK HOUR: The 60 consecutive minutes with the highest number of vehicles.

PRETIMED SIGNAL: A type of traffic signal that directs traffic to stop and go on a predetermined time schedule without regard to traffic conditions. Also, fixed time signal.

PROGRESSION: A term used to describe the progressive movement of traffic through several signalized intersections.

QUEUE: The number of vehicles waiting at a service area such as a traffic signal, stop sign, or access gate.

QUEUE LENGTH: The length of vehicle queue, typically expressed in feet, waiting at a service area such as a traffic signal, stop sign, or access gate.

SCREEN-LINE: An imaginary line or physical feature across which all trips are counted, normally to verify the validity of mathematical traffic models.

SHARED/RECIPROCAL PARKING AGREEMENT: A written binding document executed between property owners to provide a designated number of off-street parking stalls within a designated area to be available for specified businesses or land uses.

SIGHT DISTANCE: The continuous length of roadway visible to a driver or roadway user.

SIGNAL CYCLE: The time period in seconds required for one complete sequence of signal indications.

SIGNAL PHASE: The part of the signal cycle allocated to one or more traffic movements.

STACKING DISTANCE: The length of area available behind a service area, such as a traffic signal or gate, for vehicle queueing to occur.

STARTING DELAY: The delay experienced in initiating the movement of queued traffic from a stop to an average running speed through an intersection.

STOPPING SIGHT DISTANCE: The minimum distance required by the driver of a vehicle on the major roadway travelling at a given speed to bring the vehicle to a stop after an object on the road becomes visible. Stopping sight distance is measured from the driver's eye at 42 inches above the pavement to an object height of 6 inches above the pavement.

TRAFFIC-ACTUATED SIGNAL: A type of traffic signal that directs traffic to stop and go in accordance with the demands of traffic, as registered by the actuation of detectors.

TRIP: The movement of a person or vehicle from one location (origin) to another (destination). For example, from home to store to home is two trips, not one.

TRIP-END: One end of a trip at either the origin or destination (i.e., each trip has two trip-ends). A trip-end occurs when a person, object, or message is transferred to or from a vehicle.

TRIP GENERATION RATE: The quantity of trips produced and/or attracted by a specific land use stated in terms of units such as per dwelling, per acre, and per 1,000 square feet of floor space.

TRUCK: A vehicle having dual tires on one or more axles, or having more than two axles.

TURNING RADIUS: The circular arc formed by the smallest turning path radius of the front outside tire of a vehicle, such as that performed by a U-turn maneuver. This is based on the length and width of the wheel base as well as the steering mechanism of the vehicle.

UNBALANCED FLOW: Heavier traffic flow in one direction than the other. On a daily basis, most facilities have balanced flow. During the peak hours, flow is seldom balanced in an urban area.

VEHICLE MILES OF TRAVEL: A measure of the amount of usage of a section of highway, obtained by multiplying the average daily traffic by length of facility in miles.

APPENDIX B

SCOPING AGREEMENT

SCOPE AND ASSUMPTIONS FOR TRAFFIC IMPACT ANALYSIS

This letter acknowledges the Riverside County Transportation Department requirements for traffic impact analysis of the following project. The analysis must follow the Riverside County Transportation Department Traffic Study Guidelines dated April 2008.

Project Name: DHS 109 Business Park (Tentative Parcel Map No. 37235)

Project Address: East of Little Morongo Road and north of 16th Avenue **(See attached Figure 1)**

Project Description: 364,180 square feet of general light industrial use, and 920,000 square feet of industrial park (cannabis activity) use for a total of 1,284,180 square feet of building area **(See attached site plan in Figure 2)**

Trip Generation Source: Institute of Transportation Engineers (ITE) Trip Generation Manual, 10th Edition, 2017. **(See attached Table 1)** For General Light Industrial traffic, the vehicle mix assumptions is based on the City of Fontana, Truck Trip Generation Study, April 2003. For cannabis activity (Industrial Park) traffic, 5% of the vehicle mix is assumed to be 2-axle trucks used for delivery.

For the proposed cannabis activity (including cultivation, extraction, testing and other support services), the total number of employees is estimated based on one employee per 2,000 square feet of building area. This employee-to-square footage ratio is consistent to other operational assumptions of similar cannabis projects. Since cannabis activity will require significantly less employees per square feet of building area than typical industrial activities, it is more appropriate to forecast the project traffic based on number of employees rather than based on building square footage of an industrial park.

Existing Land Use: Vacant

Proposed Land Use: Industrial

Current Zoning: IL – Light Industrial

Proposed Zoning: IL – Light Industrial

Total Daily Project Trips: 3,665 PCE **See attached Table 1**

	Current Trip Generation			Proposed Trip Generation (PCE)		
	In	Out	Total	In	Out	Total
AM Trips				462	69	531
PM Trips				77	413	490

Internal Trip Allowance Yes **No** (_____% Trip Discount)

Pass-By Trip Allowance Yes **No** (_____% Trip Discount)

Trip Geographic Distribution: See attached Figure 3

Main project access is through 15th Avenue at Little Morongo Road. Secondary emergency access is through Atlantic Avenue to Dillon Road.

Project Completion Year: 2021 Annual Background Growth Rate: 2.0%

Other area projects to be considered: Need City's approved project list.

Analysis Conditions:

1. Existing
2. Existing + Project
3. Existing + Ambient (2021) + Project
4. Existing + Ambient (2021) + Cumulative + Project

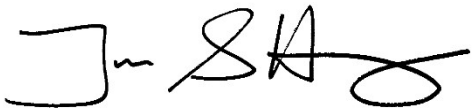
Study Intersections: See attached Exhibit 1

1. I-10 Eastbound Ramps (NS) @ Garnet Avenue (EW) – New 2019 counts
2. Indian Canyon Drive (NS) @ Pierson Boulevard (EW) – New 2019 counts
3. Indian Canyon Drive (NS) @ Dillon Road (EW) – New 2019 counts
4. Indian Canyon Drive (NS) @ 20th Avenue (EW) – New 2019 counts
5. Indian Canyon Drive (NS) @ Garnet Avenue (EW) – New 2019 counts
6. I-10 Westbound Ramps (NS) @ 20th Avenue (EW) – New 2019 counts
7. Little Morongo Road (NS) @ Pierson Boulevard (EW) – 6/27/2017 counts
8. Little Morongo Road (NS) @ Two Bunch Palms Trail (EW) – 4/17/2018 counts
9. Little Morongo Road (NS) @ 15th Avenue(EW) – Future intersection
10. Little Morongo Road (NS) @ Dillon Road (EW) – 6/27/217 counts
11. Atlantic Avenue (NS) @ Dillon Road (EW) – 9/19/2017 counts
12. Palm Road (NS) @ Hacienda Avenue (EW) – 4/17/2018 counts
13. Palm Road (NS) @ Ironwood Drive (EW) – New 2019 counts
14. Palm Road (NS) @ Two Bunch Palm Trails (EW) – 4/17/2018 counts
15. Palm Road (NS) @ Camino Campanero (EW) – New 2019 counts
16. Palm Road (NS) @ Camino Aventura (EW) – New 2019 counts
17. Palm Road (NS) @ Dillon Road (EW) – New 2019 counts
18. Palm Road (NS) @ Varner Road (EW) – 4/17/2018 counts

Existing Count Dates: See Figure 1. The 2017 counts will include a 4% growth to factor up to 2019 conditions. 2018 counts will include a 2% growth to factor up to 2019 conditions

	Consultant	**Developer**
Name:	Ganddini Group, Inc. Tom Huang, TE, Senior Engineer	DHS 109 Properties, LLC Shaul Mezrahi, Managing Partner
Address:	550 Parkcenter Drive, Suite 202 Santa Ana, CA 92705	333 North Palm Canyon Drive, Suite 109 Palm Springs, CA 92262
Telephone:	(714) 795-3100 x102	(916) 960-6765 c/o Steven Ford
Email:	tom@ganddini.com	stevenford@redcs.solutions

Prepared By: Approved By:



Tom Huang, TE
Consultant's Representative Date 04/08/2019

City Representative Date_____

JN 01-6627

Table 1
Project Trip Generation

Trip Generation Rates										
Project				AM Peak			PM Peak			Daily
No.	Land Use	Code[1]	Unit[2]	In%	Out%	Total	In%	Out%	Total	
1	General Light Industrial	ITE 110	TSF	88%	12%	0.700	13%	87%	0.630	4.960
2	78.60% Passenger Cars (PCE[3] = 1.0)	78.60%	1.0	88%	12%	0.550	13%	87%	0.495	3.899
3	8.00% 2-Axle Trucks (PCE[3] = 1.5)	8.00%	1.5	88%	12%	0.084	13%	87%	0.076	0.595
4	3.90% 3-Axle Trucks (PCE[3] = 2.0)	3.90%	2.0	88%	12%	0.055	13%	87%	0.049	0.387
5	9.50% 4-Axle Trucks (PCE[3] = 3.0)	9.50%	3.0	88%	12%	0.200	13%	87%	0.180	1.414
6	Industrial Park (Cannabis Activity)	ITE 130	EMP	86%	14%	0.440	20%	80%	0.420	2.910
7	95.00% Passenger Cars (PCE[3] = 1.0)	95.00%	1.0	86%	14%	0.418	20%	80%	0.399	2.765
8	5.00% 2-Axle Trucks (PCE[3] = 1.5)	5.00%	1.5	86%	14%	0.033	20%	80%	0.032	0.218

Trips Generated									
Project			AM Peak			PM Peak			Daily
No.	Land Use	Quantity[2]	In	Out	Total	In	Out	Total	
A	General Light Industrial	364.180 TSF							
	78.60% Passenger Cars (PCE[3] = 1.0)		176	24	200	23	157	180	1,420
	8.00% 2-Axle Trucks (PCE[3] = 1.5)		27	4	31	4	24	28	217
	3.90% 3-Axle Trucks (PCE[3] = 2.0)		17	3	20	2	16	18	141
	9.50% 4-Axle Trucks (PCE[3] = 3.0)		64	9	73	8	57	65	515
	Total Trips - General Light Industrial		284	40	324	37	254	291	2,293
B	Industrial Park (Cannabis Activity)	460 EMP[4]							
	95.00% Passenger Cars (PCE[3] = 1.0)		165	27	192	37	147	184	1,272
	5.00% 2-Axle Trucks (PCE[3] = 1.5)		13	2	15	3	12	15	100
	Total Trips - Industrial Park (Cannibis Activity)		178	29	207	40	159	199	1,372
Total Project Car PCE Trips			341	51	392	60	304	364	2,692
Total Project Truck PCE Trips			121	18	139	17	109	126	973
Overall Total Project PCE Trips		1,284.180 TSF	462	69	531	77	413	490	3,665

Notes:

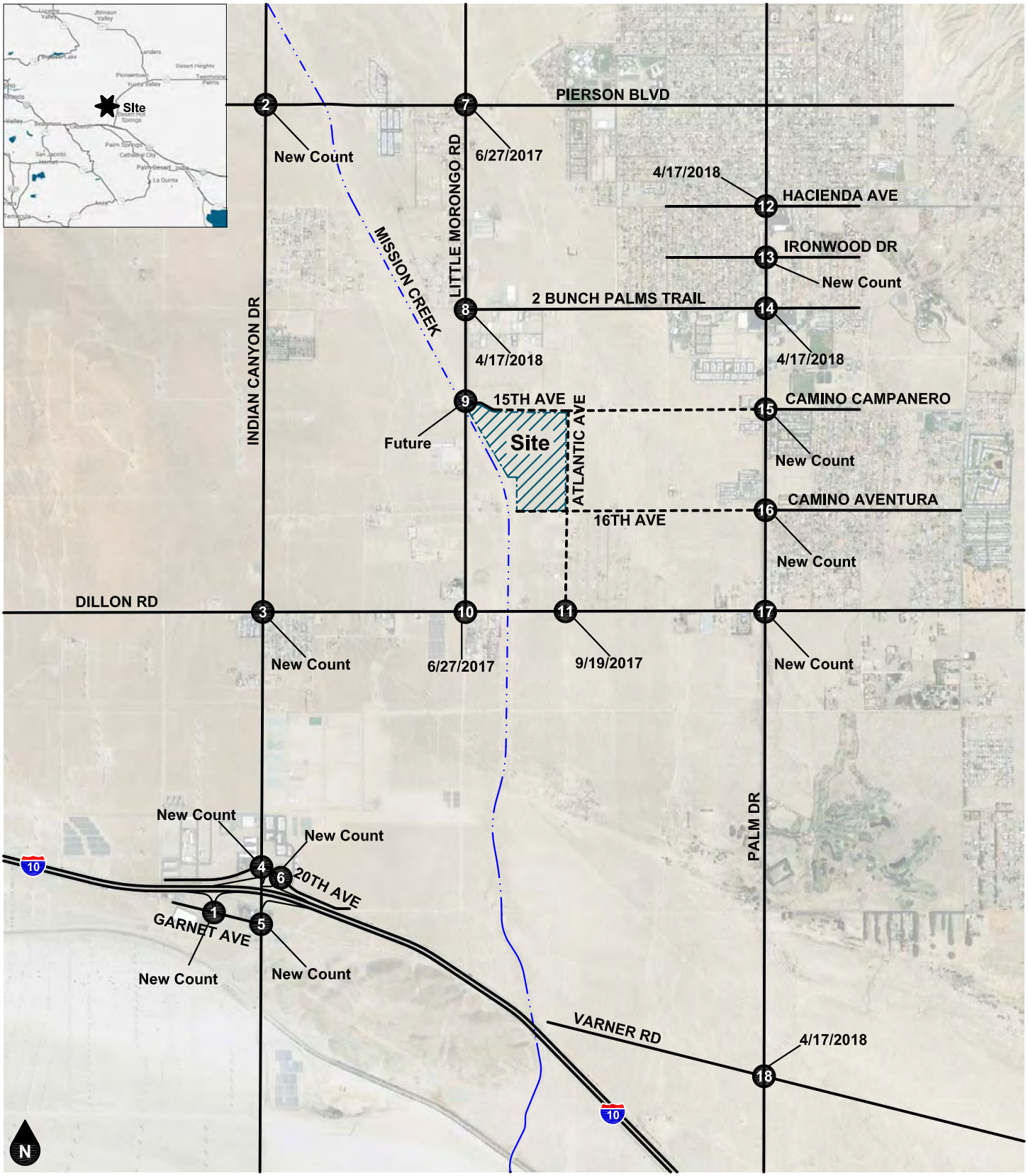
(1) Institute of Transportation Engineers, Trip Generation Manual, 10th Edition, 2017. General Light Industrial; Industrial Park.

For General Light Industrial traffic, the vehicle mix assumptions is based on the City of Fontana, Truck Trip Generation Study, April 2003. For cannabis activity (Industrial Park) traffic, 5% of the vehicle mix is assumed to be 2-axle trucks used for delivery.

(2) TSF = Thousand Square Feet; EMP = Employees

(3) Passenger Car Equivalence (PCE) rate per San Bernardino Association of Governments (SANBAG) guidelines.

(4) For the proposed cannabis activity (including cultivation, extraction, testing and other support services), the total number of employees is estimated based on one employee per 2,000 square feet of building area. This employee-to-square footage ratio is consistent to other operational assumptions of similar cannabis projects. Since cannabis activity will require significantly less employees per square feet of building area than typical industrial activities, it is more appropriate to forecast the project traffic based on number of employees rather than based on building square footage of an industrial park.



Legend

(#) Study Intersection

Figure 1
Project Location Map

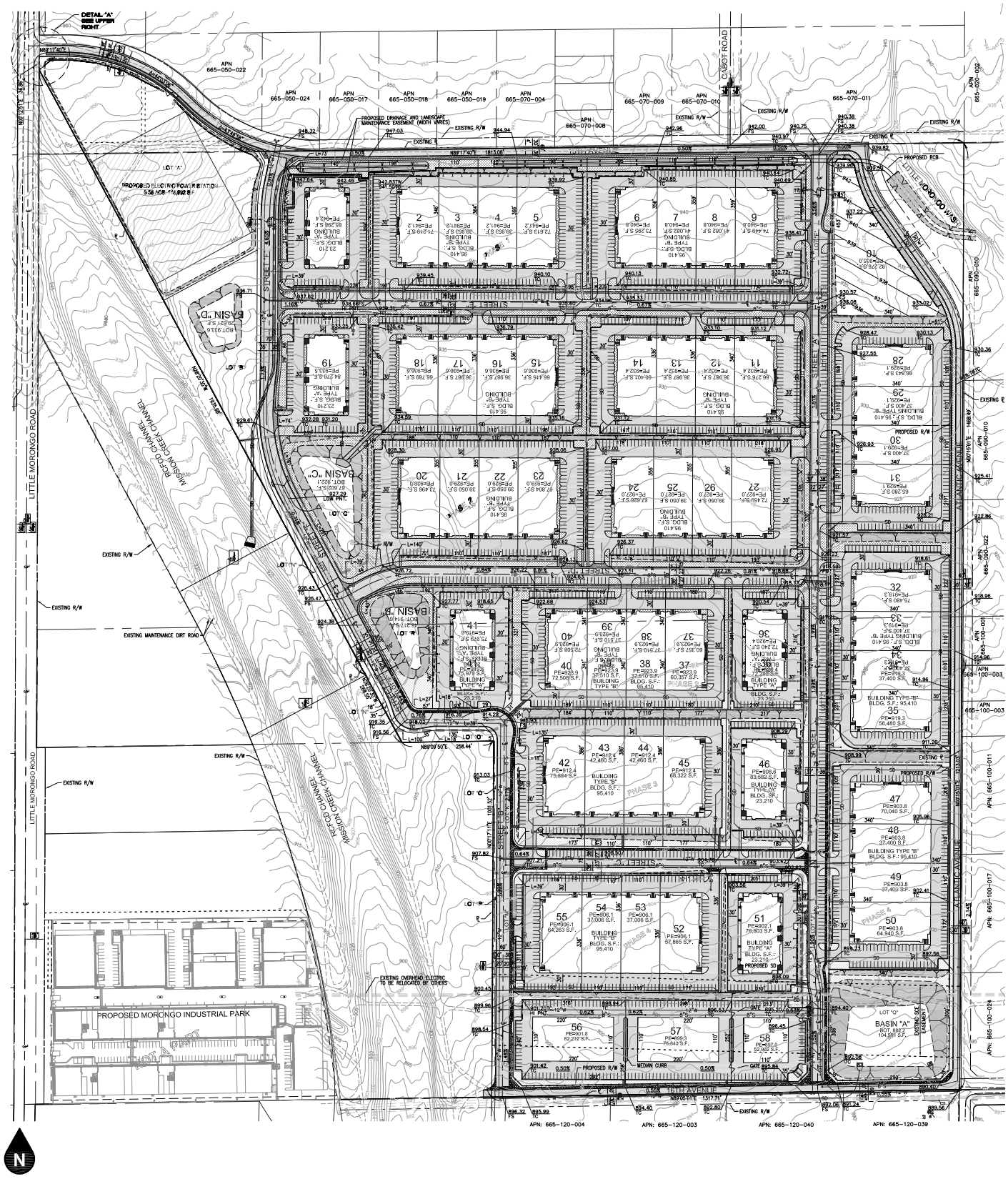
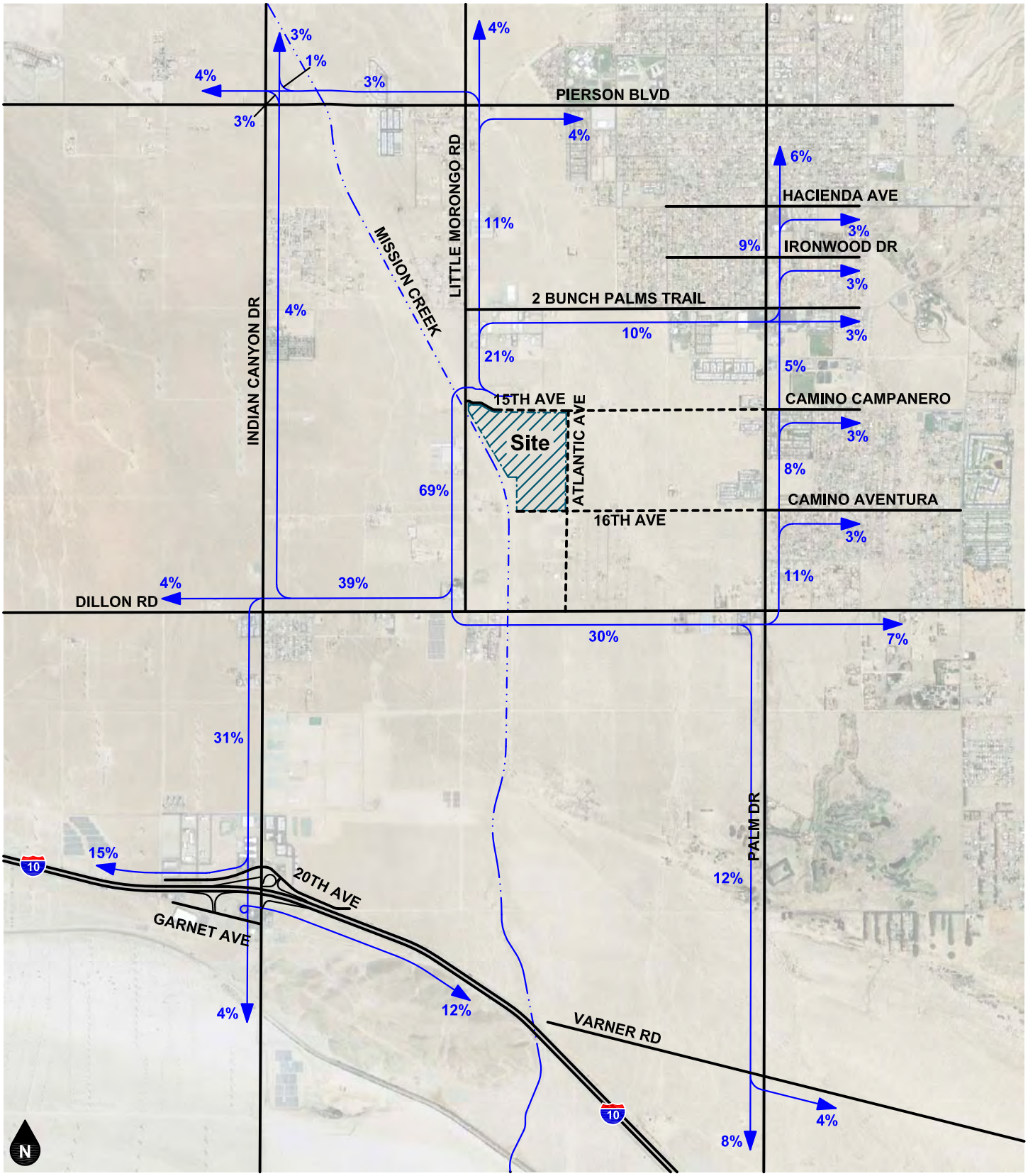


Figure 2
Site Plan



Legend

10% Percent To/From Project

Figure 3
Project Trip Distribution

APPENDIX C

VOLUME COUNT WORKSHEETS

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

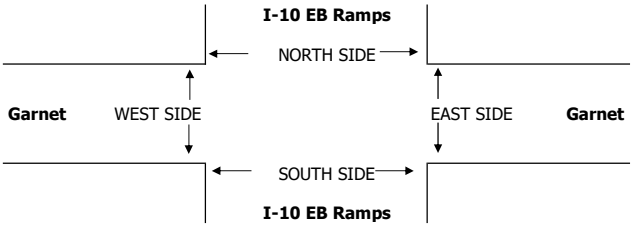
DATE:	LOCATION:	Desert Hot Springs	PROJECT #:	JN6627
Wed, Apr 10, 19	NORTH & SOUTH:	I-10 EB Ramps	LOCATION #:	1
	EAST & WEST:	Garnet	CONTROL:	SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

☑ Add U-Turns to Left Turns

		NORTHBOUND I-10 EB Ramps			SOUTHBOUND I-10 EB Ramps			EASTBOUND Garnet			WESTBOUND Garnet				U-TURNS				
	LANES:	NL X	NT X	NR X	SL 2	ST X	SR 1	EL 1	ET 1	ER X	WL X	WT 1	WR 1	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL
AM	7:00 AM	0	0	0	63	0	3	6	8	0	0	8	31	119	0	0	0	0	0
	7:15 AM	0	0	0	75	0	2	0	6	0	0	18	41	142	0	0	0	0	0
	7:30 AM	0	0	0	85	0	6	4	5	0	0	21	37	158	0	0	0	0	0
	7:45 AM	0	0	0	74	0	4	0	8	0	0	9	26	121	0	0	0	0	0
	8:00 AM	0	0	0	70	0	5	3	10	0	0	9	22	119	0	0	0	0	0
	8:15 AM	0	0	0	49	0	3	2	12	0	0	10	26	102	0	0	0	0	0
	8:30 AM	0	0	0	81	0	0	21	34	0	0	12	25	173	0	0	0	0	0
	8:45 AM	0	0	0	59	0	2	16	19	0	0	11	26	133	0	0	0	0	0
	VOLUMES	0	0	0	556	0	25	52	102	0	0	98	234	1,067	0	0	0	0	0
	APPROACH %	0%	0%	0%	96%	0%	4%	34%	66%	0%	0%	30%	70%						
	APP/DEPART	0	/	286	581	/	0	154	/	658	332	/	123	0					
	BEGIN PEAK HR		7:15 AM																
	VOLUMES	0	0	0	304	0	17	7	29	0	0	57	126	540					
	APPROACH %	0%	0%	0%	95%	0%	5%	19%	81%	0%	0%	31%	69%						
	PEAK HR FACTOR		0.000			0.882			0.643			0.775		0.854					
	APP/DEPART	0	/	133	321	/	0	36	/	333	183	/	74	0					
PM	4:00 PM	0	0	0	32	0	2	4	11	0	0	10	23	82	0	0	0	0	0
	4:15 PM	0	0	0	55	0	3	5	27	0	0	10	29	129	0	0	0	0	0
	4:30 PM	0	0	0	57	0	4	0	12	0	0	14	25	112	0	0	0	0	0
	4:45 PM	0	0	0	43	0	1	3	13	0	0	18	17	95	0	0	0	0	0
	5:00 PM	0	0	0	45	0	3	2	13	0	0	12	22	97	0	0	0	0	0
	5:15 PM	0	0	0	51	0	2	3	12	0	0	12	17	97	0	0	0	0	0
	5:30 PM	0	0	0	40	0	3	3	17	0	0	14	11	88	0	0	0	0	0
	5:45 PM	0	0	0	44	0	1	4	16	0	0	7	12	84	0	0	0	0	0
	VOLUMES	0	0	0	367	0	19	24	121	0	0	97	156	784	0	0	0	0	0
	APPROACH %	0%	0%	0%	95%	0%	5%	17%	83%	0%	0%	38%	62%						
	APP/DEPART	0	/	180	386	/	0	145	/	488	253	/	116	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	0	0	0	200	0	11	10	65	0	0	54	93	433					
	APPROACH %	0%	0%	0%	95%	0%	5%	13%	87%	0%	0%	37%	63%						
	PEAK HR FACTOR		0.000			0.865			0.586			0.942		0.839					
	APP/DEPART	0	/	103	211	/	0	75	/	265	147	/	65	0					



		PEDESTRIAN + BIKE CROSSINGS					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AM BEGIN PEAK HR			7:15 AM			0	0	0	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PM BEGIN PEAK HR			4:15 PM			0	0	0	0	0					

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Wed, Apr 10, 19

LOCATION: Desert Hot Springs
NORTH & SOUTH: Indian Canyon
EAST & WEST: Pierson

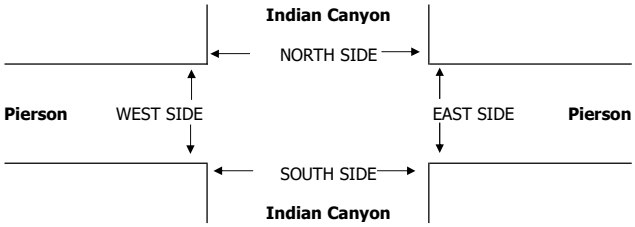
PROJECT #: JN6627
LOCATION #: 2
CONTROL: STOP ALL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

☑ Add U-Turns to Left Turns

		NORTHBOUND Indian Canyon			SOUTHBOUND Indian Canyon			EASTBOUND Pierson			WESTBOUND Pierson				U-TURNS				
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL
AM	7:00 AM	0	25	17	6	57	8	2	22	6	32	11	2	188	0	0	0	0	0
	7:15 AM	4	33	26	16	78	5	10	24	10	44	15	4	269	0	0	0	0	0
	7:30 AM	0	34	23	10	67	16	3	26	4	28	11	4	226	0	0	0	0	0
	7:45 AM	4	38	19	10	44	4	4	24	6	26	12	6	197	0	0	0	0	0
	8:00 AM	0	29	23	12	59	4	4	15	13	29	14	6	208	0	0	0	0	0
	8:15 AM	4	41	12	11	44	2	9	21	7	37	13	2	203	0	0	0	0	0
	8:30 AM	3	32	17	14	61	5	2	19	4	30	16	6	209	0	0	0	0	0
	8:45 AM	5	39	22	12	48	3	2	19	3	19	14	5	191	0	0	0	0	0
	VOLUMES	20	271	159	91	458	47	36	170	53	245	106	35	1,691	0	0	0	0	0
	APPROACH %	4%	60%	35%	15%	77%	8%	14%	66%	20%	63%	27%	9%						
	APP/DEPART	450	/	342	596	/	756	259	/	420	386	/	173	0					
	BEGIN PEAK HR		7:15 AM																
	VOLUMES	8	134	91	48	248	29	21	89	33	127	52	20	900					
	APPROACH %	3%	58%	39%	15%	76%	9%	15%	62%	23%	64%	26%	10%						
	PEAK HR FACTOR		0.925			0.821			0.813			0.790		0.836					
	APP/DEPART	233	/	175	325	/	408	143	/	228	199	/	89	0					
PM	4:00 PM	12	79	27	9	37	8	4	22	2	21	19	16	256	0	0	0	0	0
	4:15 PM	8	75	20	4	40	3	6	32	4	22	17	10	241	0	0	0	0	0
	4:30 PM	6	67	28	9	31	4	2	22	5	22	19	14	229	0	0	0	0	0
	4:45 PM	11	71	33	11	38	0	9	23	3	16	21	20	256	0	0	0	0	0
	5:00 PM	4	67	24	7	36	2	5	17	3	15	21	11	212	0	0	0	0	0
	5:15 PM	7	85	34	8	36	5	8	18	4	16	12	8	241	0	0	0	0	0
	5:30 PM	11	81	36	7	34	1	3	20	4	25	22	11	255	0	0	0	0	0
	5:45 PM	7	67	48	14	14	6	5	18	5	9	10	6	209	0	0	0	0	0
	VOLUMES	66	592	250	69	266	29	42	172	30	146	141	96	1,899	0	0	0	0	0
	APPROACH %	7%	65%	28%	19%	73%	8%	17%	70%	12%	38%	37%	25%						
	APP/DEPART	908	/	730	364	/	442	244	/	491	383	/	236	0					
	BEGIN PEAK HR		4:00 PM																
	VOLUMES	37	292	108	33	146	15	21	99	14	81	76	60	982					
	APPROACH %	8%	67%	25%	17%	75%	8%	16%	74%	10%	37%	35%	28%						
	PEAK HR FACTOR		0.926			0.898			0.798			0.952		0.959					
	APP/DEPART	437	/	373	194	/	241	134	/	240	217	/	128	0					



		PEDESTRIAN + BIKE CROSSINGS					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AM BEGIN PEAK HR	7:15 AM					0	0	0	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PM BEGIN PEAK HR	4:00 PM					0	0	0	0	0					

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

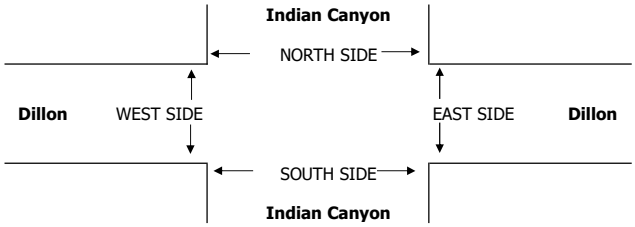
DATE:	LOCATION:	Desert Hot Springs	PROJECT #:	JN6627
Wed, Apr 10, 19	NORTH & SOUTH:	Indian Canyon	LOCATION #:	3
	EAST & WEST:	Dillon	CONTROL:	STOP ALL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

☑ Add U-Turns to Left Turns

		NORTHBOUND Indian Canyon			SOUTHBOUND Indian Canyon			EASTBOUND Dillon			WESTBOUND Dillon				U-TURNS				
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL
AM	7:00 AM	6	44	23	1	93	2	0	13	12	77	15	5	291	0	0	0	0	0
	7:15 AM	4	53	22	2	121	7	1	22	18	95	19	4	368	1	0	0	0	1
	7:30 AM	3	54	40	7	111	5	1	20	15	92	21	4	373	0	0	0	0	0
	7:45 AM	3	42	34	7	85	2	2	23	5	82	17	5	307	0	0	0	0	0
	8:00 AM	2	45	32	5	92	0	0	21	4	75	11	2	289	0	0	0	0	0
	8:15 AM	3	53	32	9	95	0	0	14	3	70	19	1	299	0	0	0	0	0
	8:30 AM	5	49	41	7	87	3	1	19	5	72	19	2	310	0	0	0	0	0
	8:45 AM	3	63	41	4	82	0	4	22	2	78	17	5	321	0	0	0	0	0
	VOLUMES	29	403	265	42	766	19	9	154	64	641	138	28	2,558	1	0	0	0	1
	APPROACH %	4%	58%	38%	5%	93%	2%	4%	68%	28%	79%	17%	3%						
	APP/DEPART	697	/	440	827	/	1,472	227	/	461	807	/	185	0					
	BEGIN PEAK HR		7:00 AM																
	VOLUMES	16	193	119	17	410	16	4	78	50	346	72	18	1,339					
	APPROACH %	5%	59%	36%	4%	93%	4%	3%	59%	38%	79%	17%	4%						
	PEAK HR FACTOR		0.845			0.852			0.805			0.924		0.897					
	APP/DEPART	328	/	215	443	/	807	132	/	214	436	/	103	0					
PM	4:00 PM	2	100	71	4	55	0	1	14	2	48	28	11	336	0	0	0	0	0
	4:15 PM	2	100	75	12	55	0	3	22	6	41	23	10	349	0	0	0	0	0
	4:30 PM	2	107	75	4	49	0	1	21	3	49	20	7	338	0	0	0	0	0
	4:45 PM	6	93	84	7	53	0	0	25	3	40	18	5	334	0	0	0	0	0
	5:00 PM	2	111	65	9	45	1	3	29	5	35	17	6	328	0	0	0	0	0
	5:15 PM	3	132	51	4	57	2	0	16	1	34	18	5	323	0	0	0	0	0
	5:30 PM	4	108	72	8	48	0	1	28	3	43	14	5	334	0	0	0	0	0
	5:45 PM	1	112	62	3	42	0	1	25	1	44	14	5	310	0	0	0	0	0
	VOLUMES	22	863	555	51	404	3	10	180	24	334	152	54	2,652	0	0	0	0	0
	APPROACH %	2%	60%	39%	11%	88%	1%	5%	84%	11%	62%	28%	10%						
	APP/DEPART	1,440	/	927	458	/	762	214	/	786	540	/	177	0					
	BEGIN PEAK HR		4:00 PM																
	VOLUMES	12	400	305	27	212	0	5	82	14	178	89	33	1,357					
	APPROACH %	2%	56%	43%	11%	89%	0%	5%	81%	14%	59%	30%	11%						
	PEAK HR FACTOR		0.974			0.892			0.815			0.862		0.972					
	APP/DEPART	717	/	438	239	/	404	101	/	414	300	/	101	0					



		PEDESTRIAN + BIKE CROSSINGS					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AM BEGIN PEAK HR	7:00 AM					0	0	0	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PM BEGIN PEAK HR	4:00 PM					0	0	0	0	0					

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

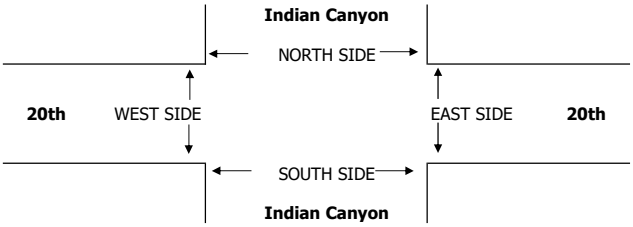
DATE:	LOCATION:	Desert Hot Springs	PROJECT #:	JN6627
Wed, Apr 10, 19	NORTH & SOUTH:	Indian Canyon	LOCATION #:	4
	EAST & WEST:	20th	CONTROL:	SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

☑ Add U-Turns to Left Turns

		NORTHBOUND Indian Canyon			SOUTHBOUND Indian Canyon			EASTBOUND 20th			WESTBOUND 20th				U-TURNS				
	LANES:	NL 1	NT 2	NR 1	SL 1	ST 3	SR 0	EL 1	ET 1	ER 1	WL 2	WT 0.5	WR 1.5	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL
AM	7:00 AM	5	58	0	2	152	8	5	1	20	45	15	29	340	0	0	0	0	0
	7:15 AM	6	79	3	0	243	3	3	0	18	41	18	17	431	1	0	0	0	1
	7:30 AM	4	70	3	0	221	3	3	0	18	86	10	24	442	0	0	0	0	0
	7:45 AM	3	65	0	1	212	2	5	1	8	82	8	24	411	0	0	0	0	0
	8:00 AM	8	68	1	3	159	4	8	0	8	54	2	17	332	1	0	0	0	1
	8:15 AM	5	71	1	4	168	3	6	0	14	73	4	25	374	0	0	0	0	0
	8:30 AM	10	87	3	0	151	4	4	1	17	54	4	31	366	0	0	0	0	0
	8:45 AM	6	74	3	1	155	2	4	0	13	64	4	34	360	2	0	0	0	2
	VOLUMES	47	572	14	11	1,461	29	38	3	116	499	65	201	3,056	4	0	0	0	4
	APPROACH %	7%	90%	2%	1%	97%	2%	24%	2%	74%	65%	8%	26%						
	APP/DEPART	633	/	811	1,501	/	2,080	157	/	28	765	/	137	0					
	BEGIN PEAK HR		7:00 AM																
	VOLUMES	18	272	6	3	828	16	16	2	64	254	51	94	1,624					
	APPROACH %	6%	92%	2%	0%	98%	2%	20%	2%	78%	64%	13%	24%						
	PEAK HR FACTOR		0.841			0.861			0.788			0.831		0.919					
	APP/DEPART	296	/	382	847	/	1,147	82	/	11	399	/	84	0					
PM	4:00 PM	7	145	1	1	111	3	1	1	16	35	11	47	379	0	0	0	0	0
	4:15 PM	12	135	1	0	120	4	5	0	30	49	9	62	427	2	0	0	0	2
	4:30 PM	12	142	1	0	101	4	4	0	21	41	8	49	383	2	0	0	0	2
	4:45 PM	6	172	1	0	109	4	4	0	8	53	4	40	401	0	0	0	0	0
	5:00 PM	13	148	0	0	96	7	9	1	22	69	16	60	441	2	0	0	0	2
	5:15 PM	7	139	3	1	89	3	6	0	15	60	13	64	400	0	0	0	0	0
	5:30 PM	4	132	2	2	92	6	4	0	11	65	6	56	380	1	0	0	0	1
	5:45 PM	7	127	2	1	99	3	6	0	15	47	6	53	366	1	0	0	0	1
	VOLUMES	68	1,140	11	5	817	34	39	2	138	419	73	431	3,177	8	0	0	0	8
	APPROACH %	6%	94%	1%	1%	95%	4%	22%	1%	77%	45%	8%	47%						
	APP/DEPART	1,219	/	1,610	856	/	1,382	179	/	18	923	/	167	0					
	BEGIN PEAK HR		4:15 PM																
	VOLUMES	43	597	3	0	426	19	22	1	81	212	37	211	1,652					
	APPROACH %	7%	93%	0%	0%	96%	4%	21%	1%	78%	46%	8%	46%						
	PEAK HR FACTOR		0.898			0.897			0.743			0.793		0.937					
	APP/DEPART	643	/	830	445	/	725	104	/	4	460	/	93	0					



		PEDESTRIAN + BIKE CROSSINGS					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AM BEGIN PEAK HR	7:00 AM					0	0	0	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PM BEGIN PEAK HR	4:15 PM					0	0	0	0	0					

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

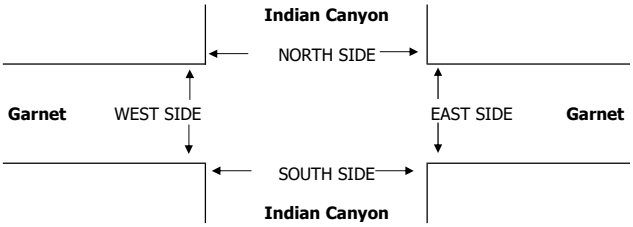
DATE:	LOCATION:	Desert Hot Springs	PROJECT #:	JN6627
Wed, Apr 10, 19	NORTH & SOUTH:	Indian Canyon	LOCATION #:	5
	EAST & WEST:	Garnet	CONTROL:	SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

☑ Add U-Turns to Left Turns

		NORTHBOUND Indian Canyon			SOUTHBOUND Indian Canyon			EASTBOUND Garnet			WESTBOUND Garnet				U-TURNS				
	LANES:	NL 1	NT 3	NR 0	SL 1	ST 2	SR 1	EL 2	ET 1	ER 1	WL 1	WT 1	WR 0	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL
AM	7:00 AM	0	68	4	31	126	30	33	7	28	5	2	3	337	0	27	0	0	27
	7:15 AM	6	92	1	45	173	44	42	3	45	8	2	3	464	0	43	0	0	43
	7:30 AM	3	131	5	38	204	46	33	3	66	3	1	2	535	0	30	0	0	30
	7:45 AM	4	115	1	38	247	30	19	3	51	5	1	4	518	0	31	0	0	31
	8:00 AM	6	103	3	32	150	21	26	3	42	6	1	0	393	0	27	0	0	27
	8:15 AM	3	104	7	26	177	31	40	0	35	3	0	0	426	0	23	0	0	23
	8:30 AM	6	91	4	40	153	36	44	10	62	2	2	0	450	0	32	0	0	32
	8:45 AM	9	93	5	28	156	29	39	3	38	5	0	4	409	0	24	0	0	24
	VOLUMES	37	797	30	278	1,386	267	276	32	367	37	9	16	3,532	0	237	0	0	237
	APPROACH %	4%	92%	3%	14%	72%	14%	41%	5%	54%	60%	15%	26%						
	APP/DEPART	864	/	1,326	1,931	/	1,790	675	/	103	62	/	313	0					
	BEGIN PEAK HR		7:15 AM																
	VOLUMES	19	441	10	153	774	141	120	12	204	22	5	9	1,910					
	APPROACH %	4%	94%	2%	14%	72%	13%	36%	4%	61%	61%	14%	25%						
	PEAK HR FACTOR		0.845			0.848			0.824			0.692		0.893					
	APP/DEPART	470	/	701	1,068	/	1,000	336	/	44	36	/	165	0					
PM	4:00 PM	11	212	3	39	73	27	22	7	21	0	1	1	417	0	35	0	0	35
	4:15 PM	14	161	3	42	96	24	54	2	30	2	1	5	434	0	35	0	0	35
	4:30 PM	7	210	1	31	98	27	44	6	25	4	3	4	460	0	30	0	0	30
	4:45 PM	12	212	6	27	91	24	34	3	18	4	1	4	436	0	24	0	0	24
	5:00 PM	16	199	3	47	86	31	41	4	27	1	1	0	456	0	42	0	0	42
	5:15 PM	10	208	5	37	93	26	35	3	24	0	1	3	445	0	31	0	0	31
	5:30 PM	8	162	1	24	101	15	51	3	17	2	0	1	385	0	20	0	0	20
	5:45 PM	8	166	4	30	95	15	39	3	28	0	3	2	393	0	27	0	0	27
	VOLUMES	86	1,530	26	277	733	189	320	31	190	13	11	20	3,426	0	244	0	0	244
	APPROACH %	5%	93%	2%	23%	61%	16%	59%	6%	35%	30%	25%	45%						
	APP/DEPART	1,642	/	2,114	1,199	/	936	541	/	90	44	/	286	0					
	BEGIN PEAK HR		4:30 PM																
	VOLUMES	45	829	15	142	368	108	154	16	94	9	6	11	1,797					
	APPROACH %	5%	93%	2%	23%	60%	17%	58%	6%	36%	35%	23%	42%						
	PEAK HR FACTOR		0.966			0.942			0.880			0.591		0.977					
	APP/DEPART	889	/	1,121	618	/	471	264	/	46	26	/	159	0					



		PEDESTRIAN + BIKE CROSSINGS					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AM BEGIN PEAK HR			7:15 AM			0	0	0	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PM BEGIN PEAK HR			4:30 PM			0	0	0	0	0					

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

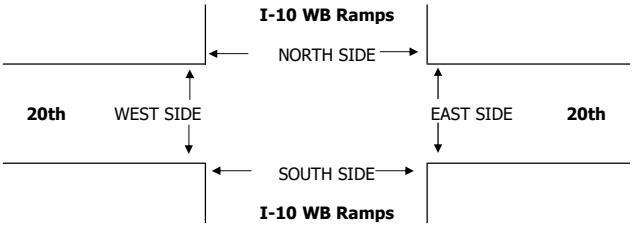
DATE:	LOCATION:	Desert Hot Springs	PROJECT #:	JN6627
Wed, Apr 10, 19	NORTH & SOUTH:	I-10 WB Ramps	LOCATION #:	6
	EAST & WEST:	20th	CONTROL:	SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

☑ Add U-Turns to Left Turns

		NORTHBOUND I-10 WB Ramps			SOUTHBOUND I-10 WB Ramps			EASTBOUND 20th			WESTBOUND 20th				U-TURNS				
	LANES:	NL 2	NT X	NR 1	SL X	ST X	SR X	EL X	ET 1	ER 0	WL 1	WT 2	WR X	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL
AM	7:00 AM	77	0	1	0	0	0	0	1	0	0	6	0	85	0	0	0	0	0
	7:15 AM	74	0	3	0	0	0	0	0	0	0	3	0	80	0	0	0	0	0
	7:30 AM	104	0	1	0	0	0	0	0	0	0	2	0	107	0	0	0	0	0
	7:45 AM	101	0	5	0	0	0	0	1	0	0	2	0	109	0	0	0	0	0
	8:00 AM	79	0	2	0	0	0	0	1	1	0	2	0	85	0	0	0	0	0
	8:15 AM	82	0	1	0	0	0	0	1	0	3	0	0	87	0	0	0	0	0
	8:30 AM	84	0	1	0	0	0	0	1	1	0	1	0	88	0	0	0	0	0
	8:45 AM	88	0	3	0	0	0	0	3	0	0	4	0	98	0	0	0	0	0
	VOLUMES	689	0	17	0	0	0	0	8	2	3	20	0	739	0	0	0	0	0
	APPROACH %	98%	0%	2%	0%	0%	0%	0%	80%	20%	13%	87%	0%						
	APP/DEPART	706	/	0	0	/	5	10	/	25	23	/	709	0					
	BEGIN PEAK HR		7:30 AM																
	VOLUMES	366	0	9	0	0	0	0	3	1	3	6	0	388					
	APPROACH %	98%	0%	2%	0%	0%	0%	0%	75%	25%	33%	67%	0%						
	PEAK HR FACTOR		0.884			0.000			0.500			0.750		0.890					
	APP/DEPART	375	/	0	0	/	4	4	/	12	9	/	372	0					
PM	4:00 PM	96	0	2	0	0	0	0	0	1	1	2	0	102	0	0	0	0	0
	4:15 PM	109	0	1	0	0	0	0	1	1	0	3	0	115	0	0	0	0	0
	4:30 PM	100	0	2	0	0	0	0	1	0	0	2	0	105	0	0	0	0	0
	4:45 PM	102	0	1	0	0	0	0	0	0	1	3	0	107	0	0	0	0	0
	5:00 PM	124	0	3	0	0	0	0	0	1	2	2	0	132	0	0	0	0	0
	5:15 PM	131	0	0	0	0	0	0	1	0	1	3	0	136	0	0	0	0	0
	5:30 PM	125	0	0	0	0	0	0	1	0	1	1	0	128	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	787	0	9	0	0	0	0	4	3	6	16	0	825	0	0	0	0	0
	APPROACH %	99%	0%	1%	0%	0%	0%	0%	57%	43%	27%	73%	0%						
	APP/DEPART	796	/	0	0	/	9	7	/	13	22	/	803	0					
	BEGIN PEAK HR		4:45 PM																
	VOLUMES	482	0	4	0	0	0	0	2	1	5	9	0	503					
	APPROACH %	99%	0%	1%	0%	0%	0%	0%	67%	33%	36%	64%	0%						
	PEAK HR FACTOR		0.927			0.000			0.750			0.875		0.925					
	APP/DEPART	486	/	0	0	/	6	3	/	6	14	/	491	0					



		PEDESTRIAN + BIKE CROSSINGS					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AM BEGIN PEAK HR			7:30 AM			0	0	0	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PM BEGIN PEAK HR			4:45 PM			0	0	0	0	0					

INTERSECTION TURNING MOVEMENT COUNTS

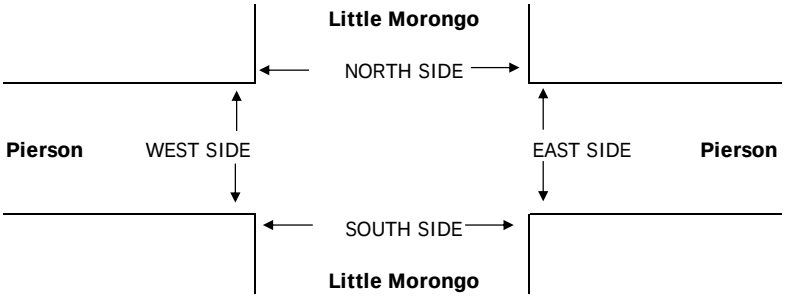
PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Desert Hot Springs	PROJECT #:	SC
Tue, Jun 27, 17	NORTH & SOUTH:	Little Morongo	LOCATION #:	1
	EAST & WEST:	Pierson	CONTROL:	STOP ALL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

		NORTHBOUND Little Morongo			SOUTHBOUND Little Morongo			EASTBOUND Pierson			WESTBOUND Pierson			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 2	ER 0	WL 0	WT 1	WR 1	TOTAL
AM	7:00 AM	3	6	10	5	22	8	0	30	12	2	35	8	141
	7:15 AM	1	8	5	6	27	4	0	17	12	7	37	4	128
	7:30 AM	0	14	3	10	27	6	2	33	10	8	40	9	162
	7:45 AM	3	8	4	5	12	4	1	33	4	9	36	5	124
	8:00 AM	3	11	4	6	22	4	1	24	5	11	35	9	135
	8:15 AM	3	3	3	11	19	2	3	28	5	7	29	5	118
	8:30 AM	2	9	7	7	34	2	2	32	2	7	36	8	148
	8:45 AM	1	12	3	14	24	4	2	26	6	7	29	4	132
	VOLUMES	16	71	39	64	187	34	11	223	56	58	277	52	1,088
	APPROACH %	13%	56%	31%	22%	66%	12%	4%	77%	19%	15%	72%	13%	
	APP/DEPART	126	/	134	285	/	301	290	/	326	387	/	327	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	7	36	22	26	88	22	3	113	38	26	148	26	555
	APPROACH %	11%	55%	34%	19%	65%	16%	2%	73%	25%	13%	74%	13%	
	PEAK HR FACTOR		0.855			0.791			0.856			0.877		0.856
	APP/DEPART	65	/	65	136	/	152	154	/	161	200	/	177	0
PM	4:00 PM	11	19	3	10	13	0	5	36	5	6	35	10	153
	4:15 PM	6	22	7	7	21	4	2	35	4	4	29	12	153
	4:30 PM	7	26	13	12	15	3	7	45	2	3	23	12	168
	4:45 PM	7	22	13	15	13	0	5	55	5	2	28	14	179
	5:00 PM	7	21	9	11	15	4	2	44	5	1	42	19	180
	5:15 PM	8	24	10	14	11	0	3	41	5	3	41	11	171
	5:30 PM	6	21	7	9	14	1	2	45	7	4	37	17	170
	5:45 PM	2	23	5	7	15	2	3	28	6	1	20	17	129
	VOLUMES	54	178	67	85	117	14	29	329	39	24	255	112	1,303
	APPROACH %	18%	60%	22%	39%	54%	6%	7%	83%	10%	6%	65%	29%	
	APP/DEPART	299	/	319	216	/	180	397	/	481	391	/	323	0
	BEGIN PEAK HR		4:45 PM											
	VOLUMES	28	88	39	49	53	5	12	185	22	10	148	61	700
	APPROACH %	18%	57%	25%	46%	50%	5%	5%	84%	10%	5%	68%	28%	
	PEAK HR FACTOR		0.923			0.892			0.842			0.883		0.972
	APP/DEPART	155	/	161	107	/	85	219	/	273	219	/	181	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

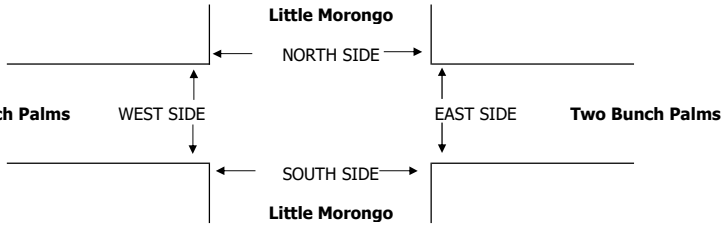
DATE:	LOCATION:	Desert Hot Springs	PROJECT #:	SC1686
Tue, Apr 17, 18	NORTH & SOUTH:	Little Morongo	LOCATION #:	11
	EAST & WEST:	Two Bunch Palms	CONTROL:	STOP ALL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

☑ Add U-Turns to Left Turns

		NORTHBOUND Little Morongo			SOUTHBOUND Little Morongo			EASTBOUND Two Bunch Palms			WESTBOUND Two Bunch Palms				U-TURNS				
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL
AM	7:00 AM	2	6	7	11	36	1	0	0	8	33	2	8	114	0	0	0	0	0
	7:15 AM	0	34	23	22	63	0	0	1	1	43	2	7	196	0	0	0	0	0
	7:30 AM	2	36	22	19	50	1	1	2	10	64	1	7	215	0	0	0	0	0
	7:45 AM	0	37	15	25	48	0	0	4	0	34	1	11	175	0	0	0	0	0
	8:00 AM	0	16	20	18	50	0	0	1	4	46	2	4	161	0	0	0	0	0
	8:15 AM	3	15	30	19	31	0	0	1	1	53	1	11	165	0	0	0	0	0
	8:30 AM	1	13	19	21	31	0	0	5	2	41	3	13	149	0	0	0	0	0
	8:45 AM	2	16	21	15	30	0	0	2	1	32	1	10	130	0	0	0	1	1
	VOLUMES	10	173	157	150	339	2	1	16	27	346	13	71	1,305	0	0	0	1	1
	APPROACH %	3%	51%	46%	31%	69%	0%	2%	36%	61%	80%	3%	17%						
	APP/DEPART	340	/	245	491	/	711	44	/	324	430	/	25	0					
	BEGIN PEAK HR		7:15 AM																
	VOLUMES	2	123	80	84	211	1	1	8	15	187	6	29	747					
	APPROACH %	1%	60%	39%	28%	71%	0%	4%	33%	63%	84%	3%	13%						
	PEAK HR FACTOR		0.854			0.871			0.462			0.771		0.869					
	APP/DEPART	205	/	153	296	/	413	24	/	172	222	/	9	0					
PM	4:00 PM	4	42	57	10	22	2	0	3	0	30	0	24	194	0	0	0	0	0
	4:15 PM	1	39	45	14	28	1	0	4	1	25	3	9	170	0	0	0	0	0
	4:30 PM	3	40	57	9	28	0	0	1	2	32	5	21	198	0	0	0	0	0
	4:45 PM	6	46	44	12	30	0	0	3	1	27	1	15	185	0	0	0	0	0
	5:00 PM	3	55	42	9	20	1	0	1	2	19	2	13	167	0	0	0	0	0
	5:15 PM	1	43	47	17	14	0	0	3	0	17	4	16	162	0	1	0	0	1
	5:30 PM	2	32	60	9	20	1	0	4	0	28	2	8	166	0	0	0	0	0
	5:45 PM	0	37	40	13	24	0	0	2	0	17	1	15	149	0	0	0	0	0
	VOLUMES	20	334	392	93	186	5	0	21	6	195	18	121	1,391	0	1	0	0	1
	APPROACH %	3%	45%	53%	33%	65%	2%	0%	78%	22%	58%	5%	36%						
	APP/DEPART	746	/	456	284	/	387	27	/	505	334	/	43	0					
	BEGIN PEAK HR		4:00 PM																
	VOLUMES	14	167	203	45	108	3	0	11	4	114	9	69	747					
	APPROACH %	4%	43%	53%	29%	69%	2%	0%	73%	27%	59%	5%	36%						
	PEAK HR FACTOR		0.932			0.907			0.750			0.828		0.943					
	APP/DEPART	384	/	236	156	/	226	15	/	259	192	/	26	0					



		PEDESTRIAN + BIKE CROSSINGS					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AM BEGIN PEAK HR			7:15 AM			0	0	0	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PM BEGIN PEAK HR			4:00 PM			0	0	0	0	0					

INTERSECTION TURNING MOVEMENT COUNTS

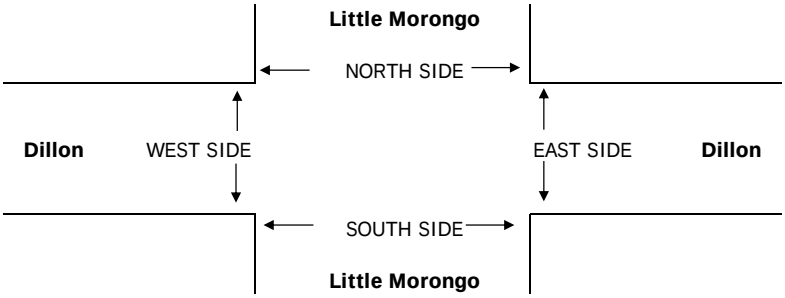
PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Desert Hot Springs	PROJECT #:	SC
Tue, Jun 27, 17	NORTH & SOUTH:	Little Morongo	LOCATION #:	4
	EAST & WEST:	Dillon	CONTROL:	STOP ALL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

		NORTHBOUND Little Morongo			SOUTHBOUND Little Morongo			EASTBOUND Dillon			WESTBOUND Dillon			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 1	ET 1	ER 0	WL 1	WT 1	WR 0	TOTAL
AM	7:00 AM	0	1	0	26	0	34	18	17	0	0	36	15	147
	7:15 AM	0	1	0	28	1	33	7	15	0	0	48	13	146
	7:30 AM	0	0	1	33	0	46	13	19	0	1	51	12	176
	7:45 AM	0	0	0	23	0	41	19	13	0	0	54	11	161
	8:00 AM	0	0	0	25	0	46	15	15	1	0	42	12	156
	8:15 AM	0	0	1	36	0	40	14	28	0	0	53	7	179
	8:30 AM	0	0	0	36	0	37	14	23	0	0	46	9	165
	8:45 AM	0	0	0	26	0	19	13	18	1	0	55	17	149
	VOLUMES	0	2	2	233	1	296	113	148	2	1	385	96	1,279
	APPROACH %	0%	50%	50%	44%	0%	56%	43%	56%	1%	0%	80%	20%	
	APP/DEPART	4	/	211	530	/	4	263	/	383	482	/	681	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	0	0	2	117	0	173	61	75	1	1	200	42	672
	APPROACH %	0%	0%	100%	40%	0%	60%	45%	55%	1%	0%	82%	17%	
	PEAK HR FACTOR		0.500			0.918			0.815			0.935		0.939
	APP/DEPART	2	/	103	290	/	2	137	/	194	243	/	373	0
PM	4:00 PM	1	0	2	19	1	24	40	46	0	1	20	20	174
	4:15 PM	0	0	0	19	1	18	42	40	0	0	41	24	185
	4:30 PM	0	0	1	25	0	29	55	46	0	0	33	32	221
	4:45 PM	0	1	0	12	0	19	56	53	0	0	26	24	191
	5:00 PM	0	0	1	15	0	18	46	44	0	0	32	22	178
	5:15 PM	0	1	0	12	0	21	46	54	0	1	21	25	181
	5:30 PM	0	1	0	17	0	19	37	26	0	0	19	30	149
	5:45 PM	0	0	0	18	0	11	38	40	0	0	28	25	160
	VOLUMES	1	3	4	137	2	159	360	349	0	2	220	202	1,439
	APPROACH %	13%	38%	50%	46%	1%	53%	51%	49%	0%	0%	52%	48%	
	APP/DEPART	8	/	565	298	/	4	709	/	490	424	/	380	0
	BEGIN PEAK HR		4:15 PM											
	VOLUMES	0	1	2	71	1	84	199	183	0	0	132	102	775
	APPROACH %	0%	33%	67%	46%	1%	54%	52%	48%	0%	0%	56%	44%	
	PEAK HR FACTOR		0.750			0.722			0.876			0.900		0.877
	APP/DEPART	3	/	302	156	/	1	382	/	256	234	/	216	0



Counts Unlimited
PO Box 1178
Corona, CA 92878
(951) 268-6268

County of Riverside
N/S: Atlantic Avenue
E/W: Dillon Road
Weather: Clear

File Name : CRV_Atlantic_Dillon AM
Site Code : 07517622
Start Date : 9/19/2017
Page No : 1

Groups Printed- Total Volume

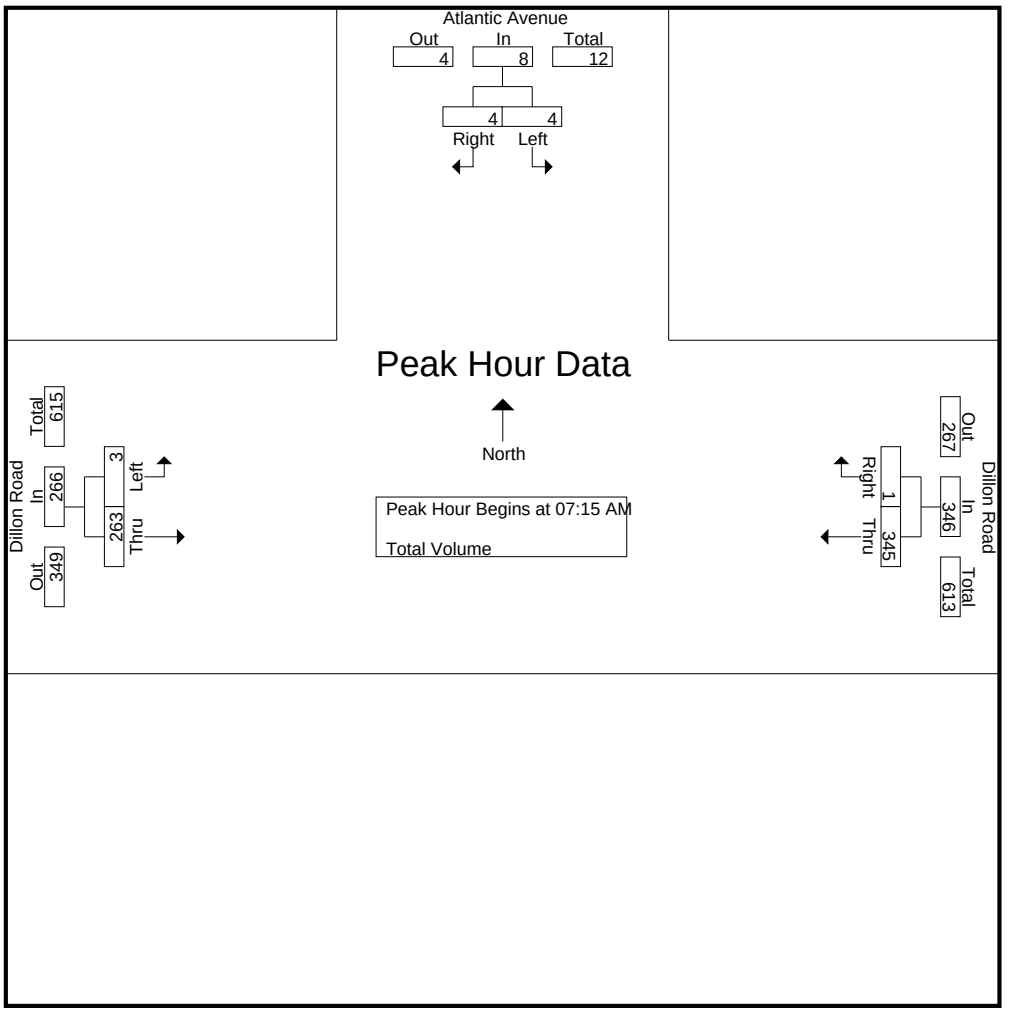
	Atlantic Avenue Southbound			Dillon Road Westbound			Dillon Road Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	0	0	0	49	1	50	0	59	59	109
07:15 AM	2	2	4	78	1	79	1	72	73	156
07:30 AM	2	1	3	86	0	86	0	70	70	159
07:45 AM	0	1	1	91	0	91	1	61	62	154
Total	4	4	8	304	2	306	2	262	264	578
08:00 AM	0	0	0	90	0	90	1	60	61	151
08:15 AM	0	0	0	66	1	67	1	60	61	128
08:30 AM	0	3	3	55	0	55	0	48	48	106
08:45 AM	0	0	0	53	0	53	0	42	42	95
Total	0	3	3	264	1	265	2	210	212	480
Grand Total	4	7	11	568	3	571	4	472	476	1058
Apprch %	36.4	63.6		99.5	0.5		0.8	99.2		
Total %	0.4	0.7	1	53.7	0.3	54	0.4	44.6	45	

	Atlantic Avenue Southbound			Dillon Road Westbound			Dillon Road Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:15 AM										
07:15 AM	**2**	**2**	**4**	78	**1**	79	**1**	**72**	**73**	156
07:30 AM	2	1	3	86	0	86	0	70	70	**159**
07:45 AM	0	1	1	**91**	0	**91**	1	61	62	154
08:00 AM	0	0	0	90	0	90	1	60	61	151
Total Volume	4	4	8	345	1	346	3	263	266	620
% App. Total	50	50		99.7	0.3		1.1	98.9		
PHF	.500	.500	.500	.948	.250	.951	.750	.913	.911	.975

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County of Riverside
N/S: Atlantic Avenue
E/W: Dillon Road
Weather: Clear

File Name : CRV_Atlantic_Dillon AM
Site Code : 07517622
Start Date : 9/19/2017
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:15 AM			07:15 AM		
+0 mins.	0	0	0	78	**1**	79	**1**	**72**	**73**
+15 mins.	**2**	**2**	**4**	86	0	86	0	70	70
+30 mins.	2	1	3	**91**	0	**91**	1	61	62
+45 mins.	0	1	1	90	0	90	1	60	61
Total Volume	4	4	8	345	1	346	3	263	266
% App. Total	50	50		99.7	0.3		1.1	98.9	
PHF	.500	.500	.500	.948	.250	.951	.750	.913	.911

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County of Riverside
N/S: Atlantic Avenue
E/W: Dillon Road
Weather: Clear

File Name : CRV_Atlantic_Dillon PM
Site Code : 07517622
Start Date : 9/19/2017
Page No : 1

Groups Printed- Total Volume

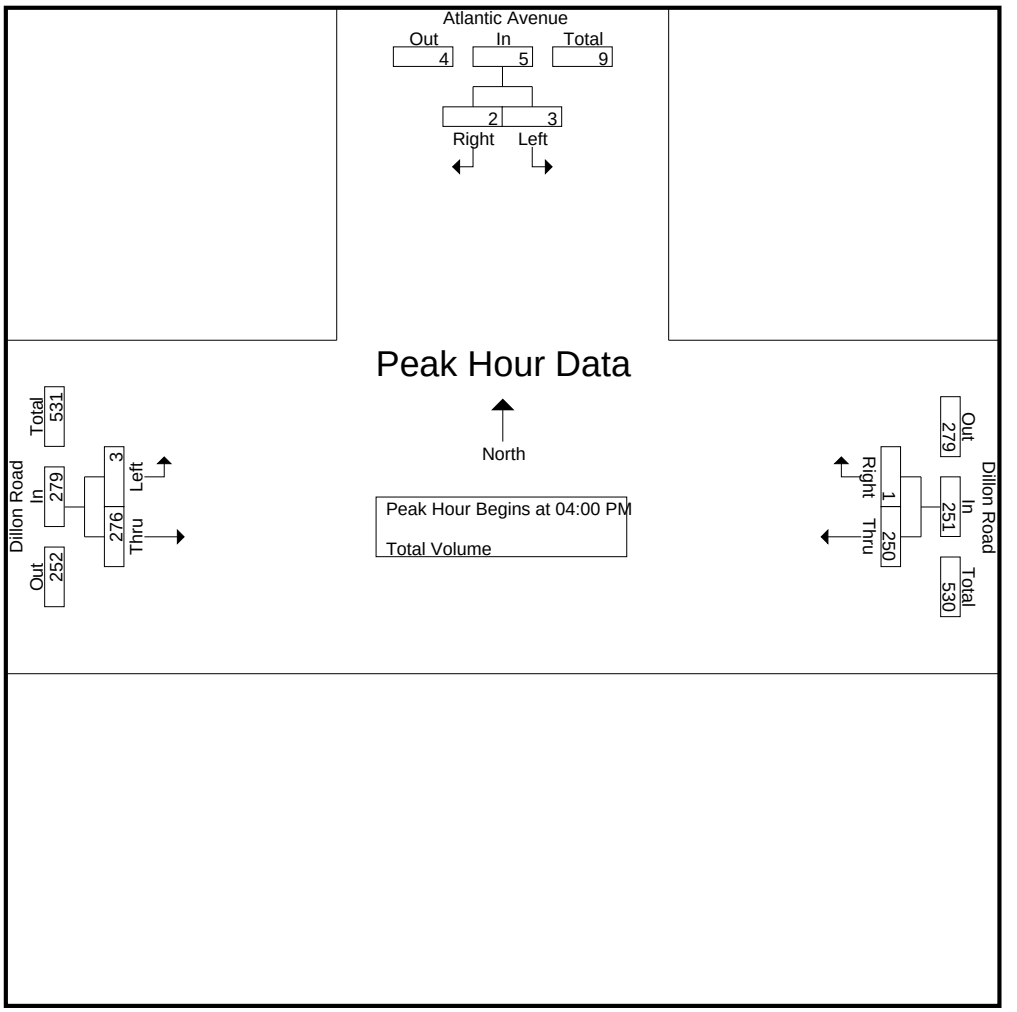
	Atlantic Avenue Southbound			Dillon Road Westbound			Dillon Road Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	2	1	3	67	0	67	2	66	68	138
04:15 PM	1	1	2	57	0	57	1	67	68	127
04:30 PM	0	0	0	56	0	56	0	70	70	126
04:45 PM	0	0	0	70	1	71	0	73	73	144
Total	3	2	5	250	1	251	3	276	279	535
05:00 PM	0	0	0	48	0	48	1	64	65	113
05:15 PM	0	1	1	64	1	65	0	78	78	144
05:30 PM	0	0	0	54	0	54	1	77	78	132
05:45 PM	0	0	0	43	1	44	0	65	65	109
Total	0	1	1	209	2	211	2	284	286	498
Grand Total	3	3	6	459	3	462	5	560	565	1033
Apprch %	50	50		99.4	0.6		0.9	99.1		
Total %	0.3	0.3	0.6	44.4	0.3	44.7	0.5	54.2	54.7	

	Atlantic Avenue Southbound			Dillon Road Westbound			Dillon Road Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:00 PM										
04:00 PM	**2**	**1**	**3**	67	0	67	**2**	66	68	138
04:15 PM	1	1	2	57	0	57	1	67	68	127
04:30 PM	0	0	0	56	0	56	0	70	70	126
04:45 PM	0	0	0	**70**	**1**	**71**	0	**73**	**73**	**144**
Total Volume	3	2	5	250	1	251	3	276	279	535
% App. Total	60	40		99.6	0.4		1.1	98.9		
PHF	.375	.500	.417	.893	.250	.884	.375	.945	.955	.929

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County of Riverside
N/S: Atlantic Avenue
E/W: Dillon Road
Weather: Clear

File Name : CRV_Atlantic_Dillon PM
Site Code : 07517622
Start Date : 9/19/2017
Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM			04:00 PM			04:45 PM		
+0 mins.	**2**	**1**	**3**	67	0	67	0	73	73
+15 mins.	1	1	2	57	0	57	**1**	64	65
+30 mins.	0	0	0	56	0	56	0	**78**	**78**
+45 mins.	0	0	0	**70**	**1**	**71**	1	77	78
Total Volume	3	2	5	250	1	251	2	292	294
% App. Total	60	40		99.6	0.4		0.7	99.3	
PHF	.375	.500	.417	.893	.250	.884	.500	.936	.942

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

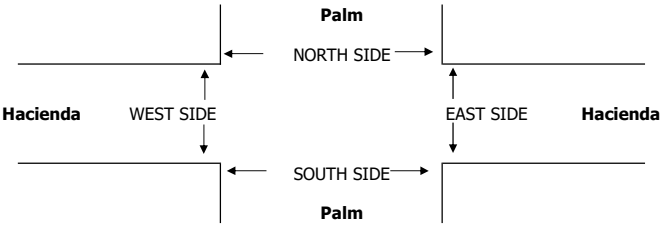
DATE:	LOCATION:	Desert Hot Springs	PROJECT #:	SC1686
Tue, Apr 17, 18	NORTH & SOUTH:	Palm	LOCATION #:	16
	EAST & WEST:	Hacienda	CONTROL:	SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

☑ Add U-Turns to Left Turns

		NORTHBOUND (Palm)			SOUTHBOUND (Palm)			EASTBOUND (Hacienda)			WESTBOUND (Hacienda)				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 2	ER 0	WL 1	WT 1	WR 1	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL
AM	7:00 AM	16	74	7	12	150	0	3	9	18	34	15	27	365	2	0	0	0	2
	7:15 AM	13	140	7	14	190	2	5	16	17	45	23	21	493	0	0	0	0	0
	7:30 AM	16	156	11	21	168	6	4	21	18	26	39	30	516	0	0	0	0	0
	7:45 AM	14	143	11	24	127	5	5	41	27	19	33	30	479	1	0	0	0	1
	8:00 AM	7	126	15	26	172	9	9	46	31	31	26	15	513	1	0	0	0	1
	8:15 AM	10	109	15	31	137	12	5	36	21	48	23	21	468	0	0	0	0	0
	8:30 AM	15	136	12	16	126	4	6	24	24	51	26	22	462	2	0	1	0	3
	8:45 AM	11	123	15	19	145	9	16	11	6	42	25	26	448	0	1	0	0	1
	VOLUMES	102	1,007	93	163	1,215	47	53	204	162	296	210	192	3,744	6	1	1	0	8
	APPROACH %	8%	84%	8%	11%	85%	3%	13%	49%	39%	42%	30%	28%						
	APP/DEPART	1,202	/	1,252	1,425	/	1,679	419	/	459	698	/	354	0					
	BEGIN PEAK HR		7:15 AM																
	VOLUMES	50	565	44	85	657	22	23	124	93	121	121	96	2,001					
	APPROACH %	8%	86%	7%	11%	86%	3%	10%	52%	39%	36%	36%	28%						
	PEAK HR FACTOR		0.900			0.923			0.698			0.889		0.969					
	APP/DEPART	659	/	684	764	/	873	240	/	253	338	/	191	0					
PM	4:00 PM	26	234	22	27	149	6	9	29	18	34	23	35	612	5	0	0	0	5
	4:15 PM	19	191	19	30	131	11	9	33	16	42	25	42	568	2	0	0	0	2
	4:30 PM	15	212	12	32	138	12	11	16	15	33	26	26	548	0	0	0	0	0
	4:45 PM	26	191	15	27	116	7	13	25	19	39	27	29	534	0	0	0	0	0
	5:00 PM	14	197	16	26	139	7	12	25	21	41	31	25	554	4	0	0	0	4
	5:15 PM	28	221	21	33	136	5	8	23	16	38	29	17	575	4	0	0	0	4
	5:30 PM	19	226	20	26	135	8	11	26	22	44	36	25	598	1	0	0	0	1
	5:45 PM	23	236	12	27	131	6	9	27	17	47	30	30	595	1	0	0	0	1
	VOLUMES	170	1,708	137	228	1,075	62	82	204	144	318	227	229	4,584	17	0	0	0	17
	APPROACH %	8%	85%	7%	17%	79%	5%	19%	47%	33%	41%	29%	30%						
	APP/DEPART	2,015	/	2,019	1,365	/	1,554	430	/	569	774	/	442	0					
	BEGIN PEAK HR		5:00 PM																
	VOLUMES	84	880	69	112	541	26	40	101	76	170	126	97	2,322					
	APPROACH %	8%	85%	7%	16%	80%	4%	18%	47%	35%	43%	32%	25%						
	PEAK HR FACTOR		0.953			0.976			0.919			0.918		0.971					
	APP/DEPART	1,033	/	1,017	679	/	797	217	/	282	393	/	226	0					



		PEDESTRIAN + BIKE CROSSINGS					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AM BEGIN PEAK HR			7:15 AM			0	0	0	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PM BEGIN PEAK HR			5:00 PM			0	0	0	0	0					

INTERSECTION TURNING MOVEMENT COUNTS

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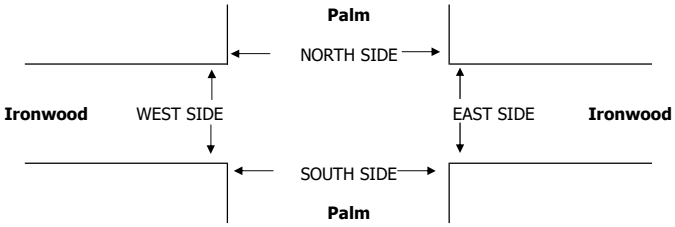
DATE:	LOCATION:	Desert Hot Springs	PROJECT #:	JN6627
Wed, Apr 10, 19	NORTH & SOUTH:	Palm	LOCATION #:	7
	EAST & WEST:	Ironwood	CONTROL:	SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

☑ Add U-Turns to Left Turns

		NORTHBOUND (Palm)			SOUTHBOUND (Palm)			EASTBOUND (Ironwood)			WESTBOUND (Ironwood)				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 1	ER 0	WL 1	WT 1	WR 0	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL
AM	7:00 AM	3	67	2	2	205	2	4	20	5	27	6	17	360	0	0	0	0	0
	7:15 AM	5	132	7	10	194	3	1	10	4	58	25	16	465	0	0	0	0	0
	7:30 AM	4	135	4	9	162	1	4	7	6	34	19	19	404	0	0	0	0	0
	7:45 AM	2	143	4	7	149	2	2	3	8	17	6	7	350	0	0	0	0	0
	8:00 AM	7	151	11	5	183	3	2	11	11	26	7	7	424	0	0	0	0	0
	8:15 AM	2	167	11	4	224	7	11	10	8	24	13	10	491	0	0	0	0	0
	8:30 AM	3	155	10	9	206	2	10	7	9	19	13	5	448	0	0	0	0	0
	8:45 AM	3	161	8	7	165	3	3	6	7	16	9	10	398	0	0	0	0	0
	VOLUMES	29	1,111	57	53	1,488	23	37	74	58	221	98	91	3,340	0	0	0	0	0
	APPROACH %	2%	93%	5%	3%	95%	1%	22%	44%	34%	54%	24%	22%						
	APP/DEPART	1,197	/	1,239	1,564	/	1,767	169	/	184	410	/	150	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	15	634	40	25	778	15	26	34	35	85	42	32	1,761					
	APPROACH %	2%	92%	6%	3%	95%	2%	27%	36%	37%	53%	26%	20%						
	PEAK HR FACTOR		0.957			0.870			0.819			0.846		0.897					
	APP/DEPART	689	/	692	818	/	898	95	/	99	159	/	72	0					
PM	4:00 PM	13	238	27	6	190	4	15	17	8	9	8	13	548	0	2	0	0	2
	4:15 PM	11	223	21	14	161	6	11	10	4	7	7	16	491	0	0	0	0	0
	4:30 PM	17	270	14	9	167	6	8	8	2	11	5	12	529	0	1	0	0	1
	4:45 PM	18	220	18	10	149	6	15	8	5	18	8	11	486	0	0	0	0	0
	5:00 PM	12	253	21	8	202	6	15	9	2	10	7	11	556	0	0	0	0	0
	5:15 PM	18	217	15	8	157	14	17	9	10	10	9	16	500	0	0	0	0	0
	5:30 PM	9	269	18	5	191	12	10	12	3	15	4	10	558	0	0	0	0	0
	5:45 PM	9	275	22	6	155	5	12	6	5	14	9	9	527	0	0	0	0	0
	VOLUMES	107	1,965	156	66	1,372	59	103	79	39	94	57	98	4,195	0	3	0	0	3
	APPROACH %	5%	88%	7%	4%	92%	4%	47%	36%	18%	38%	23%	39%						
	APP/DEPART	2,228	/	2,169	1,497	/	1,505	221	/	298	249	/	223	0					
	BEGIN PEAK HR		5:00 PM																
	VOLUMES	48	1,014	76	27	705	37	54	36	20	49	29	46	2,141					
	APPROACH %	4%	89%	7%	4%	92%	5%	49%	33%	18%	40%	23%	37%						
	PEAK HR FACTOR		0.930			0.890			0.764			0.886		0.959					
	APP/DEPART	1,138	/	1,114	769	/	774	110	/	139	124	/	114	0					



		PEDESTRIAN + BIKE CROSSINGS					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AM BEGIN PEAK HR			8:00 AM			0	0	0	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PM BEGIN PEAK HR			5:00 PM			0	0	0	0	0					

INTERSECTION TURNING MOVEMENT COUNTS

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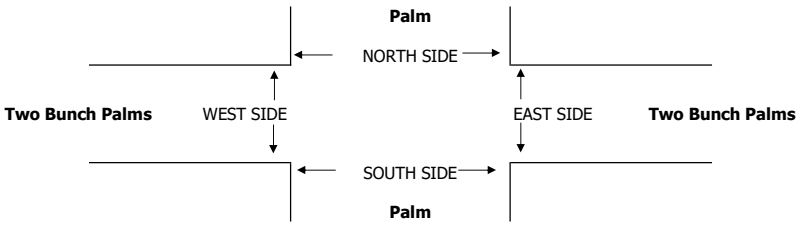
DATE:	LOCATION:	Desert Hot Springs	PROJECT #:	SC1686
Tue, Apr 17, 18	NORTH & SOUTH:	Palm	LOCATION #:	17
	EAST & WEST:	Two Bunch Palms	CONTROL:	SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

☑ Add U-Turns to Left Turns

		NORTHBOUND (Palm)			SOUTHBOUND (Palm)			EASTBOUND (Two Bunch Palms)			WESTBOUND (Two Bunch Palms)				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 1	ER 1	WL 1	WT 1	WR 1	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL
AM	7:00 AM	29	95	39	15	175	6	5	22	85	80	19	5	575	2	2	0	0	4
	7:15 AM	32	149	109	22	256	3	6	67	86	86	42	13	871	3	2	0	0	5
	7:30 AM	57	155	34	24	247	7	10	58	102	67	41	16	818	7	4	0	0	11
	7:45 AM	50	176	19	10	181	8	12	22	100	51	25	6	660	1	0	0	0	1
	8:00 AM	42	114	26	8	201	6	12	35	85	55	31	10	625	4	0	0	0	4
	8:15 AM	63	155	22	12	166	9	13	29	69	50	26	5	619	5	1	1	0	7
	8:30 AM	40	132	17	16	195	9	15	37	77	79	37	7	661	3	2	0	0	5
	8:45 AM	45	152	24	13	176	5	25	43	64	70	22	9	648	3	1	0	0	4
	VOLUMES	358	1,128	290	120	1,597	53	98	313	668	538	243	71	5,477	28	12	1	0	41
	APPROACH %	20%	64%	16%	7%	90%	3%	9%	29%	62%	63%	29%	8%						
	APP/DEPART	1,776	/	1,308	1,770	/	2,831	1,079	/	711	852	/	627	0					
	BEGIN PEAK HR		7:15 AM																
	VOLUMES	181	594	188	64	885	24	40	182	373	259	139	45	2,974					
	APPROACH %	19%	62%	20%	7%	91%	2%	7%	31%	63%	58%	31%	10%						
	PEAK HR FACTOR		0.830			0.866			0.875			0.785		0.854					
	APP/DEPART	963	/	685	973	/	1,532	595	/	428	443	/	329	0					
PM	4:00 PM	37	247	35	27	208	11	23	54	60	51	44	16	813	2	3	0	0	5
	4:15 PM	42	219	36	28	156	8	28	40	50	73	34	14	728	7	2	0	0	9
	4:30 PM	49	190	39	31	152	16	27	43	61	28	33	32	701	3	4	0	0	7
	4:45 PM	57	234	61	23	137	11	29	46	57	50	34	20	759	2	5	0	1	8
	5:00 PM	43	233	38	30	169	4	22	41	57	58	25	19	739	2	3	0	0	5
	5:15 PM	38	257	34	27	161	6	26	43	48	63	40	22	765	2	4	0	0	6
	5:30 PM	48	256	36	28	159	7	25	34	76	71	32	23	795	2	6	0	0	8
	5:45 PM	51	263	42	18	167	4	25	43	47	56	32	29	777	1	4	0	0	5
	VOLUMES	365	1,899	321	212	1,309	67	205	344	456	450	274	175	6,077	21	31	0	1	53
	APPROACH %	14%	73%	12%	13%	82%	4%	20%	34%	45%	50%	30%	19%						
	APP/DEPART	2,585	/	2,310	1,588	/	2,235	1,005	/	847	899	/	685	0					
	BEGIN PEAK HR		5:00 PM																
	VOLUMES	180	1,009	150	103	656	21	98	161	228	248	129	93	3,076					
	APPROACH %	13%	75%	11%	13%	84%	3%	20%	33%	47%	53%	27%	20%						
	PEAK HR FACTOR		0.940			0.961			0.902			0.933		0.967					
	APP/DEPART	1,339	/	1,217	780	/	1,139	487	/	397	470	/	323	0					



		PEDESTRIAN + BIKE CROSSINGS					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AM BEGIN PEAK HR	7:15 AM					0	0	0	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PM BEGIN PEAK HR	5:00 PM					0	0	0	0	0					

INTERSECTION TURNING MOVEMENT COUNTS

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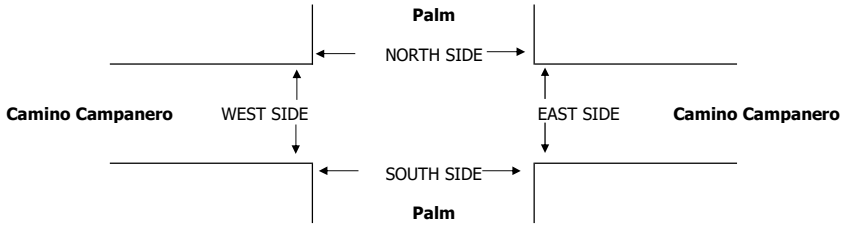
DATE:	LOCATION:	Desert Hot Springs	PROJECT #:	JN6627
Wed, Apr 10, 19	NORTH & SOUTH:	Palm	LOCATION #:	8
	EAST & WEST:	Camino Campanero	CONTROL:	SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

☑ Add U-Turns to Left Turns

		NORTHBOUND Palm			SOUTHBOUND Palm			EASTBOUND Camino Campanero			WESTBOUND Camino Campanero				U-TURNS				
	LANES:	NL X	NT 2	NR 0	SL 1	ST 2	SR X	EL X	ET X	ER X	WL 1	WT X	WR 1	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL
AM	7:00 AM	0	136	1	26	330	0	0	0	0	14	0	36	543	0	0	0	0	0
	7:15 AM	0	219	4	38	405	0	0	0	0	4	0	79	749	0	0	0	0	0
	7:30 AM	0	151	6	57	312	0	0	0	0	7	0	34	567	0	0	0	0	0
	7:45 AM	0	190	7	44	243	0	0	0	0	4	0	41	529	0	0	0	0	0
	8:00 AM	0	187	11	51	274	0	0	0	0	9	0	59	591	0	1	0	0	1
	8:15 AM	0	173	8	46	293	0	0	0	0	16	0	62	598	0	0	0	0	0
	8:30 AM	0	155	7	45	306	0	0	0	0	20	0	72	605	0	0	0	0	0
	8:45 AM	0	163	3	31	260	0	0	0	0	14	0	42	513	0	0	0	0	0
	VOLUMES	0	1,374	47	338	2,423	0	0	0	0	88	0	425	4,695	0	1	0	0	1
	APPROACH %	0%	97%	3%	12%	88%	0%	0%	0%	0%	17%	0%	83%						
	APP/DEPART	1,421	/	1,800	2,761	/	2,511	0	/	384	513	/	0	0					
	BEGIN PEAK HR		7:15 AM																
	VOLUMES	0	747	28	190	1,234	0	0	0	0	24	0	213	2,436					
	APPROACH %	0%	96%	4%	13%	87%	0%	0%	0%	0%	10%	0%	90%						
	PEAK HR FACTOR		0.869			0.804			0.000			0.714		0.813					
	APP/DEPART	775	/	961	1,424	/	1,258	0	/	217	237	/	0	0					
PM	4:00 PM	0	255	7	28	193	0	0	0	0	5	0	37	525	0	0	0	0	0
	4:15 PM	0	270	11	17	228	0	0	0	0	3	0	26	555	0	0	0	0	0
	4:30 PM	0	334	6	37	206	0	0	0	0	10	0	34	627	0	0	0	0	0
	4:45 PM	0	309	10	34	202	0	0	0	0	4	0	42	601	0	0	0	0	0
	5:00 PM	0	301	10	35	242	0	0	0	0	3	0	34	625	0	0	0	0	0
	5:15 PM	0	341	5	32	202	0	0	0	0	6	0	21	607	0	0	0	0	0
	5:30 PM	0	333	12	32	235	0	0	0	0	4	0	45	661	0	0	0	0	0
	5:45 PM	0	293	7	39	205	0	0	0	0	4	0	67	615	0	0	0	0	0
	VOLUMES	0	2,436	68	254	1,713	0	0	0	0	39	0	306	4,816	0	0	0	0	0
	APPROACH %	0%	97%	3%	13%	87%	0%	0%	0%	0%	11%	0%	89%						
	APP/DEPART	2,504	/	2,742	1,967	/	1,752	0	/	322	345	/	0	0					
	BEGIN PEAK HR		5:00 PM																
	VOLUMES	0	1,268	34	138	884	0	0	0	0	17	0	167	2,508					
	APPROACH %	0%	97%	3%	14%	86%	0%	0%	0%	0%	9%	0%	91%						
	PEAK HR FACTOR		0.941			0.922			0.000			0.648		0.949					
	APP/DEPART	1,302	/	1,435	1,022	/	901	0	/	172	184	/	0	0					



		PEDESTRIAN + BIKE CROSSINGS					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AM BEGIN PEAK HR			7:15 AM			0	0	0	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PM BEGIN PEAK HR			5:00 PM			0	0	0	0	0					

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

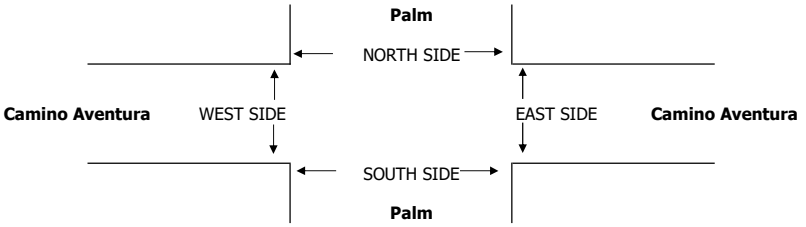
DATE:	LOCATION:	Desert Hot Springs	PROJECT #:	JN6627
Wed, Apr 10, 19	NORTH & SOUTH:	Palm	LOCATION #:	9
	EAST & WEST:	Camino Aventura	CONTROL:	STOP W

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

☑ Add U-Turns to Left Turns

		NORTHBOUND Palm			SOUTHBOUND Palm			EASTBOUND Camino Aventura			WESTBOUND Camino Aventura				U-TURNS				
	LANES:	NL X	NT 2	NR 0	SL 1	ST 2	SR X	EL X	ET X	ER X	WL 0	WT X	WR 0	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL
AM	7:00 AM	0	133	3	7	345	0	0	0	0	7	0	18	513	0	0	0	0	0
	7:15 AM	0	167	4	24	393	0	0	0	0	10	0	38	636	0	0	0	0	0
	7:30 AM	0	138	1	27	310	0	0	0	0	3	0	21	500	0	1	0	0	1
	7:45 AM	0	170	6	19	247	0	0	0	0	4	0	15	461	0	1	0	0	1
	8:00 AM	0	165	6	14	261	0	0	0	0	3	0	19	468	0	1	0	0	1
	8:15 AM	0	166	4	17	292	0	0	0	0	2	0	17	498	0	1	0	0	1
	8:30 AM	0	135	4	15	298	0	0	0	0	8	0	16	476	0	0	0	0	0
	8:45 AM	0	147	8	15	284	0	0	0	0	8	0	15	477	0	1	0	1	2
	VOLUMES	0	1,221	36	138	2,430	0	0	0	0	45	0	159	4,029	0	5	0	1	6
	APPROACH %	0%	97%	3%	5%	95%	0%	0%	0%	0%	22%	0%	78%						
	APP/DEPART	1,257	/	1,385	2,568	/	2,474	0	/	170	204	/	0	0					
	BEGIN PEAK HR		7:00 AM																
	VOLUMES	0	608	14	77	1,295	0	0	0	0	24	0	92	2,110					
	APPROACH %	0%	98%	2%	6%	94%	0%	0%	0%	0%	21%	0%	79%						
	PEAK HR FACTOR		0.884			0.823			0.000			0.604		0.829					
	APP/DEPART	622	/	702	1,372	/	1,319	0	/	89	116	/	0	0					
PM	4:00 PM	0	302	18	21	208	0	0	0	0	7	0	11	567	0	0	0	0	0
	4:15 PM	0	276	25	24	210	0	0	0	0	5	0	22	562	0	2	0	0	2
	4:30 PM	0	340	17	10	220	0	0	0	0	5	0	13	605	0	0	0	0	0
	4:45 PM	0	291	34	12	206	0	0	0	0	5	0	22	570	0	0	0	0	0
	5:00 PM	0	306	18	19	214	0	0	0	0	5	0	12	574	0	0	0	0	0
	5:15 PM	0	342	21	20	187	0	0	0	0	9	0	14	593	0	0	0	0	0
	5:30 PM	0	318	30	15	219	0	0	0	0	3	0	18	603	0	2	0	0	2
	5:45 PM	0	277	25	21	186	0	0	0	0	4	0	16	529	0	1	0	0	1
	VOLUMES	0	2,452	188	142	1,650	0	0	0	0	43	0	128	4,603	0	5	0	0	5
	APPROACH %	0%	93%	7%	8%	92%	0%	0%	0%	0%	25%	0%	75%						
	APP/DEPART	2,640	/	2,585	1,792	/	1,693	0	/	325	171	/	0	0					
	BEGIN PEAK HR		4:30 PM																
	VOLUMES	0	1,279	90	61	827	0	0	0	0	24	0	61	2,342					
	APPROACH %	0%	93%	7%	7%	93%	0%	0%	0%	0%	28%	0%	72%						
	PEAK HR FACTOR		0.943			0.953			0.000			0.787		0.968					
	APP/DEPART	1,369	/	1,340	888	/	851	0	/	151	85	/	0	0					



		PEDESTRIAN + BIKE CROSSINGS					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AM BEGIN PEAK HR			7:00 AM			0	0	0	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PM BEGIN PEAK HR			4:30 PM			0	0	0	0	0					

INTERSECTION TURNING MOVEMENT COUNTS

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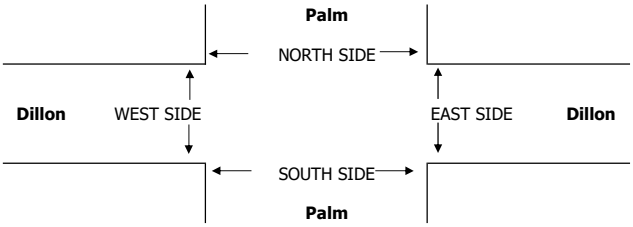
DATE:	LOCATION:	Desert Hot Springs	PROJECT #:	JN6627
Wed, Apr 10, 19	NORTH & SOUTH:	Palm	LOCATION #:	10
	EAST & WEST:	Dillon	CONTROL:	SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

☑ Add U-Turns to Left Turns

		NORTHBOUND (Palm)			SOUTHBOUND (Palm)			EASTBOUND (Dillon)			WESTBOUND (Dillon)				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 1	ER 1	WL 1	WT 1	WR 1	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL
AM	7:00 AM	25	109	10	4	332	12	10	16	52	87	41	14	712	0	0	0	0	0
	7:15 AM	30	118	10	5	310	15	16	8	75	103	61	24	775	0	0	0	0	0
	7:30 AM	30	132	12	8	347	19	5	15	86	83	63	8	808	0	0	0	0	0
	7:45 AM	31	151	12	4	231	6	19	28	49	65	50	13	659	1	0	0	0	1
	8:00 AM	18	126	21	12	233	24	20	17	33	84	37	14	639	0	0	0	0	0
	8:15 AM	27	131	12	10	258	18	18	25	37	70	30	14	650	0	1	0	0	1
	8:30 AM	22	111	18	4	281	24	20	25	38	68	46	10	667	0	0	0	0	0
	8:45 AM	21	104	11	19	249	27	18	34	45	71	40	22	661	1	0	0	0	1
	VOLUMES	204	982	106	66	2,241	145	126	168	415	631	368	119	5,571	2	1	0	0	3
	APPROACH %	16%	76%	8%	3%	91%	6%	18%	24%	59%	56%	33%	11%						
	APP/DEPART	1,292	/	1,228	2,452	/	3,289	709	/	339	1,118	/	715	0					
	BEGIN PEAK HR		7:00 AM																
	VOLUMES	116	510	44	21	1,220	52	50	67	262	338	215	59	2,954					
	APPROACH %	17%	76%	7%	2%	94%	4%	13%	18%	69%	55%	35%	10%						
	PEAK HR FACTOR		0.863			0.864			0.894			0.814		0.914					
	APP/DEPART	670	/	619	1,293	/	1,821	379	/	132	612	/	382	0					
PM	4:00 PM	54	295	68	20	164	22	21	34	35	41	35	24	813	0	0	0	0	0
	4:15 PM	26	287	57	20	160	22	24	36	28	27	21	20	728	0	0	0	0	0
	4:30 PM	36	269	57	23	183	19	28	49	38	50	27	33	812	0	0	1	0	1
	4:45 PM	44	282	66	18	150	20	31	51	32	28	32	25	779	0	0	1	0	1
	5:00 PM	40	281	67	15	189	24	28	36	37	42	17	18	794	0	0	0	0	0
	5:15 PM	47	315	57	25	138	16	25	38	22	41	27	27	778	0	0	0	0	0
	5:30 PM	49	318	58	24	194	13	29	44	20	45	31	33	858	0	0	0	0	0
	5:45 PM	28	257	46	17	151	17	27	36	23	38	30	29	699	0	1	0	0	1
	VOLUMES	324	2,304	476	162	1,329	153	213	324	235	312	220	209	6,261	0	1	2	0	3
	APPROACH %	10%	74%	15%	10%	81%	9%	28%	42%	30%	42%	30%	28%						
	APP/DEPART	3,104	/	2,725	1,644	/	1,876	772	/	961	741	/	699	0					
	BEGIN PEAK HR		4:45 PM																
	VOLUMES	180	1,196	248	82	671	73	113	169	111	156	107	103	3,209					
	APPROACH %	11%	74%	15%	10%	81%	9%	29%	43%	28%	43%	29%	28%						
	PEAK HR FACTOR		0.955			0.894			0.862			0.839		0.935					
	APP/DEPART	1,624	/	1,411	826	/	938	393	/	499	366	/	361	0					



		PEDESTRIAN + BIKE CROSSINGS					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AM BEGIN PEAK HR	7:00 AM					0	0	0	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PM BEGIN PEAK HR	4:45 PM					0	0	0	0	0					

INTERSECTION TURNING MOVEMENT COUNTS

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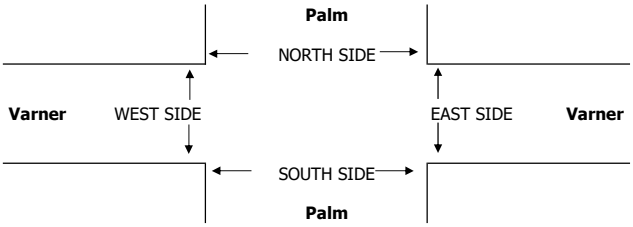
DATE:	LOCATION:	Desert Hot Springs	PROJECT #:	SC1686
Tue, Apr 17, 18	NORTH & SOUTH:	Palm	LOCATION #:	20
	EAST & WEST:	Varner	CONTROL:	SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

☑ Add U-Turns to Left Turns

		NORTHBOUND (Palm)			SOUTHBOUND (Palm)			EASTBOUND (Varner)			WESTBOUND (Varner)				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL
AM	7:00 AM	0	128	4	6	410	0	0	0	0	7	0	3	558	0	0	0	0	0
	7:15 AM	0	158	5	15	478	0	0	0	0	19	0	4	679	0	0	0	0	0
	7:30 AM	0	192	11	8	576	0	0	0	0	20	0	3	810	0	0	0	0	0
	7:45 AM	0	185	7	6	395	0	0	0	0	9	0	5	607	0	1	0	0	1
	8:00 AM	0	145	5	12	291	0	0	0	0	12	0	5	470	0	0	0	0	0
	8:15 AM	0	168	4	4	380	1	0	1	0	12	0	6	576	0	0	0	0	0
	8:30 AM	0	149	4	8	388	0	0	0	0	9	0	4	562	0	0	0	0	0
	8:45 AM	0	168	5	5	324	0	0	0	0	4	0	5	511	0	0	0	0	0
	VOLUMES	0	1,293	45	64	3,242	1	0	1	0	92	0	35	4,773	0	1	0	0	1
	APPROACH %	0%	97%	3%	2%	98%	0%	0%	100%	0%	72%	0%	28%						
	APP/DEPART	1,338	/	1,329	3,307	/	3,334	1	/	109	127	/	1	0					
	BEGIN PEAK HR		7:00 AM																
	VOLUMES	0	663	27	35	1,859	0	0	0	0	55	0	15	2,654					
	APPROACH %	0%	96%	4%	2%	98%	0%	0%	0%	0%	79%	0%	21%						
	PEAK HR FACTOR		0.850			0.811			0.000			0.761		0.819					
	APP/DEPART	690	/	679	1,894	/	1,914	0	/	61	70	/	0	0					
PM	4:00 PM	1	371	9	7	240	0	0	0	1	3	0	16	648	0	0	0	0	0
	4:15 PM	0	359	13	4	247	0	0	0	0	18	0	9	650	0	0	0	0	0
	4:30 PM	0	372	8	4	261	0	0	0	0	9	0	7	661	0	0	0	0	0
	4:45 PM	1	427	12	8	203	0	0	0	1	12	0	9	673	0	0	0	0	0
	5:00 PM	0	344	9	5	220	0	0	0	0	5	0	7	590	0	1	0	0	1
	5:15 PM	0	440	9	3	241	0	0	1	0	5	1	7	707	0	0	0	0	0
	5:30 PM	0	407	6	4	230	0	0	0	0	13	0	6	666	0	0	0	0	0
	5:45 PM	0	405	10	5	172	1	0	0	1	5	0	11	610	0	0	0	0	0
	VOLUMES	2	3,125	76	40	1,814	1	0	1	3	70	1	72	5,205	0	1	0	0	1
	APPROACH %	0%	98%	2%	2%	98%	0%	0%	25%	75%	49%	1%	50%						
	APP/DEPART	3,203	/	3,198	1,855	/	1,887	4	/	116	143	/	4	0					
	BEGIN PEAK HR		4:45 PM																
	VOLUMES	1	1,618	36	20	894	0	0	1	1	35	1	29	2,636					
	APPROACH %	0%	98%	2%	2%	98%	0%	0%	50%	50%	54%	2%	45%						
	PEAK HR FACTOR		0.921			0.936			0.500			0.774		0.932					
	APP/DEPART	1,655	/	1,648	914	/	930	2	/	56	65	/	2	0					



		PEDESTRIAN + BIKE CROSSINGS					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AM BEGIN PEAK HR			7:00 AM			0	0	0	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PM BEGIN PEAK HR			4:45 PM			0	0	0	0	0					

APPENDIX D

LEVEL OF SERVICE WORKSHEETS

Existing

DHS 109

Vistro File: G:\...\AM E.vistro
Report File: G:\...\AM E.pdf

Scenario 1 Existing
4/25/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-10 EB Ramps (NS) at Garnet Ave (EW)	Signalized	HCM 6th Edition	EB Left	0.251	17.5	B
2	Indian Canyon Dr (NS) at Pierson Blvd (EW)	All-way stop	HCM 6th Edition	SB Thru	0.699	16.8	C
3	Indian Canyon Dr (NS) at Dillon Rd (EW)	All-way stop	HCM 6th Edition	WB Left	1.040	54.3	F
4	Indian Canyon Dr (NS) at 20th Ave (EW)	Signalized	HCM 6th Edition	SB Left	0.404	15.1	B
5	Indian Canyon Dr (NS) at Garnet Ave (EW)	Signalized	HCM 6th Edition	SB Left	0.547	17.3	B
6	I-10 WB Ramps (NS) at 20th Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.153	24.7	C
7	Little Morongo Rd (NS) at Pierson Blvd (EW)	All-way stop	HCM 6th Edition	WB Thru	0.322	9.6	A
8	Little Morongo Rd (NS) at 14th Ave/2 Bunch Palms (EW)	All-way stop	HCM 6th Edition	WB Left	0.507	12.6	B
9	Little Morongo Rd (NS) at 15th Ave (EW)	Two-way stop	HCM 6th Edition	WB Left	0.000	13.3	B
10	Little Morongo Rd (NS) at Dillon Rd (EW)	All-way stop	HCM 6th Edition	WB Thru	0.430	11.2	B
11	Atlantic Ave (NS) at Dillon Rd (EW)	Two-way stop	HCM 6th Edition	SB Left	0.009	13.5	B
12	Palm Dr (NS) at Hacienda Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.482	18.7	B
13	Palm Dr (NS) at Ironwood Dr (EW)	Signalized	HCM 6th Edition	NB Left	0.457	13.4	B
14	Palm Dr (NS) at Two Bunch Palms Trail (EW)	Signalized	HCM 6th Edition	EB Right	1.038	58.7	E
15	Palm Dr (NS) at Camino Campanero (EW)	Signalized	HCM 6th Edition	SB Left	0.739	13.1	B
16	Palm Dr (NS) at Camino Aventura (EW)	Two-way stop	HCM 6th Edition	WB Left	0.121	22.1	C
17	Palm Dr (NS) at Dillon Rd (EW)	Signalized	HCM 6th Edition	EB Right	0.993	49.7	D

18	Palm Dr (NS) at Varner Rd (EW)	Signalized	HCM 6th Edition	SB Left	0.793	8.2	A

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-10 EB Ramps (NS) at Garnet Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	17.5
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.251

Intersection Setup

Name	I-10 EB Ramps		Garnet Ave		Garnet Ave	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		No		No	

Volumes

Name	I-10 EB Ramps		Garnet Ave		Garnet Ave	
Base Volume Input [veh/h]	304	17	7	29	57	126
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	304	17	7	29	57	126
Peak Hour Factor	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	89	5	2	8	17	37
Total Analysis Volume [veh/h]	356	20	8	34	67	148
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Permissive	Permissive	Protected	Permissive	Permissive	Overlap
Signal group	1	0	3	8	4	4
Auxiliary Signal Groups						4
Lead / Lag	Lead	-	Lead	-	-	-
Minimum Green [s]	7	0	7	7	7	7
Maximum Green [s]	30	0	30	30	30	30
Amber [s]	3.0	0.0	3.0	3.0	3.0	3.0
All red [s]	1.0	0.0	1.0	1.0	1.0	1.0
Split [s]	23	0	16	37	21	21
Vehicle Extension [s]	3.0	0.0	3.0	3.0	3.0	3.0
Walk [s]	7	0	0	7	7	7
Pedestrian Clearance [s]	10	0	0	10	10	10
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	2.0	2.0	2.0	2.0
I2, Clearance Lost Time [s]	2.0	0.0	2.0	2.0	2.0	2.0
Minimum Recall	No		No	No	No	No
Maximum Recall	No		No	No	No	No
Pedestrian Recall	No		No	No	No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	L	C	C	R
C, Cycle Length [s]	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	9	9	1	43	38	38
g / C, Green / Cycle	0.15	0.15	0.02	0.72	0.64	0.64
(v / s)_i Volume / Saturation Flow Rate	0.10	0.01	0.00	0.02	0.04	0.09
s, saturation flow rate [veh/h]	3459	1589	1781	1870	1870	1589
c, Capacity [veh/h]	508	234	30	1346	1191	1012
d1, Uniform Delay [s]	24.40	22.17	29.22	2.40	4.11	4.37
k, delay calibration	0.11	0.11	0.11	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	1.76	0.16	4.76	0.03	0.09	0.30
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.70	0.09	0.27	0.03	0.06	0.15
d, Delay for Lane Group [s/veh]	26.16	22.32	33.98	2.44	4.20	4.68
Lane Group LOS	C	C	C	A	A	A
Critical Lane Group	Yes	No	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	2.38	0.24	0.15	0.07	0.25	0.60
50th-Percentile Queue Length [ft/ln]	59.49	6.01	3.70	1.86	6.22	14.99
95th-Percentile Queue Length [veh/ln]	4.28	0.43	0.27	0.13	0.45	1.08
95th-Percentile Queue Length [ft/ln]	107.09	10.81	6.67	3.35	11.19	26.98

Movement, Approach, & Intersection Results

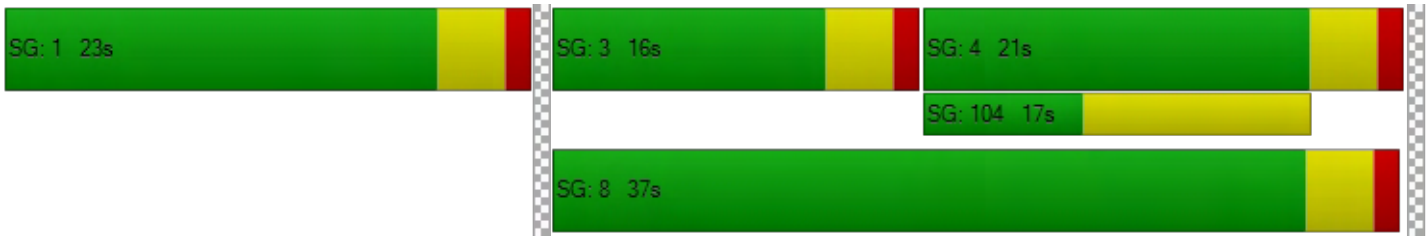
d_M, Delay for Movement [s/veh]	26.16	22.32	33.98	2.44	4.20	4.68
Movement LOS	C	C	C	A	A	A
d_A, Approach Delay [s/veh]	25.96		8.44		4.53	
Approach LOS	C		A		A	
d_I, Intersection Delay [s/veh]	17.52					
Intersection LOS	B					
Intersection V/C	0.251					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	20.01	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	2.238	0.000	0.000
Crosswalk LOS	B	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	30.00	30.00	30.00
l_b,int, Bicycle LOS Score for Intersection	4.132	4.202	4.487
Bicycle LOS	D	D	E

Sequence

Ring 1	1	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 2: Indian Canyon Dr (NS) at Pierson Blvd (EW)

Control Type:	All-way stop	Delay (sec / veh):	16.8
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.699

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Pierson Blvd			Pierson Blvd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			55.00			50.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Pierson Blvd			Pierson Blvd		
Base Volume Input [veh/h]	8	134	91	48	248	29	21	89	33	127	52	20
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	8	134	91	48	248	29	21	89	33	127	52	20
Peak Hour Factor	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	2	40	27	14	74	9	6	27	10	38	16	6
Total Analysis Volume [veh/h]	10	160	109	57	297	35	25	106	39	152	62	24
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	533	598	557	494	556	509
Degree of Utilization, x	0.32	0.18	0.70	0.27	0.07	0.47

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	1.37	0.66	5.51	1.06	0.23	2.46
95th-Percentile Queue Length [ft]	34.13	16.53	137.67	26.45	5.64	61.40
Approach Delay [s/veh]	11.60		23.08	11.92		16.13
Approach LOS	B		C	B		C
Intersection Delay [s/veh]	16.80					
Intersection LOS	C					

Intersection Level Of Service Report
Intersection 3: Indian Canyon Dr (NS) at Dillon Rd (EW)

Control Type:	All-way stop	Delay (sec / veh):	54.3
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.040

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	16	193	119	17	410	16	4	78	50	346	72	18
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	16	193	119	17	410	16	4	78	50	346	72	18
Peak Hour Factor	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	4	54	33	5	114	4	1	22	14	96	20	5
Total Analysis Volume [veh/h]	18	215	133	19	457	18	4	87	56	386	80	20
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	438	481	476	518	409	444	466	518
Degree of Utilization, x	0.53	0.28	1.01	0.03	0.22	0.13	1.04	0.04

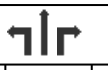
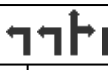
Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	3.04	1.12	13.70	0.11	0.84	0.43	14.39	0.12
95th-Percentile Queue Length [ft]	76.10	27.96	342.62	2.69	21.05	10.73	359.81	3.01
Approach Delay [s/veh]	17.37		69.76		13.24		78.82	
Approach LOS	C		F		B		F	
Intersection Delay [s/veh]	54.30							
Intersection LOS	F							

Intersection Level Of Service Report
Intersection 4: Indian Canyon Dr (NS) at 20th Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	15.1
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.404

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			20th Ave			20th Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	2	0	0
Pocket Length [ft]	157.00	100.00	100.00	82.00	100.00	100.00	75.00	100.00	100.00	190.00	100.00	100.00
Speed [mph]	55.00			55.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			20th Ave			20th Ave		
Base Volume Input [veh/h]	18	272	6	3	828	16	16	2	64	254	51	94
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	18	272	6	3	828	16	16	2	64	254	51	94
Peak Hour Factor	0.9190	0.9190	0.9190	0.9190	0.9190	0.9190	0.9190	0.9190	0.9190	0.9190	0.9190	0.9190
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	5	74	2	1	225	4	4	1	17	69	14	26
Total Analysis Volume [veh/h]	20	296	7	3	901	17	17	2	70	276	55	102
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	65
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	11	11	0	22	22	0	11	19	0	13	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	C	L	C	R	L	C	R
C, Cycle Length [s]	65	65	65	65	65	65	65	65	65	65	65	65
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	2	36	36	0	35	35	2	5	5	7	10	10
g / C, Green / Cycle	0.03	0.56	0.56	0.01	0.53	0.53	0.03	0.08	0.08	0.11	0.16	0.16
(v / s)_i Volume / Saturation Flow Rate	0.01	0.08	0.00	0.00	0.17	0.17	0.01	0.00	0.04	0.08	0.05	0.05
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1852	1781	1870	1589	3459	1766	1589
c, Capacity [veh/h]	62	1977	882	14	1879	978	55	150	127	387	285	257
d1, Uniform Delay [s]	30.74	7.04	6.49	32.20	8.76	8.77	30.96	27.65	28.89	27.97	24.08	24.08
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.93	0.16	0.02	8.02	0.45	0.87	3.17	0.04	3.65	2.44	0.56	0.62
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.32	0.15	0.01	0.22	0.32	0.32	0.31	0.01	0.55	0.71	0.29	0.29
d, Delay for Lane Group [s/veh]	33.67	7.21	6.50	40.22	9.22	9.64	34.13	27.68	32.54	30.41	24.63	24.70
Lane Group LOS	C	A	A	D	A	A	C	C	C	C	C	C
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	0.32	0.69	0.03	0.07	1.75	1.93	0.30	0.03	1.14	2.11	1.11	1.00
50th-Percentile Queue Length [ft/ln]	8.07	17.19	0.80	1.80	43.65	48.32	7.50	0.73	28.45	52.78	27.75	25.11
95th-Percentile Queue Length [veh/ln]	0.58	1.24	0.06	0.13	3.14	3.48	0.54	0.05	2.05	3.80	2.00	1.81
95th-Percentile Queue Length [ft/ln]	14.53	30.94	1.44	3.24	78.57	86.97	13.50	1.31	51.21	95.01	49.94	45.21

Movement, Approach, & Intersection Results

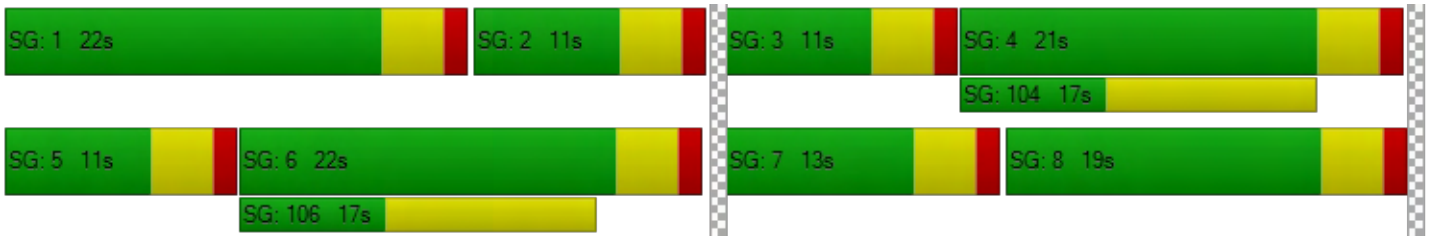
d_M, Delay for Movement [s/veh]	33.67	7.21	6.50	40.22	9.36	9.64	34.13	27.68	32.54	30.41	24.63	24.68
Movement LOS	C	A	A	D	A	A	C	C	C	C	C	C
d_A, Approach Delay [s/veh]	8.83			9.46			32.74			28.33		
Approach LOS	A			A			C			C		
d_I, Intersection Delay [s/veh]	15.14											
Intersection LOS	B											
Intersection V/C	0.404											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	22.43	22.43	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	2.833	2.157	0.000
Crosswalk LOS	F	C	B	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	215	554	462	523
d_b, Bicycle Delay [s]	25.88	16.99	19.23	17.72
l_b,int, Bicycle LOS Score for Intersection	1.826	2.066	1.706	2.274
Bicycle LOS	A	B	A	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 5: Indian Canyon Dr (NS) at Garnet Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	17.3
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.547

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Garnet Ave			Garnet Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	2	0	0	1	0	0
Pocket Length [ft]	132.00	100.00	100.00	223.00	100.00	100.00	166.00	100.00	100.00	75.00	100.00	100.00
Speed [mph]	55.00			55.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			Yes		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Garnet Ave			Garnet Ave		
Base Volume Input [veh/h]	19	441	10	153	774	141	120	12	204	22	5	9
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	19	441	10	153	774	141	120	12	204	22	5	9
Peak Hour Factor	0.8930	0.8930	0.8930	0.8930	0.8930	0.8930	0.8930	0.8930	0.8930	0.8930	0.8930	0.8930
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	5	123	3	43	217	39	34	3	57	6	1	3
Total Analysis Volume [veh/h]	21	494	11	171	867	158	134	13	228	25	6	10
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	65
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	8	7	4	0
Auxiliary Signal Groups									8			
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	7	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	30	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0
Split [s]	11	21	0	12	22	0	11	15	15	17	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	7	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	10	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No	No	No	No	
Maximum Recall	No	No		No	No		No	No	No	No	No	
Pedestrian Recall	No	No		No	No		No	No	No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	R	L	C	R	L	C
C, Cycle Length [s]	65	65	65	65	65	65	65	65	65	65	65
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	2	27	27	8	33	33	6	11	11	3	8
g / C, Green / Cycle	0.03	0.42	0.42	0.12	0.51	0.51	0.10	0.17	0.17	0.04	0.12
(v / s)_i Volume / Saturation Flow Rate	0.01	0.09	0.09	0.10	0.24	0.10	0.04	0.01	0.14	0.01	0.01
s, saturation flow rate [veh/h]	1781	3560	1849	1781	3560	1589	3459	1870	1589	1781	1684
c, Capacity [veh/h]	63	1492	775	214	1794	801	342	327	278	72	196
d1, Uniform Delay [s]	30.68	12.12	12.13	27.91	10.60	8.90	27.51	22.32	25.88	30.42	25.67
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	3.09	0.34	0.67	6.80	0.94	0.55	0.73	0.05	5.92	2.86	0.18
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.33	0.22	0.22	0.80	0.48	0.20	0.39	0.04	0.82	0.35	0.08
d, Delay for Lane Group [s/veh]	33.77	12.47	12.79	34.71	11.54	9.46	28.24	22.37	31.80	33.28	25.85
Lane Group LOS	C	B	B	C	B	A	C	C	C	C	C
Critical Lane Group	Yes	No	No	No	Yes	No	No	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	0.34	1.25	1.38	2.65	3.05	0.99	0.97	0.16	3.66	0.42	0.22
50th-Percentile Queue Length [ft/ln]	8.48	31.31	34.41	66.34	76.34	24.66	24.23	4.05	91.54	10.60	5.53
95th-Percentile Queue Length [veh/ln]	0.61	2.25	2.48	4.78	5.50	1.78	1.74	0.29	6.59	0.76	0.40
95th-Percentile Queue Length [ft/ln]	15.26	56.36	61.94	119.42	137.42	44.38	43.62	7.29	164.77	19.08	9.95

Movement, Approach, & Intersection Results

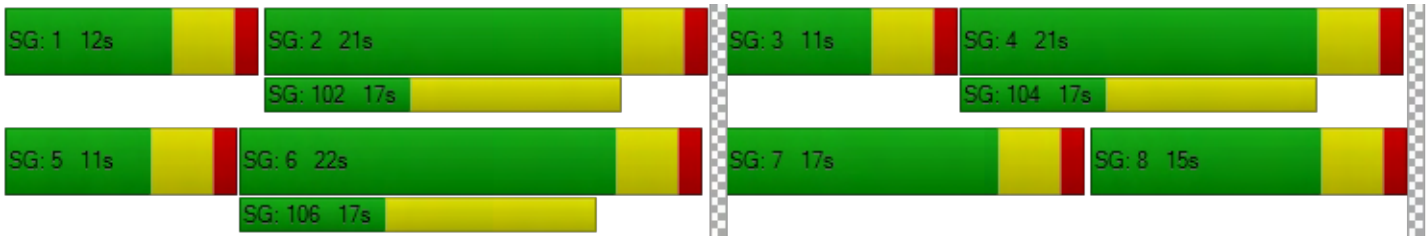
d_M, Delay for Movement [s/veh]	33.77	12.57	12.79	34.71	11.54	9.46	28.24	22.37	31.80	33.28	25.85	25.85
Movement LOS	C	B	B	C	B	A	C	C	C	C	C	C
d_A, Approach Delay [s/veh]	13.42			14.57			30.20			30.38		
Approach LOS	B			B			C			C		
d_I, Intersection Delay [s/veh]	17.34											
Intersection LOS	B											
Intersection V/C	0.547											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	22.43	22.43	22.43
l_p,int, Pedestrian LOS Score for Intersection	0.000	3.044	2.526	1.999
Crosswalk LOS	F	C	B	A
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	523	554	338	523
d_b, Bicycle Delay [s]	17.72	16.99	22.43	17.72
l_b,int, Bicycle LOS Score for Intersection	1.849	2.546	2.178	1.627
Bicycle LOS	A	B	B	A

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 6: I-10 WB Ramps (NS) at 20th Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	24.7
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.153

Intersection Setup

Name	I-10 WB Ramps		20th Ave		20th Ave	
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	1	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	90.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	No		No		No	

Volumes

Name	I-10 WB Ramps		20th Ave		20th Ave	
Base Volume Input [veh/h]	366	9	3	1	3	6
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	366	9	3	1	3	6
Peak Hour Factor	0.8900	0.8900	0.8900	0.8900	0.8900	0.8900
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	103	3	1	0	1	2
Total Analysis Volume [veh/h]	411	10	3	1	3	7
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-
Minimum Green [s]	7	0	7	0	7	7
Maximum Green [s]	30	0	30	0	30	30
Amber [s]	3.0	0.0	3.0	0.0	3.0	3.0
All red [s]	1.0	0.0	1.0	0.0	1.0	1.0
Split [s]	37	0	11	0	12	23
Vehicle Extension [s]	3.0	0.0	3.0	0.0	3.0	3.0
Walk [s]	7	0	7	0	0	7
Pedestrian Clearance [s]	10	0	10	0	0	10
Rest In Walk	No		No			No
I1, Start-Up Lost Time [s]	2.0	0.0	2.0	0.0	2.0	2.0
I2, Clearance Lost Time [s]	2.0	0.0	2.0	0.0	2.0	2.0
Minimum Recall	No		No		No	No
Maximum Recall	No		No		No	No
Pedestrian Recall	No		No		No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	C	L	C
C, Cycle Length [s]	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	10	10	38	0	42
g / C, Green / Cycle	0.17	0.17	0.63	0.01	0.70
(v / s)_i Volume / Saturation Flow Rate	0.12	0.01	0.00	0.00	0.00
s, saturation flow rate [veh/h]	3459	1589	1791	1781	3560
c, Capacity [veh/h]	579	266	1120	14	2490
d1, Uniform Delay [s]	23.66	20.98	4.23	29.67	2.72
k, delay calibration	0.11	0.11	0.50	0.11	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	1.62	0.06	0.01	7.76	0.00
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.71	0.04	0.00	0.22	0.00
d, Delay for Lane Group [s/veh]	25.27	21.04	4.24	37.43	2.72
Lane Group LOS	C	C	A	D	A
Critical Lane Group	Yes	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	2.70	0.12	0.02	0.07	0.01
50th-Percentile Queue Length [ft/ln]	67.52	2.88	0.38	1.77	0.20
95th-Percentile Queue Length [veh/ln]	4.86	0.21	0.03	0.13	0.01
95th-Percentile Queue Length [ft/ln]	121.53	5.18	0.68	3.18	0.37

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	25.27	21.04	4.24	4.24	37.43	2.72
Movement LOS	C	C	A	A	D	A
d_A, Approach Delay [s/veh]	25.17		4.24		13.14	
Approach LOS	C		A		B	
d_I, Intersection Delay [s/veh]	24.70					
Intersection LOS	C					
Intersection V/C	0.153					

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00
I_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000
Crosswalk LOS	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	30.00	30.00	30.00
I_b,int, Bicycle LOS Score for Intersection	4.132	4.139	4.141
Bicycle LOS	D	D	D

Sequence

Ring 1	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 7: Little Morongo Rd (NS) at Pierson Blvd (EW)

Control Type:	All-way stop	Delay (sec / veh):	9.6
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.322

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			Pierson Blvd			Pierson Blvd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			45.00			50.00			50.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			Pierson Blvd			Pierson Blvd		
Base Volume Input [veh/h]	7	36	22	26	88	22	3	113	38	26	148	26
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	7	37	23	27	92	23	3	118	40	27	154	27
Peak Hour Factor	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	2	11	7	8	27	7	1	34	12	8	45	8
Total Analysis Volume [veh/h]	8	43	27	32	107	27	4	138	47	32	180	32
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	710	712	658	758	658	768
Degree of Utilization, x	0.11	0.23	0.22	0.06	0.32	0.04

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.37	0.90	0.82	0.20	1.39	0.13
95th-Percentile Queue Length [ft]	9.22	22.51	20.40	4.95	34.80	3.26
Approach Delay [s/veh]	8.70	9.59	9.20		10.34	
Approach LOS	A	A	A		B	
Intersection Delay [s/veh]	9.65					
Intersection LOS	A					

Intersection Level Of Service Report

Intersection 8: Little Morongo Rd (NS) at 14th Ave/2 Bunch Palms (EW)

Control Type:	All-way stop	Delay (sec / veh):	12.6
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.507

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			14th Ave			Two Bunch Palms Trail		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			30.00			45.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			14th Ave			Two Bunch Palms Trail		
Base Volume Input [veh/h]	2	123	80	84	211	1	1	8	15	187	6	29
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	2	125	82	86	215	1	1	8	15	191	6	30
Peak Hour Factor	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	36	24	25	62	0	0	2	4	55	2	9
Total Analysis Volume [veh/h]	2	144	94	99	247	1	1	9	17	220	7	35
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	700	684	621	545	666
Degree of Utilization, x	0.34	0.51	0.04	0.42	0.05

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	1.53	2.89	0.14	2.04	0.17
95th-Percentile Queue Length [ft]	38.16	72.24	3.41	50.96	4.15
Approach Delay [s/veh]	10.81	13.55	9.07	13.21	
Approach LOS	B	B	A	B	
Intersection Delay [s/veh]	12.56				
Intersection LOS	B				

Intersection Level Of Service Report
Intersection 9: Little Morongo Rd (NS) at 15th Ave (EW)

Control Type:	Two-way stop	Delay (sec / veh):	13.3
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.000

Intersection Setup

Name	Little Morongo Rd		Little Morongo Rd		15th Ave	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		No	

Volumes

Name	Little Morongo Rd		Little Morongo Rd		15th Ave	
Base Volume Input [veh/h]	205	0	0	413	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	205	0	0	413	0	0
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	54	0	0	109	0	0
Total Analysis Volume [veh/h]	216	0	0	435	0	0
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.00	0.00	0.00	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	7.66	0.00	13.31	9.37
Movement LOS	A	A	A	A	B	A
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	0.00		0.00		11.34	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.00					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 10: Little Morongo Rd (NS) at Dillon Rd (EW)

Control Type:	All-way stop	Delay (sec / veh):	11.2
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.430

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	1	0	0	1	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	205.00	100.00	100.00	146.00	100.00	100.00
Speed [mph]	30.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	0	0	2	117	0	173	61	75	1	1	200	42
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	2	122	0	180	63	78	1	1	208	44
Peak Hour Factor	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	1	32	0	48	17	21	0	0	55	12
Total Analysis Volume [veh/h]	0	0	2	130	0	192	67	83	1	1	222	47
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	721	750	577	629	590	658
Degree of Utilization, x	0.00	0.43	0.12	0.13	0.00	0.41

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.01	2.17	0.39	0.46	0.01	1.99
95th-Percentile Queue Length [ft]	0.21	54.26	9.79	11.48	0.13	49.82
Approach Delay [s/veh]	8.00	11.37	9.50		11.89	
Approach LOS	A	B	A		B	
Intersection Delay [s/veh]	11.17					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 11: Atlantic Ave (NS) at Dillon Rd (EW)

Control Type:	Two-way stop	Delay (sec / veh):	13.5
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.009

Intersection Setup

Name	Atlantic Ave		Dillon Rd		Dillon Rd	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		55.00		55.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		No	

Volumes

Name	Atlantic Ave		Dillon Rd		Dillon Rd	
Base Volume Input [veh/h]	4	4	3	263	345	1
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	4	4	3	274	359	1
Peak Hour Factor	0.9750	0.9750	0.9750	0.9750	0.9750	0.9750
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	1	1	70	92	0
Total Analysis Volume [veh/h]	4	4	3	281	368	1
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane	No		
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.01	0.00	0.00	0.00	0.00
d_M, Delay for Movement [s/veh]	13.49	10.42	8.03	0.00	0.00	0.00
Movement LOS	B	B	A	A	A	A
95th-Percentile Queue Length [veh/ln]	0.05	0.05	0.01	0.01	0.00	0.00
95th-Percentile Queue Length [ft/ln]	1.16	1.16	0.19	0.19	0.00	0.00
d_A, Approach Delay [s/veh]	11.96		0.08		0.00	
Approach LOS	B		A		A	
d_I, Intersection Delay [s/veh]	0.18					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 12: Palm Dr (NS) at Hacienda Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	18.7
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.482

Intersection Setup

Name	Palm Dr			Palm Dr			Hacienda Ave			Hacienda Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0
Pocket Length [ft]	110.00	100.00	100.00	90.00	100.00	100.00	70.00	100.00	100.00	80.00	100.00	100.00
Speed [mph]	35.00			35.00			45.00			40.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Hacienda Ave			Hacienda Ave		
Base Volume Input [veh/h]	50	565	44	85	657	22	23	124	93	121	121	96
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	51	576	45	87	670	22	23	126	95	123	123	98
Peak Hour Factor	0.9690	0.9690	0.9690	0.9690	0.9690	0.9690	0.9690	0.9690	0.9690	0.9690	0.9690	0.9690
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	13	149	12	22	173	6	6	33	25	32	32	25
Total Analysis Volume [veh/h]	53	594	46	90	691	23	24	130	98	127	127	101
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	65
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	11	21	0	11	21	0	11	21	0	12	22	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	C	L	C	C	L	C	R
C, Cycle Length [s]	65	65	65	65	65	65	65	65	65	65	65	65
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	4	30	30	6	31	31	3	7	7	6	11	11
g / C, Green / Cycle	0.07	0.46	0.46	0.09	0.48	0.48	0.04	0.11	0.11	0.10	0.17	0.17
(v / s)_i Volume / Saturation Flow Rate	0.03	0.17	0.17	0.05	0.19	0.19	0.01	0.06	0.07	0.07	0.07	0.06
s, saturation flow rate [veh/h]	1781	1870	1823	1781	1870	1849	1781	1870	1616	1781	1870	1589
c, Capacity [veh/h]	122	862	840	158	899	889	72	200	173	176	309	263
d1, Uniform Delay [s]	29.18	11.47	11.47	28.56	10.89	10.89	30.48	27.79	27.95	28.55	24.40	24.29
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.41	1.25	1.29	3.23	1.32	1.34	2.71	2.77	3.88	5.52	0.88	0.92
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.43	0.38	0.38	0.57	0.40	0.40	0.33	0.59	0.64	0.72	0.41	0.38
d, Delay for Lane Group [s/veh]	31.59	12.72	12.76	31.79	12.21	12.23	33.19	30.56	31.83	34.07	25.28	25.21
Lane Group LOS	C	B	B	C	B	B	C	C	C	C	C	C
Critical Lane Group	No	No	Yes	Yes	No	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	0.83	2.89	2.83	1.41	3.11	3.08	0.39	1.74	1.68	2.05	1.68	1.34
50th-Percentile Queue Length [ft/ln]	20.84	72.20	70.77	35.29	77.69	76.94	9.75	43.49	41.88	51.13	41.97	33.42
95th-Percentile Queue Length [veh/ln]	1.50	5.20	5.10	2.54	5.59	5.54	0.70	3.13	3.02	3.68	3.02	2.41
95th-Percentile Queue Length [ft/ln]	37.51	129.96	127.38	63.52	139.85	138.49	17.56	78.28	75.39	92.04	75.55	60.15

Movement, Approach, & Intersection Results

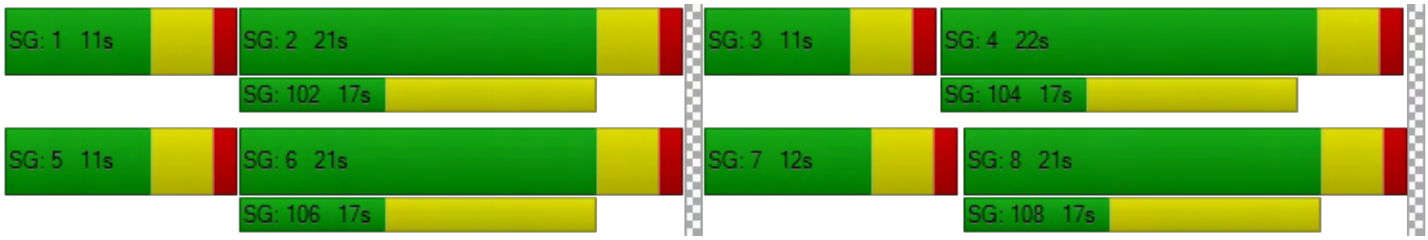
d_M, Delay for Movement [s/veh]	31.59	12.74	12.76	31.79	12.22	12.23	33.19	30.68	31.83	34.07	25.28	25.21
Movement LOS	C	B	B	C	B	B	C	C	C	C	C	C
d_A, Approach Delay [s/veh]	14.18			14.41			31.37			28.40		
Approach LOS	B			B			C			C		
d_I, Intersection Delay [s/veh]	18.73											
Intersection LOS	B											
Intersection V/C	0.482											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	22.43	22.43	22.43	22.43
l_p,int, Pedestrian LOS Score for Intersection	2.648	2.628	2.279	2.443
Crosswalk LOS	B	B	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	523	523	523	554
d_b, Bicycle Delay [s]	17.72	17.72	17.72	16.99
l_b,int, Bicycle LOS Score for Intersection	2.131	2.223	1.768	2.145
Bicycle LOS	B	B	A	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 13: Palm Dr (NS) at Ironwood Dr (EW)

Control Type:	Signalized	Delay (sec / veh):	13.4
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.457

Intersection Setup

Name	Palm Dr			Palm Dr			Ironwood Dr			Ironwood Dr		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0
Pocket Length [ft]	117.00	100.00	100.00	100.00	100.00	100.00	58.00	100.00	100.00	60.00	100.00	100.00
Speed [mph]	35.00			35.00			35.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Ironwood Dr			Ironwood Dr		
Base Volume Input [veh/h]	15	634	40	25	778	15	26	34	35	85	42	32
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	15	634	40	25	778	15	26	34	35	85	42	32
Peak Hour Factor	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	4	177	11	7	217	4	7	9	10	24	12	9
Total Analysis Volume [veh/h]	17	707	45	28	867	17	29	38	39	95	47	36
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	65
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	12	22	0	11	21	0	11	21	0	11	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	C	L	C	L	C
C, Cycle Length [s]	65	65	65	65	65	65	65	65	65	65
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	2	35	35	3	36	36	3	5	6	8
g / C, Green / Cycle	0.03	0.54	0.54	0.04	0.55	0.55	0.05	0.08	0.09	0.13
(v / s)_i Volume / Saturation Flow Rate	0.01	0.20	0.20	0.02	0.24	0.24	0.02	0.04	0.05	0.05
s, saturation flow rate [veh/h]	1781	1870	1831	1781	1870	1857	1781	1717	1781	1737
c, Capacity [veh/h]	55	1004	983	80	1031	1024	82	142	161	220
d1, Uniform Delay [s]	30.96	8.79	8.79	30.23	8.62	8.62	30.18	28.75	28.53	26.14
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	3.17	1.09	1.11	2.57	1.31	1.32	2.54	3.20	3.43	1.07
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.31	0.38	0.38	0.35	0.43	0.43	0.35	0.54	0.59	0.38
d, Delay for Lane Group [s/veh]	34.13	9.87	9.90	32.80	9.93	9.94	32.72	31.95	31.96	27.21
Lane Group LOS	C	A	A	C	A	A	C	C	C	C
Critical Lane Group	Yes	No	No	No	No	Yes	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	0.30	2.79	2.75	0.46	3.26	3.24	0.48	1.21	1.49	1.17
50th-Percentile Queue Length [ft/ln]	7.40	69.87	68.65	11.52	81.61	81.12	11.89	30.36	37.36	29.31
95th-Percentile Queue Length [veh/ln]	0.53	5.03	4.94	0.83	5.88	5.84	0.86	2.19	2.69	2.11
95th-Percentile Queue Length [ft/ln]	13.33	125.77	123.57	20.74	146.90	146.02	21.41	54.66	67.25	52.76

Movement, Approach, & Intersection Results

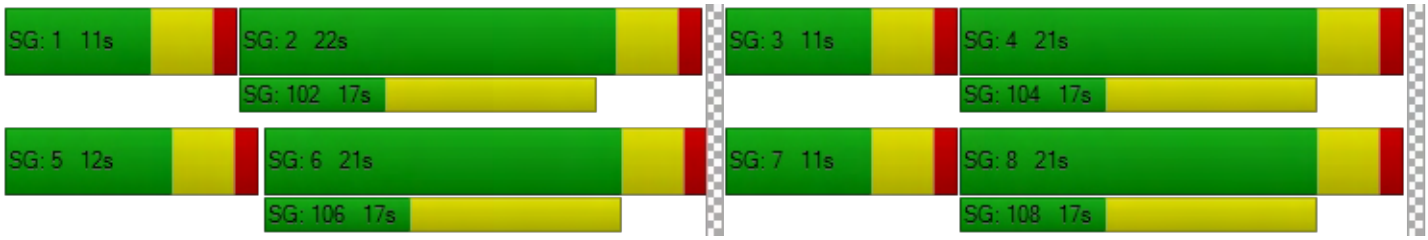
d_M, Delay for Movement [s/veh]	34.13	9.89	9.90	32.80	9.94	9.94	32.72	31.95	31.95	31.96	27.21	27.21
Movement LOS	C	A	A	C	A	A	C	C	C	C	C	C
d_A, Approach Delay [s/veh]	10.42			10.64			32.16			29.75		
Approach LOS	B			B			C			C		
d_I, Intersection Delay [s/veh]	13.45											
Intersection LOS	B											
Intersection V/C	0.457											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	22.43	22.43	22.43	22.43
l_p,int, Pedestrian LOS Score for Intersection	2.770	2.665	1.993	2.032
Crosswalk LOS	C	B	A	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	554	523	523	523
d_b, Bicycle Delay [s]	16.99	17.72	17.72	17.72
l_b,int, Bicycle LOS Score for Intersection	2.194	2.312	1.735	1.853
Bicycle LOS	B	B	A	A

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 14: Palm Dr (NS) at Two Bunch Palms Trail (EW)

Control Type:	Signalized	Delay (sec / veh):	58.7
Analysis Method:	HCM 6th Edition	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.038

Intersection Setup

Name	Palm Dr			Palm Dr			Two Bunch Palms Trail			Two Bunch Palms Trail		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	1
Pocket Length [ft]	96.00	100.00	100.00	101.00	100.00	100.00	95.00	100.00	100.00	70.00	100.00	130.00
Speed [mph]	40.00			35.00			40.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Two Bunch Palms Trail			Two Bunch Palms Trail		
Base Volume Input [veh/h]	181	594	188	64	885	24	40	182	373	259	139	45
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	185	606	192	65	903	24	41	186	380	264	142	46
Peak Hour Factor	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	54	177	56	19	264	7	12	54	111	77	42	13
Total Analysis Volume [veh/h]	217	710	225	76	1057	28	48	218	445	309	166	54
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	100
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	16	23	0	25	32	0	14	31	0	21	38	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	100	100	100	100	100	100	100	100	100	100	100	100
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	12	34	34	6	28	28	5	27	27	17	39	39
g / C, Green / Cycle	0.12	0.34	0.34	0.06	0.28	0.28	0.05	0.27	0.27	0.17	0.39	0.39
(v / s)_i Volume / Saturation Flow Rate	0.12	0.20	0.14	0.04	0.30	0.02	0.03	0.12	0.28	0.17	0.09	0.03
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	214	1210	540	110	1002	447	92	502	427	303	723	615
d1, Uniform Delay [s]	44.01	27.24	25.40	45.99	35.94	26.29	46.21	30.30	36.59	41.51	20.65	19.47
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.40	0.14	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	32.19	2.09	2.36	7.49	44.14	0.27	4.47	0.59	50.65	32.68	0.16	0.06
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	1.01	0.59	0.42	0.69	1.06	0.06	0.52	0.43	1.04	1.02	0.23	0.09
d, Delay for Lane Group [s/veh]	76.20	29.33	27.76	53.48	80.08	26.56	50.68	30.89	87.24	74.19	20.81	19.54
Lane Group LOS	F	C	C	D	F	C	D	C	F	F	C	B
Critical Lane Group	Yes	No	No	No	Yes	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	7.05	7.01	4.29	2.05	17.90	0.51	1.25	4.27	15.90	10.03	2.57	0.79
50th-Percentile Queue Length [ft/ln]	176.15	175.32	107.29	51.29	447.52	12.86	31.24	106.74	397.57	250.74	64.14	19.69
95th-Percentile Queue Length [veh/ln]	11.47	11.36	7.69	3.69	25.67	0.93	2.25	7.66	23.01	15.37	4.62	1.42
95th-Percentile Queue Length [ft/ln]	286.64	283.89	192.22	92.32	641.75	23.14	56.23	191.45	575.34	384.32	115.44	35.45

Movement, Approach, & Intersection Results

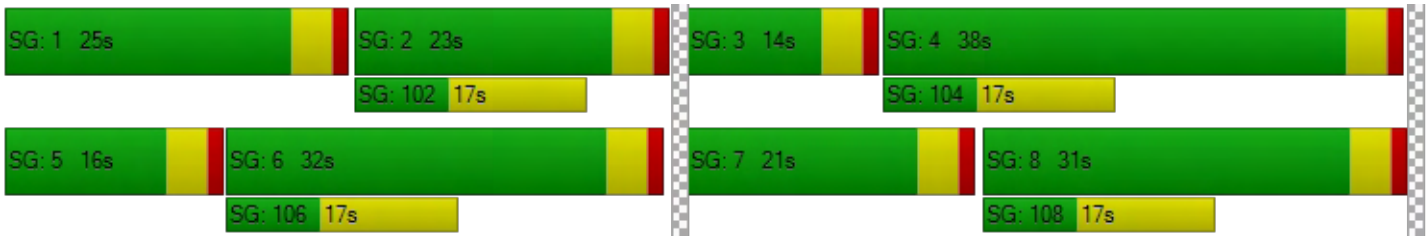
d_M, Delay for Movement [s/veh]	76.20	29.33	27.76	53.48	80.08	26.56	50.68	30.89	87.24	74.19	20.81	19.54
Movement LOS	F	C	C	D	F	C	D	C	F	F	C	B
d_A, Approach Delay [s/veh]	37.85			77.05			67.49			51.86		
Approach LOS	D			E			E			D		
d_I, Intersection Delay [s/veh]	58.68											
Intersection LOS	E											
Intersection V/C	1.038											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	39.61	39.61	39.61	39.61
l_p,int, Pedestrian LOS Score for Intersection	3.100	2.832	2.596	2.434
Crosswalk LOS	C	C	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	380	560	540	680
d_b, Bicycle Delay [s]	32.81	25.92	26.65	21.78
l_b,int, Bicycle LOS Score for Intersection	2.510	2.517	2.733	2.432
Bicycle LOS	B	B	B	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 15: Palm Dr (NS) at Camino Campanero (EW)

Control Type:	Signalized	Delay (sec / veh):	13.1
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.739

Intersection Setup

Name	Palm Dr		Palm Dr		Camino Campanero	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	1	0	0	1
Pocket Length [ft]	100.00	100.00	80.00	100.00	100.00	87.00
Speed [mph]	45.00		40.00		25.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		No		Yes	

Volumes

Name	Palm Dr		Palm Dr		Camino Campanero	
Base Volume Input [veh/h]	747	28	190	1234	24	213
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	747	28	190	1234	24	213
Peak Hour Factor	0.8130	0.8130	0.8130	0.8130	0.8130	0.8130
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	230	9	58	379	7	65
Total Analysis Volume [veh/h]	919	34	234	1518	30	262
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Permissive	Permissive	Protected	Permissive	Split	Split
Signal group	2	0	1	6	7	0
Auxiliary Signal Groups						
Lead / Lag	-	-	Lead	-	Lead	-
Minimum Green [s]	7	0	7	7	7	0
Maximum Green [s]	30	0	30	30	30	0
Amber [s]	3.0	0.0	3.0	3.0	3.0	0.0
All red [s]	1.0	0.0	1.0	1.0	1.0	0.0
Split [s]	21	0	18	39	21	0
Vehicle Extension [s]	3.0	0.0	3.0	3.0	3.0	0.0
Walk [s]	7	0	0	7	7	0
Pedestrian Clearance [s]	10	0	0	10	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	0.0	2.0	2.0	2.0	0.0
Minimum Recall	No		No	No	No	
Maximum Recall	No		No	No	No	
Pedestrian Recall	No		No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	R	L	C	L	R
C, Cycle Length [s]	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	26	26	10	40	12	12
g / C, Green / Cycle	0.44	0.44	0.16	0.67	0.20	0.20
(v / s)_i Volume / Saturation Flow Rate	0.26	0.02	0.13	0.43	0.02	0.16
s, saturation flow rate [veh/h]	3560	1589	1781	3560	1781	1589
c, Capacity [veh/h]	1564	698	289	2379	354	316
d1, Uniform Delay [s]	12.75	9.67	24.29	5.77	19.64	23.12
k, delay calibration	0.50	0.50	0.11	0.50	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	1.63	0.13	5.34	1.32	0.10	5.57
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.59	0.05	0.81	0.64	0.08	0.83
d, Delay for Lane Group [s/veh]	14.38	9.80	29.64	7.09	19.74	28.69
Lane Group LOS	B	A	C	A	B	C
Critical Lane Group	No	No	No	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	3.93	0.23	3.30	3.33	0.34	3.85
50th-Percentile Queue Length [ft/ln]	98.13	5.65	82.50	83.28	8.43	96.36
95th-Percentile Queue Length [veh/ln]	7.07	0.41	5.94	6.00	0.61	6.94
95th-Percentile Queue Length [ft/ln]	176.64	10.17	148.51	149.90	15.18	173.45

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	14.38	9.80	29.64	7.09	19.74	28.69
Movement LOS	B	A	C	A	B	C
d_A, Approach Delay [s/veh]	14.21		10.11		27.77	
Approach LOS	B		B		C	
d_I, Intersection Delay [s/veh]	13.13					
Intersection LOS	B					
Intersection V/C	0.739					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	0.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	20.01	0.00	20.01
l_p,int, Pedestrian LOS Score for Intersection	3.009	0.000	2.069
Crosswalk LOS	C	F	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	30.00	30.00	30.00
l_b,int, Bicycle LOS Score for Intersection	4.919	5.578	4.132
Bicycle LOS	E	F	D

Sequence

Ring 1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 16: Palm Dr (NS) at Camino Aventura (EW)

Control Type:	Two-way stop	Delay (sec / veh):	22.1
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.121

Intersection Setup

Name	Palm Dr		Palm Dr		Camino Aventura	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	1	0	0	0
Pocket Length [ft]	100.00	100.00	200.00	100.00	100.00	100.00
Speed [mph]	45.00		45.00		40.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		Yes	

Volumes

Name	Palm Dr		Palm Dr		Camino Aventura	
Base Volume Input [veh/h]	608	14	77	1295	24	92
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	608	14	77	1295	24	92
Peak Hour Factor	0.8290	0.8290	0.8290	0.8290	0.8290	0.8290
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	183	4	23	391	7	28
Total Analysis Volume [veh/h]	733	17	93	1562	29	111
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			Yes
Number of Storage Spaces in Median	0	0	2

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.11	0.02	0.12	0.18
d_M, Delay for Movement [s/veh]	0.00	0.00	9.72	0.00	22.06	11.93
Movement LOS	A	A	A	A	C	B
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.36	0.00	0.41	0.63
95th-Percentile Queue Length [ft/ln]	0.00	0.00	9.12	0.00	10.16	15.87
d_A, Approach Delay [s/veh]	0.00		0.55		14.03	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	1.13					
Intersection LOS	C					

Intersection Level Of Service Report
Intersection 17: Palm Dr (NS) at Dillon Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	49.7
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.993

Intersection Setup

Name	Palm Dr			Palm Dr			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	1	1	0	1
Pocket Length [ft]	150.00	100.00	100.00	150.00	100.00	100.00	155.00	100.00	155.00	140.00	100.00	140.00
Speed [mph]	60.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	116	510	44	21	1220	52	50	67	262	338	215	59
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	116	510	44	21	1220	52	50	67	262	338	215	59
Peak Hour Factor	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	32	139	12	6	334	14	14	18	72	92	59	16
Total Analysis Volume [veh/h]	127	558	48	23	1335	57	55	73	287	370	235	65
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	100
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	12	42	0	11	41	0	12	22	0	25	35	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	100	100	100	100	100	100	100	100	100	100	100	100
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	8	42	42	3	37	37	6	18	18	21	33	33
g / C, Green / Cycle	0.08	0.42	0.42	0.03	0.37	0.37	0.06	0.18	0.18	0.21	0.33	0.33
(v / s)_i Volume / Saturation Flow Rate	0.07	0.16	0.03	0.01	0.37	0.04	0.03	0.04	0.18	0.21	0.13	0.04
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	143	1488	664	60	1322	590	99	334	284	374	623	530
d1, Uniform Delay [s]	45.56	20.11	17.48	47.33	31.46	20.52	46.07	35.14	41.10	39.41	25.45	23.20
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.16	0.23	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	16.20	0.72	0.21	3.98	27.27	0.33	4.85	0.33	32.95	28.74	0.38	0.10
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.89	0.38	0.07	0.38	1.01	0.10	0.56	0.22	1.01	0.99	0.38	0.12
d, Delay for Lane Group [s/veh]	61.77	20.83	17.69	51.31	58.73	20.85	50.92	35.46	74.05	68.15	25.82	23.30
Lane Group LOS	E	C	B	D	F	C	D	D	F	E	C	C
Critical Lane Group	Yes	No	No	No	Yes	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	3.56	4.10	0.63	0.60	19.16	0.85	1.39	1.46	9.09	11.36	3.96	1.00
50th-Percentile Queue Length [ft/ln]	88.96	102.48	15.74	14.96	478.93	21.24	34.87	36.44	227.17	284.00	98.95	24.92
95th-Percentile Queue Length [veh/ln]	6.41	7.38	1.13	1.08	26.52	1.53	2.51	2.62	14.11	16.89	7.12	1.79
95th-Percentile Queue Length [ft/ln]	160.13	184.46	28.34	26.93	663.07	38.23	62.77	65.58	352.73	422.19	178.11	44.85

Movement, Approach, & Intersection Results

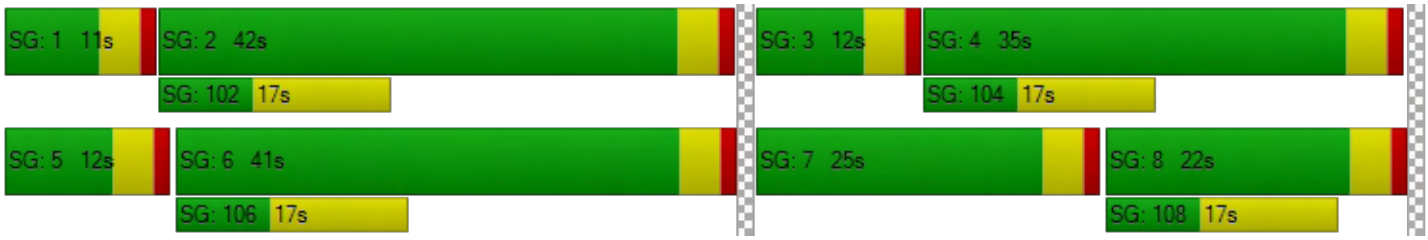
d_M, Delay for Movement [s/veh]	61.77	20.83	17.69	51.31	58.73	20.85	50.92	35.46	74.05	68.15	25.82	23.30
Movement LOS	E	C	B	D	F	C	D	D	F	E	C	C
d_A, Approach Delay [s/veh]	27.72			57.09			64.20			48.95		
Approach LOS	C			E			E			D		
d_I, Intersection Delay [s/veh]	49.66											
Intersection LOS	D											
Intersection V/C	0.993											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	39.61	39.61	39.61	39.61
l_p,int, Pedestrian LOS Score for Intersection	3.358	3.133	2.509	2.500
Crosswalk LOS	C	C	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	760	740	360	620
d_b, Bicycle Delay [s]	19.22	19.85	33.62	23.81
l_b,int, Bicycle LOS Score for Intersection	2.164	2.727	2.244	2.665
Bicycle LOS	B	B	B	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 18: Palm Dr (NS) at Varner Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	8.2
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.793

Intersection Setup

Name	Palm Dr			Palm Dr			Varner Rd			Varner Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	0	0	0	0	0	0
Pocket Length [ft]	173.00	100.00	100.00	195.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	60.00			60.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Varner Rd			Varner Rd		
Base Volume Input [veh/h]	0	663	27	35	1859	0	0	0	0	55	0	15
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	676	28	36	1896	0	0	0	0	56	0	15
Peak Hour Factor	0.8190	0.8190	0.8190	0.8190	0.8190	0.8190	0.8190	0.8190	0.8190	0.8190	0.8190	0.8190
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	206	9	11	579	0	0	0	0	17	0	5
Total Analysis Volume [veh/h]	0	825	34	44	2315	0	0	0	0	68	0	18
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	110
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	5	2	0	1	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	-	-	-	-	-	-
Minimum Green [s]	7	7	0	7	7	0	0	7	0	0	7	0
Maximum Green [s]	30	30	0	30	30	0	0	30	0	0	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	11	76	0	13	78	0	0	21	0	0	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall	No	No		No	No			No			No	
Maximum Recall	No	No		No	No			No			No	
Pedestrian Recall	No	No		No	No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	C	C
C, Cycle Length [s]	110	110	110	110	110	110	110	110
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	0	85	85	5	90	90	8	8
g / C, Green / Cycle	0.00	0.78	0.78	0.05	0.82	0.82	0.07	0.07
(v / s)_i Volume / Saturation Flow Rate	0.00	0.23	0.02	0.02	0.65	0.00	0.00	0.06
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1397	1534
c, Capacity [veh/h]	1	2758	1231	85	2925	1306	129	164
d1, Uniform Delay [s]	0.00	3.64	2.86	51.16	5.01	0.00	0.00	50.33
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.00	0.28	0.04	4.88	2.28	0.00	0.00	2.57
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.00	0.30	0.03	0.52	0.79	0.00	0.00	0.52
d, Delay for Lane Group [s/veh]	0.00	3.91	2.90	56.04	7.29	0.00	0.00	52.90
Lane Group LOS	A	A	A	E	A	A	A	D
Critical Lane Group	No	No	No	No	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	0.00	1.51	0.11	1.24	4.84	0.00	0.00	2.34
50th-Percentile Queue Length [ft/ln]	0.00	37.81	2.63	30.91	121.01	0.00	0.00	58.52
95th-Percentile Queue Length [veh/ln]	0.00	2.72	0.19	2.23	8.45	0.00	0.00	4.21
95th-Percentile Queue Length [ft/ln]	0.00	68.07	4.73	55.63	211.22	0.00	0.00	105.33

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	0.00	3.91	2.90	56.04	7.29	0.00	0.00	0.00	0.00	52.90	52.90	52.90
Movement LOS	A	A	A	E	A	A	A	A	A	D	D	D
d_A, Approach Delay [s/veh]	3.87			8.20			0.00			52.90		
Approach LOS	A			A			A			D		
d_I, Intersection Delay [s/veh]	8.24											
Intersection LOS	A											
Intersection V/C	0.793											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	44.55	44.55	44.55
l_p,int, Pedestrian LOS Score for Intersection	0.000	3.495	1.724	1.871
Crosswalk LOS	F	C	A	A
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	1309	1345	309	309
d_b, Bicycle Delay [s]	6.56	5.89	39.31	39.31
l_b,int, Bicycle LOS Score for Intersection	2.268	3.506	1.560	1.702
Bicycle LOS	B	D	A	A

Sequence

Ring 1	1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



DHS 109

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Scenario 1 Existing
4/25/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-10 EB Ramps (NS) at Garnet Ave (EW)	Signalized	HCM 6th Edition	EB Left	0.182	15.3	B
2	Indian Canyon Dr (NS) at Pierson Blvd (EW)	All-way stop	HCM 6th Edition	NB Thru	0.589	14.1	B
3	Indian Canyon Dr (NS) at Dillon Rd (EW)	All-way stop	HCM 6th Edition	NB Thru	0.777	20.2	C
4	Indian Canyon Dr (NS) at 20th Ave (EW)	Signalized	HCM 6th Edition	EB Left	0.396	16.2	B
5	Indian Canyon Dr (NS) at Garnet Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.406	14.7	B
6	I-10 WB Ramps (NS) at 20th Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.194	23.7	C
7	Little Morongo Rd (NS) at Pierson Blvd (EW)	All-way stop	HCM 6th Edition	EB Thru	0.328	10.0	B
8	Little Morongo Rd (NS) at 14th Ave/2 Bunch Palms (EW)	All-way stop	HCM 6th Edition	NB Right	0.519	11.1	B
9	Little Morongo Rd (NS) at 15th Ave (EW)	Two-way stop	HCM 6th Edition	WB Left	0.000	13.2	B
10	Little Morongo Rd (NS) at Dillon Rd (EW)	All-way stop	HCM 6th Edition	EB Left	0.409	11.3	B
11	Atlantic Ave (NS) at Dillon Rd (EW)	Two-way stop	HCM 6th Edition	SB Left	0.006	12.8	B
12	Palm Dr (NS) at Hacienda Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.651	21.3	C
13	Palm Dr (NS) at Ironwood Dr (EW)	Signalized	HCM 6th Edition	WB Right	0.510	13.8	B
14	Palm Dr (NS) at Two Bunch Palms Trail (EW)	Signalized	HCM 6th Edition	WB Left	0.854	29.6	C
15	Palm Dr (NS) at Camino Campanero (EW)	Signalized	HCM 6th Edition	SB Left	0.709	11.2	B
16	Palm Dr (NS) at Camino Aventura (EW)	Two-way stop	HCM 6th Edition	WB Left	0.133	27.0	D
17	Palm Dr (NS) at Dillon Rd (EW)	Signalized	HCM 6th Edition	WB Left	0.794	23.8	C

18	Palm Dr (NS) at Varner Rd (EW)	Signalized	HCM 6th Edition	NB Left	0.622	5.9	A

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-10 EB Ramps (NS) at Garnet Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	15.3
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.182

Intersection Setup

Name	I-10 EB Ramps		Garnet Ave		Garnet Ave	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		No		No	

Volumes

Name	I-10 EB Ramps		Garnet Ave		Garnet Ave	
Base Volume Input [veh/h]	200	11	10	65	54	93
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	200	11	10	65	54	93
Peak Hour Factor	0.8390	0.8390	0.8390	0.8390	0.8390	0.8390
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	60	3	3	19	16	28
Total Analysis Volume [veh/h]	238	13	12	77	64	111
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Permissive	Permissive	Protected	Permissive	Permissive	Overlap
Signal group	1	0	3	8	4	4
Auxiliary Signal Groups						4
Lead / Lag	Lead	-	Lead	-	-	-
Minimum Green [s]	7	0	7	7	7	7
Maximum Green [s]	30	0	30	30	30	30
Amber [s]	3.0	0.0	3.0	3.0	3.0	3.0
All red [s]	1.0	0.0	1.0	1.0	1.0	1.0
Split [s]	19	0	20	41	21	21
Vehicle Extension [s]	3.0	0.0	3.0	3.0	3.0	3.0
Walk [s]	7	0	0	7	7	7
Pedestrian Clearance [s]	10	0	0	10	10	10
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	2.0	2.0	2.0	2.0
I2, Clearance Lost Time [s]	2.0	0.0	2.0	2.0	2.0	2.0
Minimum Recall	No		No	No	No	No
Maximum Recall	No		No	No	No	No
Pedestrian Recall	No		No	No	No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	L	C	C	R
C, Cycle Length [s]	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	7	7	1	45	40	40
g / C, Green / Cycle	0.12	0.12	0.02	0.75	0.66	0.66
(v / s)_i Volume / Saturation Flow Rate	0.07	0.01	0.01	0.04	0.03	0.07
s, saturation flow rate [veh/h]	3459	1589	1781	1870	1870	1589
c, Capacity [veh/h]	402	185	41	1404	1236	1051
d1, Uniform Delay [s]	25.23	23.69	28.89	1.95	3.58	3.72
k, delay calibration	0.11	0.11	0.11	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	1.39	0.16	3.77	0.07	0.08	0.20
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.59	0.07	0.29	0.05	0.05	0.11
d, Delay for Lane Group [s/veh]	26.63	23.85	32.66	2.02	3.66	3.92
Lane Group LOS	C	C	C	A	A	A
Critical Lane Group	Yes	No	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	1.60	0.16	0.21	0.13	0.21	0.39
50th-Percentile Queue Length [ft/ln]	39.89	4.10	5.14	3.27	5.24	9.68
95th-Percentile Queue Length [veh/ln]	2.87	0.29	0.37	0.24	0.38	0.70
95th-Percentile Queue Length [ft/ln]	71.80	7.37	9.26	5.88	9.43	17.42

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	26.63	23.85	32.66	2.02	3.66	3.92
Movement LOS	C	C	C	A	A	A
d_A, Approach Delay [s/veh]	26.48		6.15		3.82	
Approach LOS	C		A		A	
d_I, Intersection Delay [s/veh]	15.27					
Intersection LOS	B					
Intersection V/C	0.182					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	20.01	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	2.200	0.000	0.000
Crosswalk LOS	B	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	30.00	30.00	30.00
l_b,int, Bicycle LOS Score for Intersection	4.132	4.279	4.421
Bicycle LOS	D	E	E

Sequence

Ring 1	1	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 2: Indian Canyon Dr (NS) at Pierson Blvd (EW)

Control Type:	All-way stop	Delay (sec / veh):	14.1
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.589

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Pierson Blvd			Pierson Blvd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			55.00			50.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Pierson Blvd			Pierson Blvd		
Base Volume Input [veh/h]	37	292	108	33	146	15	21	99	14	81	76	60
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	37	292	108	33	146	15	21	99	14	81	76	60
Peak Hour Factor	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	10	76	28	9	38	4	5	26	4	21	20	16
Total Analysis Volume [veh/h]	39	304	113	34	152	16	22	103	15	84	79	63
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	583	665	553	515	581	545
Degree of Utilization, x	0.59	0.17	0.37	0.24	0.03	0.41

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	3.81	0.61	1.66	0.94	0.08	2.02
95th-Percentile Queue Length [ft]	95.20	15.22	41.60	23.59	1.98	50.56
Approach Delay [s/veh]	15.32		13.21	11.61		14.20
Approach LOS	C		B	B		B
Intersection Delay [s/veh]	14.15					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 3: Indian Canyon Dr (NS) at Dillon Rd (EW)

Control Type:	All-way stop	Delay (sec / veh):	20.2
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.777

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	12	400	305	27	212	0	5	82	14	178	89	33
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	12	400	305	27	212	0	5	82	14	178	89	33
Peak Hour Factor	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	3	103	78	7	55	0	1	21	4	46	23	8
Total Analysis Volume [veh/h]	12	412	314	28	218	0	5	84	14	183	92	34
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	546	613	498	502	450	496	465	539
Degree of Utilization, x	0.78	0.51	0.49	0.00	0.20	0.03	0.59	0.06

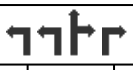
Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	7.12	2.92	2.70	0.00	0.73	0.09	3.75	0.20
95th-Percentile Queue Length [ft]	177.95	73.12	67.53	0.00	18.22	2.18	93.73	5.04
Approach Delay [s/veh]	22.62		16.80		12.33		19.80	
Approach LOS	C		C		B		C	
Intersection Delay [s/veh]	20.21							
Intersection LOS	C							

Intersection Level Of Service Report
Intersection 4: Indian Canyon Dr (NS) at 20th Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	16.2
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.396

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			20th Ave			20th Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	2	0	0
Pocket Length [ft]	157.00	100.00	100.00	82.00	100.00	100.00	75.00	100.00	100.00	190.00	100.00	100.00
Speed [mph]	55.00			55.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			20th Ave			20th Ave		
Base Volume Input [veh/h]	43	597	3	0	426	19	22	1	81	212	37	211
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	43	597	3	0	426	19	22	1	81	212	37	211
Peak Hour Factor	0.9370	0.9370	0.9370	0.9370	0.9370	0.9370	0.9370	0.9370	0.9370	0.9370	0.9370	0.9370
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	11	159	1	0	114	5	6	0	22	57	10	56
Total Analysis Volume [veh/h]	46	637	3	0	455	20	23	1	86	226	39	225
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	65
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	11	21	0	11	21	0	12	15	0	18	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	C	L	C	R	L	C	R
C, Cycle Length [s]	65	65	65	65	65	65	65	65	65	65	65	65
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	4	37	37	0	33	33	2	6	6	7	10	10
g / C, Green / Cycle	0.06	0.56	0.56	0.00	0.50	0.50	0.04	0.09	0.09	0.11	0.15	0.15
(v / s)_i Volume / Saturation Flow Rate	0.03	0.18	0.00	0.00	0.09	0.09	0.01	0.00	0.05	0.07	0.08	0.08
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1830	1781	1870	1589	3459	1662	1589
c, Capacity [veh/h]	112	1990	888	3	1772	911	69	163	138	371	258	247
d1, Uniform Delay [s]	29.41	7.73	6.36	0.00	9.03	9.04	30.54	27.22	28.76	27.84	25.35	25.35
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.37	0.43	0.01	0.00	0.22	0.43	2.76	0.01	4.50	1.62	1.64	1.72
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.41	0.32	0.00	0.00	0.18	0.18	0.33	0.01	0.62	0.61	0.52	0.52
d, Delay for Lane Group [s/veh]	31.78	8.16	6.37	0.00	9.25	9.47	33.30	27.24	33.27	29.46	26.99	27.07
Lane Group LOS	C	A	A	A	A	A	C	C	C	C	C	C
Critical Lane Group	No	Yes	No	No	No	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	0.69	1.64	0.01	0.00	0.92	1.00	0.39	0.01	1.41	1.69	1.94	1.86
50th-Percentile Queue Length [ft/ln]	17.14	41.03	0.34	0.00	22.91	25.12	9.79	0.36	35.35	42.24	48.49	46.51
95th-Percentile Queue Length [veh/ln]	1.23	2.95	0.02	0.00	1.65	1.81	0.70	0.03	2.55	3.04	3.49	3.35
95th-Percentile Queue Length [ft/ln]	30.85	73.85	0.61	0.00	41.24	45.22	17.62	0.64	63.63	76.03	87.28	83.72

Movement, Approach, & Intersection Results

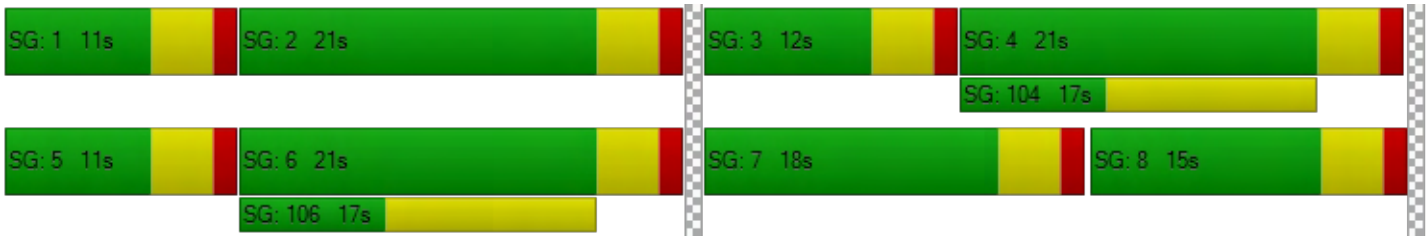
d_M, Delay for Movement [s/veh]	31.78	8.16	6.37	0.00	9.32	9.47	33.30	27.24	33.27	29.46	26.99	27.04
Movement LOS	C	A	A	A	A	A	C	C	C	C	C	C
d_A, Approach Delay [s/veh]	9.73			9.32			33.22			28.15		
Approach LOS	A			A			C			C		
d_I, Intersection Delay [s/veh]	16.22											
Intersection LOS	B											
Intersection V/C	0.396											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	22.43	22.43	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	2.840	2.166	0.000
Crosswalk LOS	F	C	B	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	523	523	338	523
d_b, Bicycle Delay [s]	17.72	17.72	22.43	17.72
l_b,int, Bicycle LOS Score for Intersection	2.126	1.821	1.741	2.368
Bicycle LOS	B	A	A	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 5: Indian Canyon Dr (NS) at Garnet Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	14.7
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.406

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Garnet Ave			Garnet Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	2	0	0	1	0	0
Pocket Length [ft]	132.00	100.00	100.00	223.00	100.00	100.00	166.00	100.00	100.00	75.00	100.00	100.00
Speed [mph]	55.00			55.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			Yes		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Garnet Ave			Garnet Ave		
Base Volume Input [veh/h]	45	829	15	142	368	108	154	16	94	9	6	11
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	45	829	15	142	368	108	154	16	94	9	6	11
Peak Hour Factor	0.9770	0.9770	0.9770	0.9770	0.9770	0.9770	0.9770	0.9770	0.9770	0.9770	0.9770	0.9770
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	12	212	4	36	94	28	39	4	24	2	2	3
Total Analysis Volume [veh/h]	46	849	15	145	377	111	158	16	96	9	6	11
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	65
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	8	7	4	0
Auxiliary Signal Groups									8			
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	7	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	30	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0
Split [s]	11	21	0	12	22	0	11	20	20	12	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	7	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	10	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No	No	No	No	
Maximum Recall	No	No		No	No		No	No	No	No	No	
Pedestrian Recall	No	No		No	No		No	No	No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	R	L	C	R	L	C
C, Cycle Length [s]	65	65	65	65	65	65	65	65	65	65	65
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	4	34	34	7	37	37	7	7	7	1	2
g / C, Green / Cycle	0.06	0.52	0.52	0.10	0.56	0.56	0.10	0.11	0.11	0.02	0.03
(v / s)_i Volume / Saturation Flow Rate	0.03	0.16	0.16	0.08	0.11	0.07	0.05	0.01	0.06	0.01	0.01
s, saturation flow rate [veh/h]	1781	3560	1853	1781	3560	1589	3459	1870	1589	1781	1678
c, Capacity [veh/h]	112	1838	957	187	1988	887	356	216	183	33	51
d1, Uniform Delay [s]	29.41	9.09	9.09	28.45	7.12	6.85	27.53	25.77	27.19	31.62	30.98
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.37	0.44	0.84	6.68	0.21	0.29	0.87	0.14	2.31	4.52	3.69
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.41	0.31	0.31	0.77	0.19	0.13	0.44	0.07	0.52	0.28	0.33
d, Delay for Lane Group [s/veh]	31.78	9.53	9.93	35.13	7.34	7.14	28.39	25.91	29.50	36.14	34.68
Lane Group LOS	C	A	A	D	A	A	C	C	C	D	C
Critical Lane Group	No	No	Yes	Yes	No	No	No	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	0.69	1.70	1.88	2.27	0.89	0.54	1.15	0.22	1.46	0.18	0.30
50th-Percentile Queue Length [ft/ln]	17.14	42.41	46.90	56.80	22.18	13.51	28.72	5.52	36.50	4.39	7.62
95th-Percentile Queue Length [veh/ln]	1.23	3.05	3.38	4.09	1.60	0.97	2.07	0.40	2.63	0.32	0.55
95th-Percentile Queue Length [ft/ln]	30.85	76.34	84.41	102.23	39.93	24.33	51.70	9.93	65.69	7.90	13.71

Movement, Approach, & Intersection Results

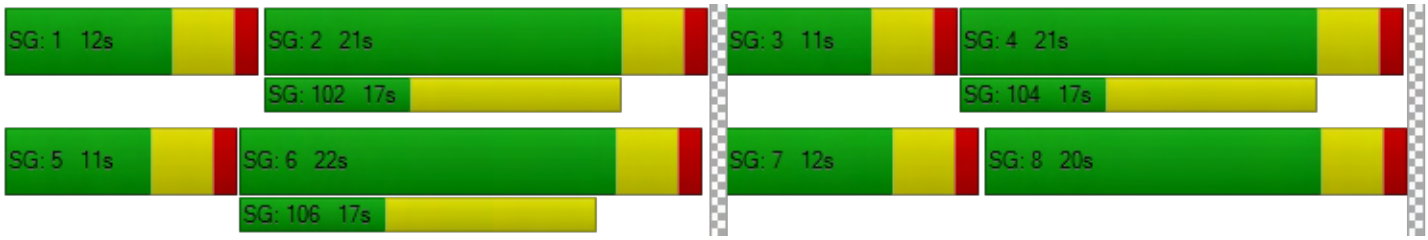
d_M, Delay for Movement [s/veh]	31.78	9.66	9.93	35.13	7.34	7.14	28.39	25.91	29.50	36.14	34.68	34.68
Movement LOS	C	A	A	D	A	A	C	C	C	D	C	C
d_A, Approach Delay [s/veh]	10.78			13.67			28.64			35.18		
Approach LOS	B			B			C			D		
d_I, Intersection Delay [s/veh]	14.74											
Intersection LOS	B											
Intersection V/C	0.406											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	22.43	22.43	22.43
l_p,int, Pedestrian LOS Score for Intersection	0.000	2.998	2.505	1.988
Crosswalk LOS	F	C	B	A
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	523	554	492	523
d_b, Bicycle Delay [s]	17.72	16.99	18.47	17.72
l_b,int, Bicycle LOS Score for Intersection	2.060	2.082	2.005	1.603
Bicycle LOS	B	B	B	A

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 6: I-10 WB Ramps (NS) at 20th Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	23.7
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.194

Intersection Setup

Name	I-10 WB Ramps		20th Ave		20th Ave	
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	1	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	90.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	No		No		No	

Volumes

Name	I-10 WB Ramps		20th Ave		20th Ave	
Base Volume Input [veh/h]	482	4	2	1	5	9
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	482	4	2	1	5	9
Peak Hour Factor	0.9250	0.9250	0.9250	0.9250	0.9250	0.9250
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	130	1	1	0	1	2
Total Analysis Volume [veh/h]	521	4	2	1	5	10
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-
Minimum Green [s]	7	0	7	0	7	7
Maximum Green [s]	30	0	30	0	30	30
Amber [s]	3.0	0.0	3.0	0.0	3.0	3.0
All red [s]	1.0	0.0	1.0	0.0	1.0	1.0
Split [s]	37	0	11	0	12	23
Vehicle Extension [s]	3.0	0.0	3.0	0.0	3.0	3.0
Walk [s]	7	0	7	0	0	7
Pedestrian Clearance [s]	10	0	10	0	0	10
Rest In Walk	No		No			No
I1, Start-Up Lost Time [s]	2.0	0.0	2.0	0.0	2.0	2.0
I2, Clearance Lost Time [s]	2.0	0.0	2.0	0.0	2.0	2.0
Minimum Recall	No		No		No	No
Maximum Recall	No		No		No	No
Pedestrian Recall	No		No		No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	C	L	C
C, Cycle Length [s]	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	12	12	35	1	40
g / C, Green / Cycle	0.20	0.20	0.59	0.01	0.67
(v / s)_i Volume / Saturation Flow Rate	0.15	0.00	0.00	0.00	0.00
s, saturation flow rate [veh/h]	3459	1589	1766	1781	3560
c, Capacity [veh/h]	700	322	1036	20	2366
d1, Uniform Delay [s]	22.53	19.18	5.15	29.48	3.39
k, delay calibration	0.11	0.11	0.50	0.11	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	1.59	0.02	0.01	6.17	0.00
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.74	0.01	0.00	0.25	0.00
d, Delay for Lane Group [s/veh]	24.12	19.20	5.15	35.65	3.40
Lane Group LOS	C	B	A	D	A
Critical Lane Group	Yes	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	3.36	0.04	0.01	0.10	0.01
50th-Percentile Queue Length [ft/ln]	83.92	1.08	0.34	2.58	0.37
95th-Percentile Queue Length [veh/ln]	6.04	0.08	0.02	0.19	0.03
95th-Percentile Queue Length [ft/ln]	151.06	1.95	0.60	4.64	0.66

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	24.12	19.20	5.15	5.15	35.65	3.40
Movement LOS	C	B	A	A	D	A
d_A, Approach Delay [s/veh]	24.08		5.15		14.15	
Approach LOS	C		A		B	
d_I, Intersection Delay [s/veh]	23.70					
Intersection LOS	C					
Intersection V/C	0.194					

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000
Crosswalk LOS	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	30.00	30.00	30.00
l_b,int, Bicycle LOS Score for Intersection	4.132	4.137	4.145
Bicycle LOS	D	D	D

Sequence

Ring 1	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 7: Little Morongo Rd (NS) at Pierson Blvd (EW)

Control Type:	All-way stop	Delay (sec / veh):	10.0
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.328

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			Pierson Blvd			Pierson Blvd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			45.00			50.00			50.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			Pierson Blvd			Pierson Blvd		
Base Volume Input [veh/h]	28	88	39	49	53	5	12	185	22	10	148	61
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	29	92	41	51	55	5	12	192	23	10	154	63
Peak Hour Factor	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	7	24	11	13	14	1	3	49	6	3	40	16
Total Analysis Volume [veh/h]	30	95	42	52	57	5	12	198	24	10	158	65
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	695	662	641	737	640	737
Degree of Utilization, x	0.24	0.17	0.33	0.03	0.26	0.09

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.93	0.62	1.42	0.10	1.05	0.29
95th-Percentile Queue Length [ft]	23.37	15.47	35.62	2.52	26.24	7.24
Approach Delay [s/veh]	9.80	9.57	10.69		9.69	
Approach LOS	A	A	B		A	
Intersection Delay [s/veh]	10.01					
Intersection LOS	B					

Intersection Level Of Service Report

Intersection 8: Little Morongo Rd (NS) at 14th Ave/2 Bunch Palms (EW)

Control Type:	All-way stop	Delay (sec / veh):	11.1
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.519

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			14th Ave			Two Bunch Palms Trail		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			30.00			45.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			14th Ave			Two Bunch Palms Trail		
Base Volume Input [veh/h]	14	167	203	45	108	3	0	11	4	114	9	69
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	14	170	207	46	110	3	0	11	4	116	9	70
Peak Hour Factor	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	4	45	55	12	29	1	0	3	1	31	2	19
Total Analysis Volume [veh/h]	15	180	220	49	117	3	0	12	4	123	10	74
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	800	701	633	561	686
Degree of Utilization, x	0.52	0.24	0.03	0.24	0.11

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	3.04	0.94	0.08	0.92	0.36
95th-Percentile Queue Length [ft]	76.11	23.51	1.94	22.94	9.02
Approach Delay [s/veh]	12.26	9.76	8.84	10.20	
Approach LOS	B	A	A	B	
Intersection Delay [s/veh]	11.14				
Intersection LOS	B				

Intersection Level Of Service Report
Intersection 9: Little Morongo Rd (NS) at 15th Ave (EW)

Control Type:	Two-way stop	Delay (sec / veh):	13.2
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.000

Intersection Setup

Name	Little Morongo Rd		Little Morongo Rd		15th Ave	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		No	

Volumes

Name	Little Morongo Rd		Little Morongo Rd		15th Ave	
Base Volume Input [veh/h]	384	0	0	226	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	384	0	0	226	0	0
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	101	0	0	59	0	0
Total Analysis Volume [veh/h]	404	0	0	238	0	0
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.00	0.00	0.00	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	8.12	0.00	13.21	10.57
Movement LOS	A	A	A	A	B	B
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	0.00		0.00		11.89	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.00					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 10: Little Morongo Rd (NS) at Dillon Rd (EW)

Control Type:	All-way stop	Delay (sec / veh):	11.3
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.409

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	1	0	0	1	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	205.00	100.00	100.00	146.00	100.00	100.00
Speed [mph]	30.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	0	1	2	71	1	84	199	183	0	0	132	102
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	1	2	74	1	87	207	190	0	0	137	106
Peak Hour Factor	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	1	21	0	25	59	54	0	0	39	30
Total Analysis Volume [veh/h]	0	1	2	84	1	99	236	217	0	0	156	121
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	635	662	612	669	641	678
Degree of Utilization, x	0.00	0.28	0.39	0.32	0.00	0.41

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.01	1.13	1.82	1.41	0.00	1.99
95th-Percentile Queue Length [ft]	0.36	28.30	45.38	35.15	0.00	49.84
Approach Delay [s/veh]	8.70	10.51	11.48		11.63	
Approach LOS	A	B	B		B	
Intersection Delay [s/veh]	11.32					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 11: Atlantic Ave (NS) at Dillon Rd (EW)

Control Type:	Two-way stop	Delay (sec / veh):	12.8
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.006

Intersection Setup

Name	Atlantic Ave		Dillon Rd		Dillon Rd	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		55.00		55.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		No	

Volumes

Name	Atlantic Ave		Dillon Rd		Dillon Rd	
Base Volume Input [veh/h]	3	2	3	276	250	1
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	3	2	3	287	260	1
Peak Hour Factor	0.9290	0.9290	0.9290	0.9290	0.9290	0.9290
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	1	1	77	70	0
Total Analysis Volume [veh/h]	3	2	3	309	280	1
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane	No		
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.00	0.00	0.00	0.00
d_M, Delay for Movement [s/veh]	12.80	9.81	7.82	0.00	0.00	0.00
Movement LOS	B	A	A	A	A	A
95th-Percentile Queue Length [veh/ln]	0.03	0.03	0.01	0.01	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.69	0.69	0.18	0.18	0.00	0.00
d_A, Approach Delay [s/veh]	11.60		0.08		0.00	
Approach LOS	B		A		A	
d_I, Intersection Delay [s/veh]	0.14					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 12: Palm Dr (NS) at Hacienda Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	21.3
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.651

Intersection Setup

Name	Palm Dr			Palm Dr			Hacienda Ave			Hacienda Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0
Pocket Length [ft]	110.00	100.00	100.00	90.00	100.00	100.00	70.00	100.00	100.00	80.00	100.00	100.00
Speed [mph]	35.00			35.00			45.00			40.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Hacienda Ave			Hacienda Ave		
Base Volume Input [veh/h]	84	880	69	112	541	26	40	101	76	170	126	97
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	86	898	70	114	552	27	41	103	78	173	129	99
Peak Hour Factor	0.9710	0.9710	0.9710	0.9710	0.9710	0.9710	0.9710	0.9710	0.9710	0.9710	0.9710	0.9710
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	22	231	18	29	142	7	11	27	20	45	33	25
Total Analysis Volume [veh/h]	89	925	72	117	568	28	42	106	80	178	133	102
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	65
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	11	21	0	11	21	0	11	21	0	12	22	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	C	L	C	C	L	C	R
C, Cycle Length [s]	65	65	65	65	65	65	65	65	65	65	65	65
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	6	28	28	6	29	29	4	7	7	8	11	11
g / C, Green / Cycle	0.09	0.43	0.43	0.10	0.44	0.44	0.06	0.10	0.10	0.12	0.17	0.17
(v / s)_i Volume / Saturation Flow Rate	0.05	0.27	0.27	0.07	0.16	0.16	0.02	0.05	0.06	0.10	0.07	0.06
s, saturation flow rate [veh/h]	1781	1870	1823	1781	1870	1839	1781	1870	1617	1781	1870	1589
c, Capacity [veh/h]	157	804	784	172	819	806	106	196	169	221	316	268
d1, Uniform Delay [s]	28.57	14.53	14.53	28.52	12.27	12.27	29.56	27.58	27.71	27.84	24.27	24.09
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	3.19	3.70	3.79	4.69	1.26	1.29	2.37	1.89	2.58	6.83	0.89	0.88
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.57	0.63	0.63	0.68	0.37	0.37	0.40	0.49	0.53	0.81	0.42	0.38
d, Delay for Lane Group [s/veh]	31.76	18.23	18.33	33.21	13.54	13.56	31.93	29.47	30.29	34.66	25.16	24.98
Lane Group LOS	C	B	B	C	B	B	C	C	C	C	C	C
Critical Lane Group	No	No	Yes	Yes	No	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	1.40	5.79	5.67	1.88	2.80	2.77	0.65	1.38	1.33	2.89	1.75	1.34
50th-Percentile Queue Length [ft/ln]	34.88	144.84	141.78	47.08	70.10	69.17	16.24	34.53	33.18	72.37	43.82	33.51
95th-Percentile Queue Length [veh/ln]	2.51	9.74	9.58	3.39	5.05	4.98	1.17	2.49	2.39	5.21	3.15	2.41
95th-Percentile Queue Length [ft/ln]	62.78	243.53	239.42	84.75	126.18	124.50	29.22	62.15	59.73	130.27	78.87	60.32

Movement, Approach, & Intersection Results

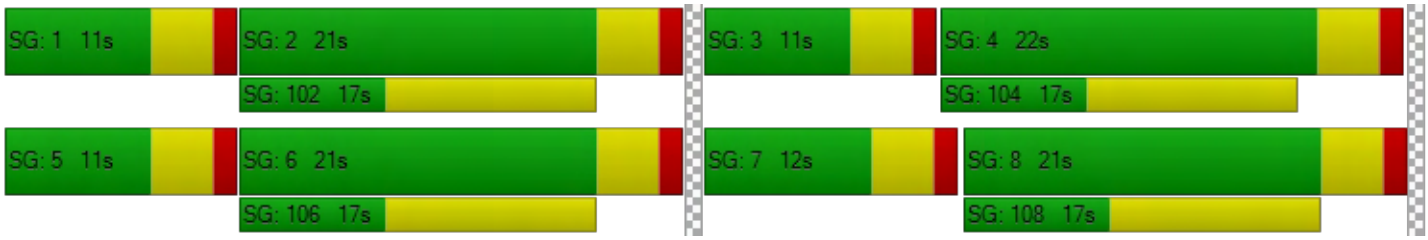
d_M, Delay for Movement [s/veh]	31.76	18.27	18.33	33.21	13.55	13.56	31.93	29.55	30.29	34.66	25.16	24.98
Movement LOS	C	B	B	C	B	B	C	C	C	C	C	C
d_A, Approach Delay [s/veh]	19.38			16.77			30.25			29.21		
Approach LOS	B			B			C			C		
d_I, Intersection Delay [s/veh]	21.30											
Intersection LOS	C											
Intersection V/C	0.651											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	22.43	22.43	22.43	22.43
l_p,int, Pedestrian LOS Score for Intersection	2.717	2.687	2.288	2.466
Crosswalk LOS	B	B	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	523	523	523	554
d_b, Bicycle Delay [s]	17.72	17.72	17.72	16.99
l_b,int, Bicycle LOS Score for Intersection	2.456	2.148	1.748	2.241
Bicycle LOS	B	B	A	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 13: Palm Dr (NS) at Ironwood Dr (EW)

Control Type:	Signalized	Delay (sec / veh):	13.8
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.510

Intersection Setup

Name	Palm Dr			Palm Dr			Ironwood Dr			Ironwood Dr		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0
Pocket Length [ft]	117.00	100.00	100.00	100.00	100.00	100.00	58.00	100.00	100.00	60.00	100.00	100.00
Speed [mph]	35.00			35.00			35.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Ironwood Dr			Ironwood Dr		
Base Volume Input [veh/h]	48	1014	76	27	705	37	54	36	20	49	29	46
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	48	1014	76	27	705	37	54	36	20	49	29	46
Peak Hour Factor	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	13	264	20	7	184	10	14	9	5	13	8	12
Total Analysis Volume [veh/h]	50	1057	79	28	735	39	56	38	21	51	30	48
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	75
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	11	21	0	11	21	0	11	31	0	12	32	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	C	L	C	L	C
C, Cycle Length [s]	75	75	75	75	75	75	75	75	75	75
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	5	45	45	3	44	44	5	6	5	6
g / C, Green / Cycle	0.06	0.60	0.60	0.04	0.58	0.58	0.07	0.08	0.06	0.08
(v / s)_i Volume / Saturation Flow Rate	0.03	0.31	0.31	0.02	0.21	0.21	0.03	0.03	0.03	0.05
s, saturation flow rate [veh/h]	1781	1870	1825	1781	1870	1837	1781	1759	1781	1687
c, Capacity [veh/h]	111	1125	1098	77	1089	1070	118	140	112	129
d1, Uniform Delay [s]	34.04	8.62	8.63	34.99	8.29	8.29	33.88	32.97	34.01	33.63
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.85	1.66	1.70	2.87	0.92	0.94	2.96	2.00	2.87	4.48
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.45	0.51	0.51	0.36	0.36	0.36	0.48	0.42	0.46	0.60
d, Delay for Lane Group [s/veh]	36.89	10.28	10.33	37.86	9.21	9.23	36.84	34.96	36.87	38.12
Lane Group LOS	D	B	B	D	A	A	D	C	D	D
Critical Lane Group	No	No	Yes	Yes	No	No	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	0.94	4.80	4.70	0.54	3.02	2.97	1.04	1.06	0.95	1.48
50th-Percentile Queue Length [ft/ln]	23.38	119.94	117.55	13.53	75.50	74.34	26.12	26.53	23.84	37.09
95th-Percentile Queue Length [veh/ln]	1.68	8.39	8.26	0.97	5.44	5.35	1.88	1.91	1.72	2.67
95th-Percentile Queue Length [ft/ln]	42.09	209.74	206.45	24.36	135.89	133.81	47.01	47.75	42.90	66.76

Movement, Approach, & Intersection Results

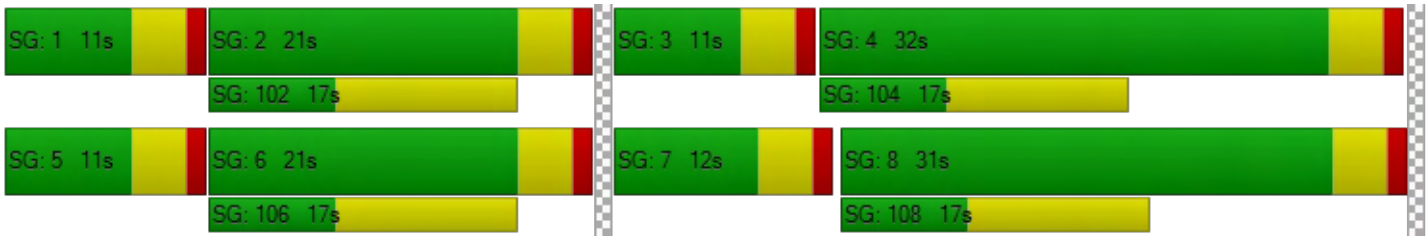
d_M, Delay for Movement [s/veh]	36.89	10.30	10.33	37.86	9.22	9.23	36.84	34.96	34.96	36.87	38.12	38.12
Movement LOS	D	B	B	D	A	A	D	C	C	D	D	D
d_A, Approach Delay [s/veh]	11.43			10.22			35.88			37.62		
Approach LOS	B			B			D			D		
d_I, Intersection Delay [s/veh]	13.77											
Intersection LOS	B											
Intersection V/C	0.510											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	27.31	27.31	27.31	27.31
l_p,int, Pedestrian LOS Score for Intersection	2.821	2.736	2.019	2.034
Crosswalk LOS	C	B	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	453	453	720	747
d_b, Bicycle Delay [s]	22.43	22.43	15.36	14.73
l_b,int, Bicycle LOS Score for Intersection	2.538	2.221	1.749	1.772
Bicycle LOS	B	B	A	A

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 14: Palm Dr (NS) at Two Bunch Palms Trail (EW)

Control Type:	Signalized	Delay (sec / veh):	29.6
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.854

Intersection Setup

Name	Palm Dr			Palm Dr			Two Bunch Palms Trail			Two Bunch Palms Trail		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	1
Pocket Length [ft]	96.00	100.00	100.00	101.00	100.00	100.00	95.00	100.00	100.00	70.00	100.00	130.00
Speed [mph]	40.00			35.00			40.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Two Bunch Palms Trail			Two Bunch Palms Trail		
Base Volume Input [veh/h]	180	1009	150	103	656	21	98	161	228	248	129	93
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	184	1029	153	105	669	21	100	164	233	253	132	95
Peak Hour Factor	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	48	266	40	27	173	5	26	42	60	65	34	25
Total Analysis Volume [veh/h]	190	1064	158	109	692	22	103	170	241	262	137	98
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	70
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	13	23	0	11	21	0	15	21	0	15	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	70	70	70	70	70	70	70	70	70	70	70	70
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	9	24	24	6	21	21	6	13	13	11	18	18
g / C, Green / Cycle	0.13	0.34	0.34	0.09	0.30	0.30	0.09	0.18	0.18	0.16	0.25	0.25
(v / s)_i Volume / Saturation Flow Rate	0.11	0.30	0.10	0.06	0.19	0.01	0.06	0.09	0.15	0.15	0.07	0.06
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	230	1218	544	160	1077	481	157	342	291	281	472	401
d1, Uniform Delay [s]	29.81	21.68	16.88	31.01	21.21	17.33	31.00	25.80	27.65	29.23	21.19	20.93
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	7.30	8.83	1.35	5.07	2.95	0.18	4.59	1.12	6.02	13.41	0.34	0.31
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.83	0.87	0.29	0.68	0.64	0.05	0.66	0.50	0.83	0.93	0.29	0.24
d, Delay for Lane Group [s/veh]	37.12	30.51	18.23	36.09	24.17	17.51	35.59	26.92	33.66	42.63	21.53	21.24
Lane Group LOS	D	C	B	D	C	B	D	C	C	D	C	C
Critical Lane Group	No	Yes	No	Yes	No	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	3.37	8.67	1.86	1.92	4.94	0.26	1.78	2.46	4.06	5.13	1.74	1.23
50th-Percentile Queue Length [ft/ln]	84.16	216.77	46.58	48.11	123.41	6.44	44.47	61.50	101.53	128.30	43.42	30.77
95th-Percentile Queue Length [veh/ln]	6.06	13.50	3.35	3.46	8.58	0.46	3.20	4.43	7.31	8.85	3.13	2.22
95th-Percentile Queue Length [ft/ln]	151.48	337.50	83.85	86.60	214.51	11.59	80.04	110.70	182.76	221.18	78.16	55.38

Movement, Approach, & Intersection Results

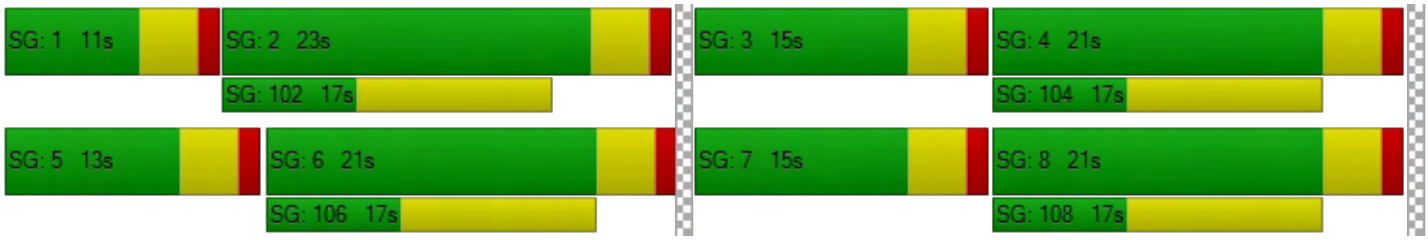
d_M, Delay for Movement [s/veh]	37.12	30.51	18.23	36.09	24.17	17.51	35.59	26.92	33.66	42.63	21.53	21.24
Movement LOS	D	C	B	D	C	B	D	C	C	D	C	C
d_A, Approach Delay [s/veh]	30.03			25.57			31.82			32.60		
Approach LOS	C			C			C			C		
d_I, Intersection Delay [s/veh]	29.57											
Intersection LOS	C											
Intersection V/C	0.854											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	24.86	24.86	24.86	24.86
l_p,int, Pedestrian LOS Score for Intersection	3.004	2.835	2.510	2.383
Crosswalk LOS	C	C	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	543	486	486	486
d_b, Bicycle Delay [s]	18.58	20.06	20.06	20.06
l_b,int, Bicycle LOS Score for Intersection	2.725	2.239	2.408	2.380
Bicycle LOS	B	B	B	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 15: Palm Dr (NS) at Camino Campanero (EW)

Control Type:	Signalized	Delay (sec / veh):	11.2
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.709

Intersection Setup

Name	Palm Dr		Palm Dr		Camino Campanero	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	1	0	0	1
Pocket Length [ft]	100.00	100.00	80.00	100.00	100.00	87.00
Speed [mph]	45.00		40.00		25.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		No		Yes	

Volumes

Name	Palm Dr		Palm Dr		Camino Campanero	
Base Volume Input [veh/h]	1268	34	138	884	17	167
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1268	34	138	884	17	167
Peak Hour Factor	0.9490	0.9490	0.9490	0.9490	0.9490	0.9490
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	334	9	36	233	4	44
Total Analysis Volume [veh/h]	1336	36	145	932	18	176
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Permissive	Permissive	Protected	Permissive	Split	Split
Signal group	2	0	1	6	7	0
Auxiliary Signal Groups						
Lead / Lag	-	-	Lead	-	Lead	-
Minimum Green [s]	7	0	7	7	7	0
Maximum Green [s]	30	0	30	30	30	0
Amber [s]	3.0	0.0	3.0	3.0	3.0	0.0
All red [s]	1.0	0.0	1.0	1.0	1.0	0.0
Split [s]	21	0	18	39	21	0
Vehicle Extension [s]	3.0	0.0	3.0	3.0	3.0	0.0
Walk [s]	7	0	0	7	7	0
Pedestrian Clearance [s]	10	0	0	10	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	0.0	2.0	2.0	2.0	0.0
Minimum Recall	No		No	No	No	
Maximum Recall	No		No	No	No	
Pedestrian Recall	No		No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	R	L	C	L	R
C, Cycle Length [s]	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	33	33	6	44	8	8
g / C, Green / Cycle	0.55	0.55	0.11	0.73	0.14	0.14
(v / s)_i Volume / Saturation Flow Rate	0.38	0.02	0.08	0.26	0.01	0.11
s, saturation flow rate [veh/h]	3560	1589	1781	3560	1781	1589
c, Capacity [veh/h]	1960	875	193	2582	253	225
d1, Uniform Delay [s]	9.72	6.22	26.05	3.08	22.38	24.91
k, delay calibration	0.50	0.50	0.11	0.50	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	1.94	0.09	5.85	0.39	0.12	5.81
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.68	0.04	0.75	0.36	0.07	0.78
d, Delay for Lane Group [s/veh]	11.66	6.30	31.90	3.47	22.50	30.72
Lane Group LOS	B	A	C	A	C	C
Critical Lane Group	Yes	No	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	4.71	0.17	2.14	0.92	0.22	2.68
50th-Percentile Queue Length [ft/ln]	117.67	4.14	53.45	23.02	5.52	66.88
95th-Percentile Queue Length [veh/ln]	8.26	0.30	3.85	1.66	0.40	4.82
95th-Percentile Queue Length [ft/ln]	206.62	7.44	96.21	41.43	9.93	120.39

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	11.66	6.30	31.90	3.47	22.50	30.72
Movement LOS	B	A	C	A	C	C
d_A, Approach Delay [s/veh]	11.52		7.30		29.96	
Approach LOS	B		A		C	
d_I, Intersection Delay [s/veh]	11.15					
Intersection LOS	B					
Intersection V/C	0.709					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	0.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	20.01	0.00	20.01
l_p,int, Pedestrian LOS Score for Intersection	2.956	0.000	2.019
Crosswalk LOS	C	F	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	30.00	30.00	30.00
l_b,int, Bicycle LOS Score for Intersection	5.264	5.021	4.132
Bicycle LOS	F	F	D

Sequence

Ring 1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 16: Palm Dr (NS) at Camino Aventura (EW)

Control Type:	Two-way stop	Delay (sec / veh):	27.0
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.133

Intersection Setup

Name	Palm Dr		Palm Dr		Camino Aventura	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	1	0	0	0
Pocket Length [ft]	100.00	100.00	200.00	100.00	100.00	100.00
Speed [mph]	45.00		45.00		40.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		Yes	

Volumes

Name	Palm Dr		Palm Dr		Camino Aventura	
Base Volume Input [veh/h]	1279	90	61	827	24	61
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1279	90	61	827	24	61
Peak Hour Factor	0.9680	0.9680	0.9680	0.9680	0.9680	0.9680
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	330	23	16	214	6	16
Total Analysis Volume [veh/h]	1321	93	63	854	25	63
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			Yes
Number of Storage Spaces in Median	0	0	2

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.13	0.01	0.13	0.16
d_M, Delay for Movement [s/veh]	0.00	0.00	13.67	0.00	27.02	15.51
Movement LOS	A	A	B	A	D	C
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.45	0.00	0.45	0.55
95th-Percentile Queue Length [ft/ln]	0.00	0.00	11.29	0.00	11.23	13.63
d_A, Approach Delay [s/veh]	0.00		0.94		18.78	
Approach LOS	A		A		C	
d_I, Intersection Delay [s/veh]	1.04					
Intersection LOS	D					

Intersection Level Of Service Report
Intersection 17: Palm Dr (NS) at Dillon Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	23.8
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.794

Intersection Setup

Name	Palm Dr			Palm Dr			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	1	1	0	1
Pocket Length [ft]	150.00	100.00	100.00	150.00	100.00	100.00	155.00	100.00	155.00	140.00	100.00	140.00
Speed [mph]	60.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	180	1196	248	82	671	73	113	169	111	156	107	103
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	180	1196	248	82	671	73	113	169	111	156	107	103
Peak Hour Factor	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	48	320	66	22	179	20	30	45	30	42	29	28
Total Analysis Volume [veh/h]	193	1279	265	88	718	78	121	181	119	167	114	110
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	65
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	12	22	0	11	21	0	11	21	0	11	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	65	65	65	65	65	65	65	65	65	65	65	65
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	8	28	28	6	25	25	6	9	9	7	9	9
g / C, Green / Cycle	0.12	0.43	0.43	0.09	0.39	0.39	0.10	0.13	0.13	0.11	0.14	0.14
(v / s)_i Volume / Saturation Flow Rate	0.11	0.36	0.17	0.05	0.20	0.05	0.07	0.10	0.07	0.09	0.06	0.07
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	221	1518	678	156	1390	620	173	247	210	193	268	228
d1, Uniform Delay [s]	28.10	16.76	12.89	28.57	15.20	12.76	28.53	27.22	26.57	28.62	25.51	25.73
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	10.40	5.85	1.69	3.16	1.38	0.42	5.00	4.17	2.39	10.81	1.07	1.58
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.87	0.84	0.39	0.56	0.52	0.13	0.70	0.73	0.57	0.86	0.43	0.48
d, Delay for Lane Group [s/veh]	38.50	22.61	14.58	31.73	16.57	13.18	33.54	31.39	28.97	39.42	26.57	27.31
Lane Group LOS	D	C	B	C	B	B	C	C	C	D	C	C
Critical Lane Group	No	Yes	No	Yes	No	No	No	Yes	No	Yes	No	No
50th-Percentile Queue Length [veh/ln]	3.15	7.32	2.26	1.29	3.41	0.65	1.84	2.63	1.64	2.81	1.47	1.46
50th-Percentile Queue Length [ft/ln]	78.77	183.06	56.48	32.36	85.25	16.13	46.03	65.75	41.10	70.33	36.85	36.43
95th-Percentile Queue Length [veh/ln]	5.67	11.76	4.07	2.33	6.14	1.16	3.31	4.73	2.96	5.06	2.65	2.62
95th-Percentile Queue Length [ft/ln]	141.78	294.01	101.66	58.25	153.45	29.04	82.85	118.35	73.98	126.60	66.32	65.58

Movement, Approach, & Intersection Results

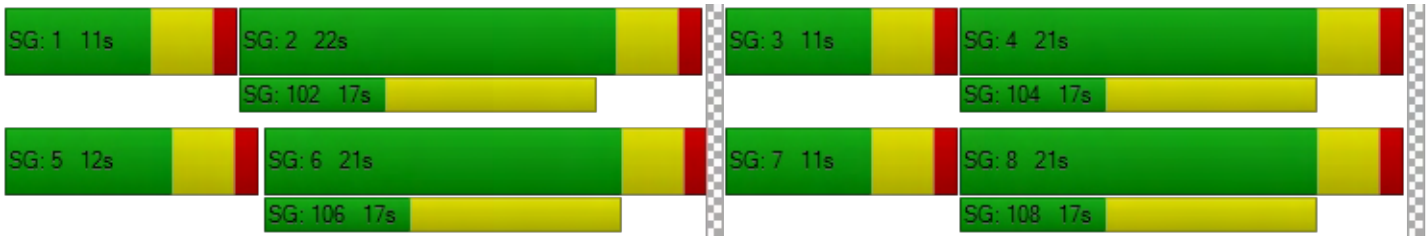
d_M, Delay for Movement [s/veh]	38.50	22.61	14.58	31.73	16.57	13.18	33.54	31.39	28.97	39.42	26.57	27.31
Movement LOS	D	C	B	C	B	B	C	C	C	D	C	C
d_A, Approach Delay [s/veh]	23.15			17.78			31.32			32.27		
Approach LOS	C			B			C			C		
d_I, Intersection Delay [s/veh]	23.81											
Intersection LOS	C											
Intersection V/C	0.794											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	22.43	22.43	22.43	22.43
l_p,int, Pedestrian LOS Score for Intersection	3.340	3.187	2.473	2.526
Crosswalk LOS	C	C	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	554	523	523	523
d_b, Bicycle Delay [s]	16.99	17.72	17.72	17.72
l_b,int, Bicycle LOS Score for Intersection	2.993	2.289	2.254	2.205
Bicycle LOS	C	B	B	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 18: Palm Dr (NS) at Varner Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	5.9
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.622

Intersection Setup

Name	Palm Dr			Palm Dr			Varner Rd			Varner Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	0	0	0	0	0	0
Pocket Length [ft]	173.00	100.00	100.00	195.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	60.00			60.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Varner Rd			Varner Rd		
Base Volume Input [veh/h]	1	1618	36	20	894	0	0	1	1	35	1	29
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1	1650	37	20	912	0	0	1	1	36	1	30
Peak Hour Factor	0.9320	0.9320	0.9320	0.9320	0.9320	0.9320	0.9320	0.9320	0.9320	0.9320	0.9320	0.9320
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	443	10	5	245	0	0	0	0	10	0	8
Total Analysis Volume [veh/h]	1	1770	40	21	979	0	0	1	1	39	1	32
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	110
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	5	2	0	1	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	-	-	-	-	-	-
Minimum Green [s]	7	7	0	7	7	0	0	7	0	0	7	0
Maximum Green [s]	30	30	0	30	30	0	0	30	0	0	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	12	78	0	11	77	0	0	21	0	0	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall	No	No		No	No			No			No	
Maximum Recall	No	No		No	No			No			No	
Pedestrian Recall	No	No		No	No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	C	C
C, Cycle Length [s]	110	110	110	110	110	110	110	110
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	0	88	88	3	92	92	6	6
g / C, Green / Cycle	0.00	0.80	0.80	0.03	0.83	0.83	0.06	0.06
(v / s)_i Volume / Saturation Flow Rate	0.00	0.50	0.03	0.01	0.27	0.00	0.00	0.05
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1199	1588
c, Capacity [veh/h]	4	2860	1277	54	2960	1321	101	141
d1, Uniform Delay [s]	54.75	4.24	2.18	52.30	2.16	0.00	48.95	51.06
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	24.91	1.02	0.05	4.41	0.30	0.00	0.08	2.83
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.23	0.62	0.03	0.39	0.33	0.00	0.02	0.51
d, Delay for Lane Group [s/veh]	79.66	5.25	2.23	56.70	2.46	0.00	49.03	53.90
Lane Group LOS	E	A	A	E	A	A	D	D
Critical Lane Group	No	Yes	No	Yes	No	No	No	Yes
50th-Percentile Queue Length [veh/ln]	0.06	3.48	0.09	0.61	0.72	0.00	0.05	1.98
50th-Percentile Queue Length [ft/ln]	1.41	87.03	2.20	15.15	18.07	0.00	1.30	49.46
95th-Percentile Queue Length [veh/ln]	0.10	6.27	0.16	1.09	1.30	0.00	0.09	3.56
95th-Percentile Queue Length [ft/ln]	2.54	156.65	3.96	27.27	32.52	0.00	2.33	89.03

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	79.66	5.25	2.23	56.70	2.46	0.00	49.03	49.03	49.03	53.90	53.90	53.90
Movement LOS	E	A	A	E	A	A	D	D	D	D	D	D
d_A, Approach Delay [s/veh]	5.23			3.60			49.03			53.90		
Approach LOS	A			A			D			D		
d_I, Intersection Delay [s/veh]	5.91											
Intersection LOS	A											
Intersection V/C	0.622											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	44.55	44.55	44.55
l_p,int, Pedestrian LOS Score for Intersection	0.000	3.384	1.728	1.844
Crosswalk LOS	F	C	A	A
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	1345	1327	309	309
d_b, Bicycle Delay [s]	5.89	6.22	39.31	39.31
l_b,int, Bicycle LOS Score for Intersection	3.054	2.385	1.563	1.678
Bicycle LOS	C	B	A	A

Sequence

Ring 1	1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Existing Plus Project

DHS 109

Vistro File: G:\...\AM E.vistro
Report File: G:\...\AM EP.pdf

Scenario 2 Existing Plus Project
4/25/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-10 EB Ramps (NS) at Garnet Ave (EW)	Signalized	HCM 6th Edition	EB Left	0.287	18.0	B
2	Indian Canyon Dr (NS) at Pierson Blvd (EW)	All-way stop	HCM 6th Edition	SB Thru	0.770	19.2	C
3	Indian Canyon Dr (NS) at Dillon Rd (EW)	All-way stop	HCM 6th Edition	WB Left	1.151	71.1	F
4	Indian Canyon Dr (NS) at 20th Ave (EW)	Signalized	HCM 6th Edition	SB Left	0.410	15.2	B
5	Indian Canyon Dr (NS) at Garnet Ave (EW)	Signalized	HCM 6th Edition	SB Left	0.548	17.8	B
6	I-10 WB Ramps (NS) at 20th Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.174	25.0	C
7	Little Morongo Rd (NS) at Pierson Blvd (EW)	All-way stop	HCM 6th Edition	WB Thru	0.378	10.3	B
8	Little Morongo Rd (NS) at 14th Ave/2 Bunch Palms (EW)	All-way stop	HCM 6th Edition	SB Thru	0.686	17.6	C
9	Little Morongo Rd (NS) at 15th Ave (EW)	Two-way stop	HCM 6th Edition	WB Left	0.288	31.7	D
10	Little Morongo Rd (NS) at Dillon Rd (EW)	All-way stop	HCM 6th Edition	WB Thru	0.694	17.9	C
11	Atlantic Ave (NS) at Dillon Rd (EW)	Two-way stop	HCM 6th Edition	SB Left	0.012	15.6	C
12	Palm Dr (NS) at Hacienda Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.502	19.1	B
13	Palm Dr (NS) at Ironwood Dr (EW)	Signalized	HCM 6th Edition	NB Left	0.496	14.1	B
14	Palm Dr (NS) at Two Bunch Palms Trail (EW)	Signalized	HCM 6th Edition	EB Right	1.058	59.1	E
15	Palm Dr (NS) at Camino Campanero (EW)	Signalized	HCM 6th Edition	SB Left	0.749	13.2	B
16	Palm Dr (NS) at Camino Aventura (EW)	Two-way stop	HCM 6th Edition	WB Left	0.196	24.1	C
17	Palm Dr (NS) at Dillon Rd (EW)	Signalized	HCM 6th Edition	EB Right	1.051	59.4	E

18	Palm Dr (NS) at Varner Rd (EW)	Signalized	HCM 6th Edition	SB Left	0.811	9.6	A

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-10 EB Ramps (NS) at Garnet Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	18.0
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.287

Intersection Setup

Name	I-10 EB Ramps		Garnet Ave		Garnet Ave	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		No		No	

Volumes

Name	I-10 EB Ramps		Garnet Ave		Garnet Ave	
Base Volume Input [veh/h]	304	17	7	29	57	126
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	69	0	0	0	0	8
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	373	17	7	29	57	134
Peak Hour Factor	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	109	5	2	8	17	39
Total Analysis Volume [veh/h]	437	20	8	34	67	157
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Permissive	Permissive	Protected	Permissive	Permissive	Overlap
Signal group	1	0	3	8	4	4
Auxiliary Signal Groups						4
Lead / Lag	Lead	-	Lead	-	-	-
Minimum Green [s]	7	0	7	7	7	7
Maximum Green [s]	30	0	30	30	30	30
Amber [s]	3.0	0.0	3.0	3.0	3.0	3.0
All red [s]	1.0	0.0	1.0	1.0	1.0	1.0
Split [s]	26	0	13	34	21	21
Vehicle Extension [s]	3.0	0.0	3.0	3.0	3.0	3.0
Walk [s]	7	0	0	7	7	7
Pedestrian Clearance [s]	10	0	0	10	10	10
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	2.0	2.0	2.0	2.0
I2, Clearance Lost Time [s]	2.0	0.0	2.0	2.0	2.0	2.0
Minimum Recall	No		No	No	No	No
Maximum Recall	No		No	No	No	No
Pedestrian Recall	No		No	No	No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	L	C	C	R
C, Cycle Length [s]	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	10	10	1	42	37	37
g / C, Green / Cycle	0.17	0.17	0.02	0.69	0.61	0.61
(v / s)_i Volume / Saturation Flow Rate	0.13	0.01	0.00	0.02	0.04	0.10
s, saturation flow rate [veh/h]	3459	1589	1781	1870	1870	1589
c, Capacity [veh/h]	601	276	30	1297	1141	970
d1, Uniform Delay [s]	23.51	20.80	29.22	2.88	4.74	5.07
k, delay calibration	0.11	0.11	0.11	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	1.71	0.11	4.76	0.04	0.10	0.36
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.73	0.07	0.27	0.03	0.06	0.16
d, Delay for Lane Group [s/veh]	25.22	20.91	33.98	2.92	4.84	5.43
Lane Group LOS	C	C	C	A	A	A
Critical Lane Group	Yes	No	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	2.87	0.23	0.15	0.09	0.28	0.72
50th-Percentile Queue Length [ft/ln]	71.84	5.74	3.70	2.26	7.02	18.07
95th-Percentile Queue Length [veh/ln]	5.17	0.41	0.27	0.16	0.51	1.30
95th-Percentile Queue Length [ft/ln]	129.31	10.33	6.67	4.07	12.64	32.52

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	25.22	20.91	33.98	2.92	4.84	5.43
Movement LOS	C	C	C	A	A	A
d_A, Approach Delay [s/veh]	25.03		8.83		5.25	
Approach LOS	C		A		A	
d_I, Intersection Delay [s/veh]	17.96					
Intersection LOS	B					
Intersection V/C	0.287					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	20.01	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	2.260	0.000	0.000
Crosswalk LOS	B	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	30.00	30.00	30.00
l_b,int, Bicycle LOS Score for Intersection	4.132	4.202	4.502
Bicycle LOS	D	D	E

Sequence

Ring 1	1	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 2: Indian Canyon Dr (NS) at Pierson Blvd (EW)

Control Type:	All-way stop	Delay (sec / veh):	19.2
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.770

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Pierson Blvd			Pierson Blvd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			55.00			50.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Pierson Blvd			Pierson Blvd		
Base Volume Input [veh/h]	8	134	91	48	248	29	21	89	33	127	52	20
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	2	1	0	18	5	0	0	9	14	0	1	2
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	10	135	91	66	253	29	21	98	47	127	53	22
Peak Hour Factor	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	3	40	27	20	76	9	6	29	14	38	16	7
Total Analysis Volume [veh/h]	12	161	109	79	303	35	25	117	56	152	63	26
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	513	575	541	481	539	492
Degree of Utilization, x	0.34	0.19	0.77	0.30	0.10	0.49

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	1.47	0.69	6.94	1.22	0.35	2.66
95th-Percentile Queue Length [ft]	36.85	17.34	173.60	30.56	8.65	66.38
Approach Delay [s/veh]	12.15		28.47	12.41		17.14
Approach LOS	B		D	B		C
Intersection Delay [s/veh]	19.23					
Intersection LOS	C					

Intersection Level Of Service Report
Intersection 3: Indian Canyon Dr (NS) at Dillon Rd (EW)

Control Type:	All-way stop	Delay (sec / veh):	71.1
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.151

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	16	193	119	17	410	16	4	78	50	346	72	18
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	142	18	0	0	0	18	0	24	3	2
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	16	193	261	35	410	16	4	96	50	370	75	20
Peak Hour Factor	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	4	54	73	10	114	4	1	27	14	103	21	6
Total Analysis Volume [veh/h]	18	215	291	39	457	18	4	107	56	412	84	22
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	434	475	496	496	396	429	496	495
Degree of Utilization, x	0.54	0.61	1.10	0.04	0.28	0.13	1.15	0.04

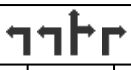
Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	3.10	4.03	16.75	0.11	1.13	0.45	18.30	0.14
95th-Percentile Queue Length [ft]	77.52	100.85	418.66	2.82	28.34	11.17	457.45	3.48
Approach Delay [s/veh]	20.95		96.83		14.32		114.44	
Approach LOS	C		F		B		F	
Intersection Delay [s/veh]	71.05							
Intersection LOS	F							

Intersection Level Of Service Report
Intersection 4: Indian Canyon Dr (NS) at 20th Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	15.2
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.410

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			20th Ave			20th Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	2	0	0
Pocket Length [ft]	157.00	100.00	100.00	82.00	100.00	100.00	75.00	100.00	100.00	190.00	100.00	100.00
Speed [mph]	55.00			55.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			20th Ave			20th Ave		
Base Volume Input [veh/h]	18	272	6	3	828	16	16	2	64	254	51	94
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	87	0	0	24	0	0	0	0	0	0	55
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	18	359	6	3	852	16	16	2	64	254	51	149
Peak Hour Factor	0.9190	0.9190	0.9190	0.9190	0.9190	0.9190	0.9190	0.9190	0.9190	0.9190	0.9190	0.9190
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	5	98	2	1	232	4	4	1	17	69	14	41
Total Analysis Volume [veh/h]	20	391	7	3	927	17	17	2	70	276	55	162
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	65
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	11	15	0	18	22	0	11	11	0	21	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	C	L	C	R	L	C	R
C, Cycle Length [s]	65	65	65	65	65	65	65	65	65	65	65	65
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	2	36	36	0	34	34	2	5	5	8	11	11
g / C, Green / Cycle	0.03	0.55	0.55	0.01	0.52	0.52	0.03	0.08	0.08	0.12	0.17	0.17
(v / s)_i Volume / Saturation Flow Rate	0.01	0.11	0.00	0.00	0.17	0.17	0.01	0.00	0.04	0.08	0.07	0.07
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1853	1781	1870	1589	3459	1715	1589
c, Capacity [veh/h]	62	1957	874	14	1860	968	55	150	127	406	286	265
d1, Uniform Delay [s]	30.74	7.44	6.65	32.20	9.02	9.02	30.96	27.64	28.89	27.63	24.24	24.24
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.93	0.23	0.02	8.02	0.48	0.93	3.17	0.04	3.65	2.00	0.88	0.95
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.32	0.20	0.01	0.22	0.33	0.33	0.31	0.01	0.55	0.68	0.39	0.39
d, Delay for Lane Group [s/veh]	33.67	7.67	6.67	40.22	9.50	9.95	34.13	27.68	32.54	29.62	25.12	25.19
Lane Group LOS	C	A	A	D	A	A	C	C	C	C	C	C
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	0.32	0.96	0.03	0.07	1.85	2.04	0.30	0.03	1.14	2.08	1.54	1.43
50th-Percentile Queue Length [ft/ln]	8.07	23.99	0.82	1.80	46.15	51.09	7.50	0.73	28.45	51.95	38.52	35.83
95th-Percentile Queue Length [veh/ln]	0.58	1.73	0.06	0.13	3.32	3.68	0.54	0.05	2.05	3.74	2.77	2.58
95th-Percentile Queue Length [ft/ln]	14.53	43.19	1.47	3.24	83.06	91.96	13.50	1.31	51.21	93.51	69.34	64.49

Movement, Approach, & Intersection Results

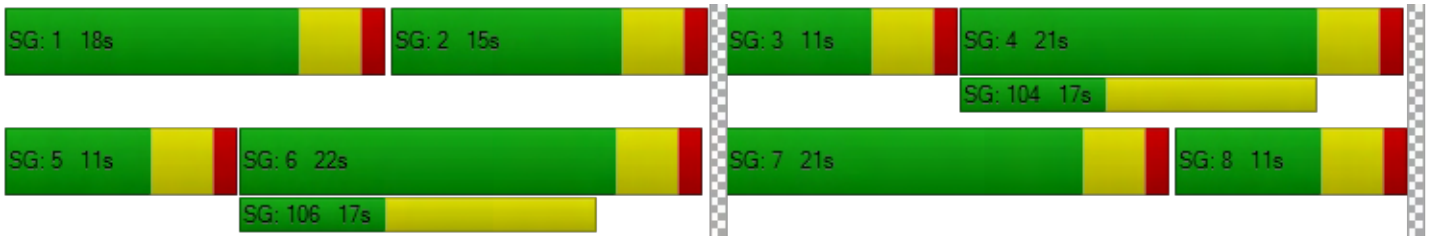
d_M, Delay for Movement [s/veh]	33.67	7.67	6.67	40.22	9.65	9.95	34.13	27.68	32.54	29.62	25.12	25.17
Movement LOS	C	A	A	D	A	A	C	C	C	C	C	C
d_A, Approach Delay [s/veh]	8.89			9.76			32.74			27.66		
Approach LOS	A			A			C			C		
d_I, Intersection Delay [s/veh]	15.15											
Intersection LOS	B											
Intersection V/C	0.410											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	22.43	22.43	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	2.887	2.157	0.000
Crosswalk LOS	F	C	B	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	338	554	215	523
d_b, Bicycle Delay [s]	22.43	16.99	25.88	17.72
l_b,int, Bicycle LOS Score for Intersection	1.904	2.080	1.706	2.373
Bicycle LOS	A	B	A	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 5: Indian Canyon Dr (NS) at Garnet Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	17.8
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.548

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Garnet Ave			Garnet Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	2	0	0	1	0	0
Pocket Length [ft]	132.00	100.00	100.00	223.00	100.00	100.00	166.00	100.00	100.00	75.00	100.00	100.00
Speed [mph]	55.00			55.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			Yes		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Garnet Ave			Garnet Ave		
Base Volume Input [veh/h]	19	441	10	153	774	141	120	12	204	22	5	9
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	18	0	0	3	8	69	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	19	459	10	153	777	149	189	12	204	22	5	9
Peak Hour Factor	0.8930	0.8930	0.8930	0.8930	0.8930	0.8930	0.8930	0.8930	0.8930	0.8930	0.8930	0.8930
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	5	128	3	43	218	42	53	3	57	6	1	3
Total Analysis Volume [veh/h]	21	514	11	171	870	167	212	13	228	25	6	10
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	65
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	8	7	4	0
Auxiliary Signal Groups									8			
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	7	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	30	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0
Split [s]	11	21	0	12	22	0	11	21	21	11	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	7	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	10	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No	No	No	No	
Maximum Recall	No	No		No	No		No	No	No	No	No	
Pedestrian Recall	No	No		No	No		No	No	No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	R	L	C	R	L	C
C, Cycle Length [s]	65	65	65	65	65	65	65	65	65	65	65
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	2	27	27	8	33	33	7	11	11	3	7
g / C, Green / Cycle	0.03	0.42	0.42	0.12	0.51	0.51	0.11	0.17	0.17	0.04	0.11
(v / s)_i Volume / Saturation Flow Rate	0.01	0.10	0.10	0.10	0.24	0.11	0.06	0.01	0.14	0.01	0.01
s, saturation flow rate [veh/h]	1781	3560	1850	1781	3560	1589	3459	1870	1589	1781	1684
c, Capacity [veh/h]	63	1492	775	214	1794	801	366	327	278	72	184
d1, Uniform Delay [s]	30.68	12.17	12.18	27.91	10.61	8.96	27.73	22.32	25.88	30.42	26.08
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	3.09	0.36	0.70	6.80	0.94	0.59	1.45	0.05	5.92	2.86	0.20
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.33	0.23	0.23	0.80	0.49	0.21	0.58	0.04	0.82	0.35	0.09
d, Delay for Lane Group [s/veh]	33.77	12.53	12.88	34.71	11.55	9.55	29.18	22.37	31.80	33.28	26.28
Lane Group LOS	C	B	B	C	B	A	C	C	C	C	C
Critical Lane Group	Yes	No	No	No	Yes	No	No	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	0.34	1.31	1.44	2.65	3.07	1.05	1.57	0.16	3.66	0.42	0.22
50th-Percentile Queue Length [ft/ln]	8.48	32.70	35.95	66.34	76.70	26.25	39.33	4.05	91.54	10.60	5.60
95th-Percentile Queue Length [veh/ln]	0.61	2.35	2.59	4.78	5.52	1.89	2.83	0.29	6.59	0.76	0.40
95th-Percentile Queue Length [ft/ln]	15.26	58.85	64.71	119.42	138.07	47.25	70.80	7.29	164.77	19.08	10.08

Movement, Approach, & Intersection Results

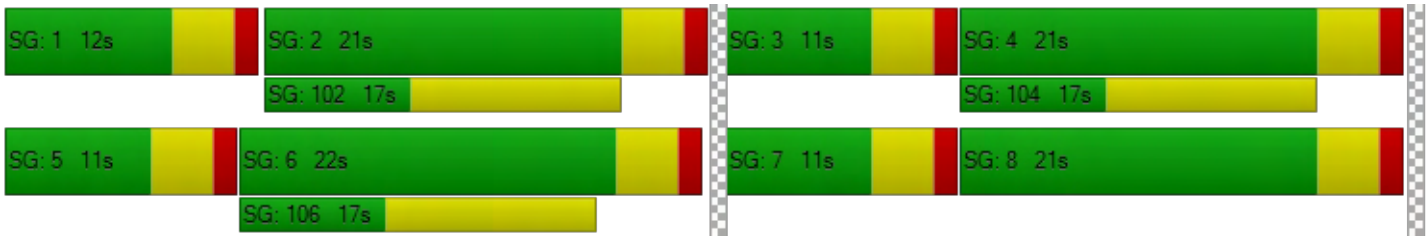
d_M, Delay for Movement [s/veh]	33.77	12.65	12.88	34.71	11.55	9.55	29.18	22.37	31.80	33.28	26.28	26.28
Movement LOS	C	B	B	C	B	A	C	C	C	C	C	C
d_A, Approach Delay [s/veh]	13.46			14.55			30.30			30.55		
Approach LOS	B			B			C			C		
d_I, Intersection Delay [s/veh]	17.75											
Intersection LOS	B											
Intersection V/C	0.548											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	22.43	22.43	22.43
l_p,int, Pedestrian LOS Score for Intersection	0.000	3.072	2.540	1.999
Crosswalk LOS	F	C	B	A
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	523	554	523	523
d_b, Bicycle Delay [s]	17.72	16.99	17.72	17.72
l_b,int, Bicycle LOS Score for Intersection	1.860	2.556	2.307	1.627
Bicycle LOS	A	B	B	A

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 6: I-10 WB Ramps (NS) at 20th Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	25.0
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.174

Intersection Setup

Name	I-10 WB Ramps		20th Ave		20th Ave	
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	1	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	90.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	No		No		No	

Volumes

Name	I-10 WB Ramps		20th Ave		20th Ave	
Base Volume Input [veh/h]	366	9	3	1	3	6
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	55	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	421	9	3	1	3	6
Peak Hour Factor	0.8900	0.8900	0.8900	0.8900	0.8900	0.8900
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	118	3	1	0	1	2
Total Analysis Volume [veh/h]	473	10	3	1	3	7
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	62
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-
Minimum Green [s]	7	0	7	0	7	7
Maximum Green [s]	30	0	30	0	30	30
Amber [s]	3.0	0.0	3.0	0.0	3.0	3.0
All red [s]	1.0	0.0	1.0	0.0	1.0	1.0
Split [s]	37	0	11	0	12	23
Vehicle Extension [s]	3.0	0.0	3.0	0.0	3.0	3.0
Walk [s]	7	0	7	0	0	7
Pedestrian Clearance [s]	10	0	10	0	0	10
Rest In Walk	No		No			No
I1, Start-Up Lost Time [s]	2.0	0.0	2.0	0.0	2.0	2.0
I2, Clearance Lost Time [s]	2.0	0.0	2.0	0.0	2.0	2.0
Minimum Recall	No		No		No	No
Maximum Recall	No		No		No	No
Pedestrian Recall	No		No		No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	C	L	C
C, Cycle Length [s]	62	62	62	62	62
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	11	11	38	0	43
g / C, Green / Cycle	0.18	0.18	0.62	0.01	0.69
(v / s)_i Volume / Saturation Flow Rate	0.14	0.01	0.00	0.00	0.00
s, saturation flow rate [veh/h]	3459	1589	1791	1781	3560
c, Capacity [veh/h]	642	295	1099	14	2441
d1, Uniform Delay [s]	23.87	20.74	4.65	30.66	3.08
k, delay calibration	0.11	0.11	0.50	0.11	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	1.67	0.05	0.01	7.93	0.00
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.74	0.03	0.00	0.22	0.00
d, Delay for Lane Group [s/veh]	25.54	20.78	4.66	38.58	3.08
Lane Group LOS	C	C	A	D	A
Critical Lane Group	Yes	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	3.21	0.12	0.02	0.07	0.01
50th-Percentile Queue Length [ft/ln]	80.23	2.91	0.42	1.82	0.24
95th-Percentile Queue Length [veh/ln]	5.78	0.21	0.03	0.13	0.02
95th-Percentile Queue Length [ft/ln]	144.42	5.23	0.76	3.27	0.43

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	25.54	20.78	4.66	4.66	38.58	3.08
Movement LOS	C	C	A	A	D	A
d_A, Approach Delay [s/veh]	25.44		4.66		13.73	
Approach LOS	C		A		B	
d_I, Intersection Delay [s/veh]	25.04					
Intersection LOS	C					
Intersection V/C	0.174					

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000
Crosswalk LOS	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	31.00	31.00	31.00
l_b,int, Bicycle LOS Score for Intersection	4.132	4.139	4.141
Bicycle LOS	D	D	D

Sequence

Ring 1	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 7: Little Morongo Rd (NS) at Pierson Blvd (EW)

Control Type:	All-way stop	Delay (sec / veh):	10.3
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.378

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			Pierson Blvd			Pierson Blvd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			45.00			50.00			50.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			Pierson Blvd			Pierson Blvd		
Base Volume Input [veh/h]	7	36	22	26	88	22	3	113	38	26	148	26
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	4	3	3	0	23	0	0	0	28	23	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	11	40	26	27	115	23	3	118	68	50	154	27
Peak Hour Factor	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	3	12	8	8	34	7	1	34	20	15	45	8
Total Analysis Volume [veh/h]	13	47	30	32	134	27	4	138	79	58	180	32
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	674	683	633	725	629	736
Degree of Utilization, x	0.13	0.28	0.22	0.11	0.38	0.04

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.46	1.16	0.86	0.37	1.76	0.14
95th-Percentile Queue Length [ft]	11.49	29.02	21.39	9.13	44.06	3.40
Approach Delay [s/veh]	9.16	10.34	9.40		11.38	
Approach LOS	A	B	A		B	
Intersection Delay [s/veh]	10.30					
Intersection LOS	B					

Intersection Level Of Service Report

Intersection 8: Little Morongo Rd (NS) at 14th Ave/2 Bunch Palms (EW)

Control Type:	All-way stop	Delay (sec / veh):	17.6
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.686

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			14th Ave			Two Bunch Palms Trail		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			30.00			45.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			14th Ave			Two Bunch Palms Trail		
Base Volume Input [veh/h]	2	123	80	84	211	1	1	8	15	187	6	29
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	10	9	0	74	0	0	0	0	69	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	2	135	91	86	289	1	1	8	15	260	6	30
Peak Hour Factor	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	39	26	25	83	0	0	2	4	75	2	9
Total Analysis Volume [veh/h]	2	155	105	99	333	1	1	9	17	299	7	35
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	627	631	546	510	616
Degree of Utilization, x	0.42	0.69	0.05	0.60	0.06

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	2.06	5.39	0.16	3.90	0.18
95th-Percentile Queue Length [ft]	51.49	134.76	3.90	97.46	4.51
Approach Delay [s/veh]	12.80	20.25	9.95	18.65	
Approach LOS	B	C	A	C	
Intersection Delay [s/veh]	17.64				
Intersection LOS	C				

Intersection Level Of Service Report
Intersection 9: Little Morongo Rd (NS) at 15th Ave (EW)

Control Type:	Two-way stop	Delay (sec / veh):	31.7
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.288

Intersection Setup

Name	Little Morongo Rd		Little Morongo Rd		15th Ave	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		No	

Volumes

Name	Little Morongo Rd		Little Morongo Rd		15th Ave	
Base Volume Input [veh/h]	205	0	0	413	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	316	143	0	50	19
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	205	316	143	413	50	19
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	54	83	38	109	13	5
Total Analysis Volume [veh/h]	216	333	151	435	53	20
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.15	0.00	0.29	0.03
d_M, Delay for Movement [s/veh]	0.00	0.00	9.14	0.00	31.72	17.57
Movement LOS	A	A	A	A	D	C
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.49	0.49	1.31	1.31
95th-Percentile Queue Length [ft/ln]	0.00	0.00	12.17	12.17	32.79	32.79
d_A, Approach Delay [s/veh]	0.00		2.35		27.84	
Approach LOS	A		A		D	
d_I, Intersection Delay [s/veh]	2.82					
Intersection LOS	D					

Intersection Level Of Service Report

Intersection 10: Little Morongo Rd (NS) at Dillon Rd (EW)

Control Type:	All-way stop	Delay (sec / veh):	17.9
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.694

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	1	0	0	1	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	205.00	100.00	100.00	146.00	100.00	100.00
Speed [mph]	30.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	0	0	2	117	0	173	61	75	1	1	200	42
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	21	0	29	178	0	0	0	0	138
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	2	143	0	209	241	78	1	1	208	182
Peak Hour Factor	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	1	38	0	56	64	21	0	0	55	48
Total Analysis Volume [veh/h]	0	0	2	152	0	223	257	83	1	1	222	194
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	551	621	520	562	526	600
Degree of Utilization, x	0.00	0.60	0.49	0.15	0.00	0.69

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.01	4.05	2.71	0.52	0.01	5.48
95th-Percentile Queue Length [ft]	0.27	101.22	67.84	13.08	0.14	137.04
Approach Delay [s/veh]	9.56	17.26	14.75		21.13	
Approach LOS	A	C	B		C	
Intersection Delay [s/veh]	17.92					
Intersection LOS	C					

Intersection Level Of Service Report
Intersection 11: Atlantic Ave (NS) at Dillon Rd (EW)

Control Type:	Two-way stop	Delay (sec / veh):	15.6
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.012

Intersection Setup

Name	Atlantic Ave		Dillon Rd		Dillon Rd	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		55.00		55.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		No	

Volumes

Name	Atlantic Ave		Dillon Rd		Dillon Rd	
Base Volume Input [veh/h]	4	4	3	263	345	1
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	21	138	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	4	4	3	295	497	1
Peak Hour Factor	0.9750	0.9750	0.9750	0.9750	0.9750	0.9750
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	1	1	76	127	0
Total Analysis Volume [veh/h]	4	4	3	303	510	1
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane	No		
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.01	0.00	0.00	0.01	0.00
d_M, Delay for Movement [s/veh]	15.64	11.55	8.42	0.00	0.00	0.00
Movement LOS	C	B	A	A	A	A
95th-Percentile Queue Length [veh/ln]	0.06	0.06	0.01	0.01	0.00	0.00
95th-Percentile Queue Length [ft/ln]	1.43	1.43	0.21	0.21	0.00	0.00
d_A, Approach Delay [s/veh]	13.60		0.08		0.00	
Approach LOS	B		A		A	
d_I, Intersection Delay [s/veh]	0.16					
Intersection LOS	C					

Intersection Level Of Service Report
Intersection 12: Palm Dr (NS) at Hacienda Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	19.1
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.502

Intersection Setup

Name	Palm Dr			Palm Dr			Hacienda Ave			Hacienda Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0
Pocket Length [ft]	110.00	100.00	100.00	90.00	100.00	100.00	70.00	100.00	100.00	80.00	100.00	100.00
Speed [mph]	35.00			35.00			45.00			40.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Hacienda Ave			Hacienda Ave		
Base Volume Input [veh/h]	50	565	44	85	657	22	23	124	93	121	121	96
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	1	3	2	0	23	0	0	0	9	14	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	52	579	47	87	693	22	23	126	104	137	123	98
Peak Hour Factor	0.9690	0.9690	0.9690	0.9690	0.9690	0.9690	0.9690	0.9690	0.9690	0.9690	0.9690	0.9690
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	13	149	12	22	179	6	6	33	27	35	32	25
Total Analysis Volume [veh/h]	54	598	49	90	715	23	24	130	107	141	127	101
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	65
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	11	21	0	11	21	0	11	21	0	12	22	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	C	L	C	C	L	C	R
C, Cycle Length [s]	65	65	65	65	65	65	65	65	65	65	65	65
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	4	30	30	6	31	31	3	7	7	7	11	11
g / C, Green / Cycle	0.07	0.46	0.46	0.09	0.48	0.48	0.04	0.11	0.11	0.10	0.17	0.17
(v / s)_i Volume / Saturation Flow Rate	0.03	0.18	0.18	0.05	0.20	0.20	0.01	0.07	0.07	0.08	0.07	0.06
s, saturation flow rate [veh/h]	1781	1870	1821	1781	1870	1850	1781	1870	1604	1781	1870	1589
c, Capacity [veh/h]	124	854	831	158	889	880	72	200	172	183	317	270
d1, Uniform Delay [s]	29.15	11.69	11.69	28.56	11.19	11.20	30.48	27.85	28.01	28.54	24.15	24.03
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.42	1.31	1.35	3.23	1.44	1.46	2.71	3.02	4.34	6.74	0.82	0.86
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.44	0.38	0.38	0.57	0.42	0.42	0.33	0.61	0.66	0.77	0.40	0.37
d, Delay for Lane Group [s/veh]	31.56	12.99	13.04	31.79	12.64	12.65	33.19	30.87	32.34	35.28	24.96	24.90
Lane Group LOS	C	B	B	C	B	B	C	C	C	D	C	C
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	0.85	2.96	2.90	1.41	3.29	3.26	0.39	1.83	1.75	2.32	1.67	1.33
50th-Percentile Queue Length [ft/ln]	21.21	74.09	72.52	35.29	82.21	81.43	9.75	45.63	43.87	58.01	41.65	33.15
95th-Percentile Queue Length [veh/ln]	1.53	5.33	5.22	2.54	5.92	5.86	0.70	3.29	3.16	4.18	3.00	2.39
95th-Percentile Queue Length [ft/ln]	38.18	133.35	130.54	63.52	147.97	146.57	17.56	82.14	78.97	104.42	74.96	59.68

Movement, Approach, & Intersection Results

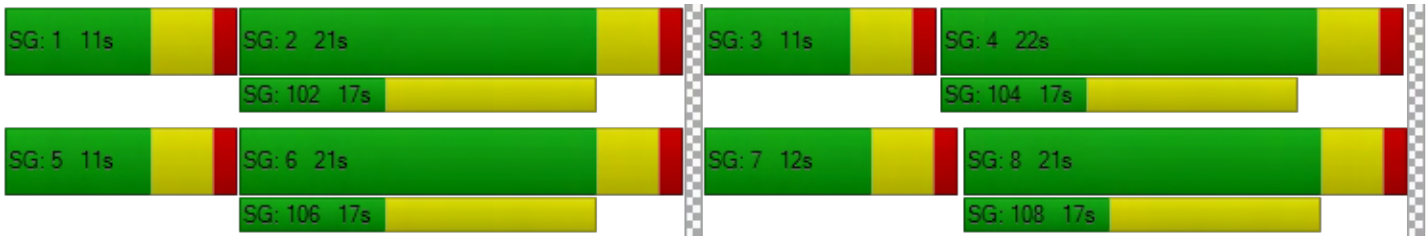
d_M, Delay for Movement [s/veh]	31.56	13.01	13.04	31.79	12.64	12.65	33.19	30.95	32.34	35.28	24.96	24.90
Movement LOS	C	B	B	C	B	B	C	C	C	D	C	C
d_A, Approach Delay [s/veh]	14.44			14.72			31.73			28.89		
Approach LOS	B			B			C			C		
d_I, Intersection Delay [s/veh]	19.11											
Intersection LOS	B											
Intersection V/C	0.502											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	22.43	22.43	22.43	22.43
l_p,int, Pedestrian LOS Score for Intersection	2.660	2.635	2.283	2.448
Crosswalk LOS	B	B	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	523	523	523	554
d_b, Bicycle Delay [s]	17.72	17.72	17.72	16.99
l_b,int, Bicycle LOS Score for Intersection	2.138	2.243	1.775	2.168
Bicycle LOS	B	B	A	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 13: Palm Dr (NS) at Ironwood Dr (EW)

Control Type:	Signalized	Delay (sec / veh):	14.1
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.496

Intersection Setup

Name	Palm Dr			Palm Dr			Ironwood Dr			Ironwood Dr		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0
Pocket Length [ft]	117.00	100.00	100.00	100.00	100.00	100.00	58.00	100.00	100.00	60.00	100.00	100.00
Speed [mph]	35.00			35.00			35.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Ironwood Dr			Ironwood Dr		
Base Volume Input [veh/h]	15	634	40	25	778	15	26	34	35	85	42	32
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	1	6	2	0	46	0	0	0	9	14	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	16	640	42	25	824	15	26	34	44	99	42	32
Peak Hour Factor	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	4	178	12	7	230	4	7	9	12	28	12	9
Total Analysis Volume [veh/h]	18	713	47	28	919	17	29	38	49	110	47	36
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	65
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	12	22	0	11	21	0	11	21	0	11	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	C	L	C	L	C
C, Cycle Length [s]	65	65	65	65	65	65	65	65	65	65
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	2	35	35	3	35	35	3	6	6	9
g / C, Green / Cycle	0.03	0.53	0.53	0.04	0.54	0.54	0.05	0.09	0.09	0.13
(v / s)_i Volume / Saturation Flow Rate	0.01	0.21	0.21	0.02	0.25	0.25	0.02	0.05	0.06	0.05
s, saturation flow rate [veh/h]	1781	1870	1830	1781	1870	1858	1781	1701	1781	1737
c, Capacity [veh/h]	57	987	966	80	1012	1005	82	148	169	235
d1, Uniform Delay [s]	30.88	9.15	9.15	30.23	9.18	9.18	30.18	28.68	28.51	25.62
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	3.08	1.16	1.18	2.57	1.53	1.54	2.54	3.68	4.20	0.90
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.31	0.39	0.39	0.35	0.46	0.46	0.35	0.59	0.65	0.35
d, Delay for Lane Group [s/veh]	33.96	10.30	10.33	32.80	10.71	10.72	32.72	32.36	32.71	26.52
Lane Group LOS	C	B	B	C	B	B	C	C	C	C
Critical Lane Group	Yes	No	No	No	No	Yes	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	0.31	2.92	2.87	0.46	3.66	3.64	0.48	1.38	1.75	1.15
50th-Percentile Queue Length [ft/ln]	7.78	73.02	71.69	11.52	91.55	91.03	11.89	34.55	43.86	28.80
95th-Percentile Queue Length [veh/ln]	0.56	5.26	5.16	0.83	6.59	6.55	0.86	2.49	3.16	2.07
95th-Percentile Queue Length [ft/ln]	14.01	131.43	129.05	20.74	164.79	163.86	21.41	62.19	78.95	51.84

Movement, Approach, & Intersection Results

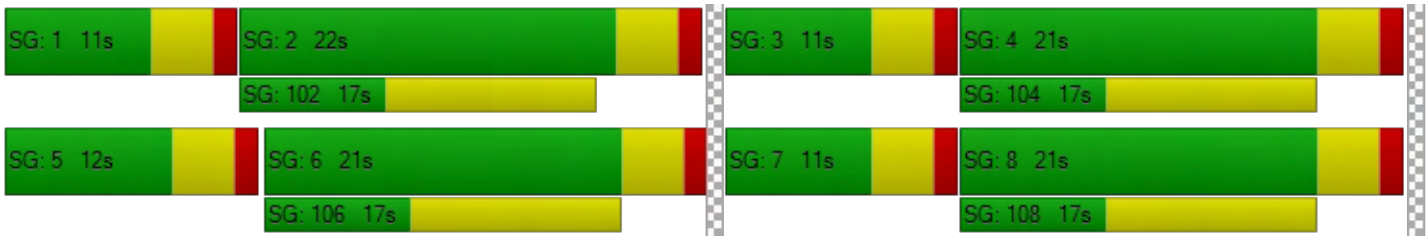
d_M, Delay for Movement [s/veh]	33.96	10.32	10.33	32.80	10.72	10.72	32.72	32.36	32.36	32.71	26.52	26.52
Movement LOS	C	B	B	C	B	B	C	C	C	C	C	C
d_A, Approach Delay [s/veh]	10.87			11.36			32.45			30.05		
Approach LOS	B			B			C			C		
d_I, Intersection Delay [s/veh]	14.12											
Intersection LOS	B											
Intersection V/C	0.496											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	22.43	22.43	22.43	22.43
l_p,int, Pedestrian LOS Score for Intersection	2.787	2.678	1.997	2.038
Crosswalk LOS	C	B	A	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	554	523	523	523
d_b, Bicycle Delay [s]	16.99	17.72	17.72	17.72
l_b,int, Bicycle LOS Score for Intersection	2.201	2.355	1.751	1.878
Bicycle LOS	B	B	A	A

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 14: Palm Dr (NS) at Two Bunch Palms Trail (EW)

Control Type:	Signalized	Delay (sec / veh):	59.1
Analysis Method:	HCM 6th Edition	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.058

Intersection Setup

Name	Palm Dr			Palm Dr			Two Bunch Palms Trail			Two Bunch Palms Trail		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	1
Pocket Length [ft]	96.00	100.00	100.00	101.00	100.00	100.00	95.00	100.00	100.00	70.00	100.00	130.00
Speed [mph]	40.00			35.00			40.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Two Bunch Palms Trail			Two Bunch Palms Trail		
Base Volume Input [veh/h]	181	594	188	64	885	24	40	182	373	259	139	45
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	3	0	0	23	46	6	3	0	0	23	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	185	609	192	65	926	70	47	189	380	264	165	46
Peak Hour Factor	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	54	178	56	19	271	20	14	55	111	77	48	13
Total Analysis Volume [veh/h]	217	713	225	76	1084	82	55	221	445	309	193	54
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	95
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	15	22	0	24	31	0	14	29	0	20	35	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	95	95	95	95	95	95	95	95	95	95	95	95
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	11	32	32	6	27	27	5	25	25	16	36	36
g / C, Green / Cycle	0.12	0.34	0.34	0.06	0.29	0.29	0.06	0.26	0.26	0.17	0.37	0.37
(v / s)_i Volume / Saturation Flow Rate	0.12	0.20	0.14	0.04	0.30	0.05	0.03	0.12	0.28	0.17	0.10	0.03
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	206	1202	537	114	1017	454	101	489	416	300	698	593
d1, Uniform Delay [s]	42.01	26.07	24.29	43.48	33.94	25.56	43.63	29.39	35.09	39.51	20.82	19.32
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.37	0.12	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	43.44	2.16	2.40	6.52	47.40	0.87	4.50	0.65	58.18	33.38	0.21	0.07
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	1.05	0.59	0.42	0.67	1.07	0.18	0.54	0.45	1.07	1.03	0.28	0.09
d, Delay for Lane Group [s/veh]	85.46	28.23	26.69	50.00	81.34	26.43	48.12	30.04	93.27	72.89	21.03	19.39
Lane Group LOS	F	C	C	D	F	C	D	C	F	F	C	B
Critical Lane Group	Yes	No	No	No	Yes	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	7.16	6.67	4.07	1.92	17.92	1.47	1.35	4.13	15.80	9.58	2.93	0.76
50th-Percentile Queue Length [ft/ln]	179.06	166.83	101.74	48.03	448.01	36.81	33.75	103.31	394.94	239.50	73.18	19.01
95th-Percentile Queue Length [veh/ln]	11.78	10.91	7.33	3.46	25.85	2.65	2.43	7.44	23.22	14.86	5.27	1.37
95th-Percentile Queue Length [ft/ln]	294.55	272.75	183.14	86.45	646.15	66.26	60.75	185.96	580.51	371.59	131.72	34.22

Movement, Approach, & Intersection Results

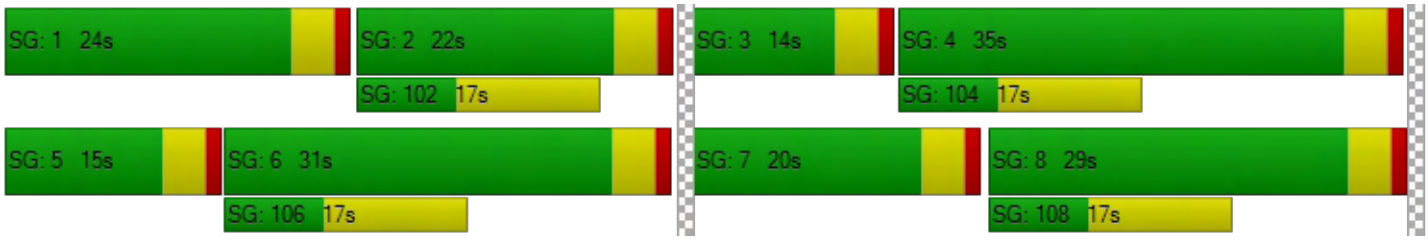
d_M, Delay for Movement [s/veh]	85.46	28.23	26.69	50.00	81.34	26.43	48.12	30.04	93.27	72.89	21.03	19.39
Movement LOS	F	C	C	D	F	C	D	C	F	F	C	B
d_A, Approach Delay [s/veh]	38.68			75.80			70.45			49.69		
Approach LOS	D			E			E			D		
d_I, Intersection Delay [s/veh]	59.13											
Intersection LOS	E											
Intersection V/C	1.058											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	37.14	37.14	37.14	37.14
l_p,int, Pedestrian LOS Score for Intersection	3.104	2.846	2.617	2.440
Crosswalk LOS	C	C	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	379	568	526	653
d_b, Bicycle Delay [s]	31.21	24.34	25.79	21.56
l_b,int, Bicycle LOS Score for Intersection	2.512	2.584	2.749	2.477
Bicycle LOS	B	B	B	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 15: Palm Dr (NS) at Camino Campanero (EW)

Control Type:	Signalized	Delay (sec / veh):	13.2
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.749

Intersection Setup

Name	Palm Dr		Palm Dr		Camino Campanero	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	1	0	0	1
Pocket Length [ft]	100.00	100.00	80.00	100.00	100.00	87.00
Speed [mph]	45.00		40.00		25.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		No		Yes	

Volumes

Name	Palm Dr		Palm Dr		Camino Campanero	
Base Volume Input [veh/h]	747	28	190	1234	24	213
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	3	2	0	23	14	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	750	30	190	1257	38	213
Peak Hour Factor	0.8130	0.8130	0.8130	0.8130	0.8130	0.8130
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	231	9	58	387	12	65
Total Analysis Volume [veh/h]	923	37	234	1546	47	262
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Permissive	Permissive	Protected	Permissive	Split	Split
Signal group	2	0	1	6	7	0
Auxiliary Signal Groups						
Lead / Lag	-	-	Lead	-	Lead	-
Minimum Green [s]	7	0	7	7	7	0
Maximum Green [s]	30	0	30	30	30	0
Amber [s]	3.0	0.0	3.0	3.0	3.0	0.0
All red [s]	1.0	0.0	1.0	1.0	1.0	0.0
Split [s]	21	0	18	39	21	0
Vehicle Extension [s]	3.0	0.0	3.0	3.0	3.0	0.0
Walk [s]	7	0	0	7	7	0
Pedestrian Clearance [s]	10	0	0	10	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	0.0	2.0	2.0	2.0	0.0
Minimum Recall	No		No	No	No	
Maximum Recall	No		No	No	No	
Pedestrian Recall	No		No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	R	L	C	L	R
C, Cycle Length [s]	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	26	26	10	40	12	12
g / C, Green / Cycle	0.44	0.44	0.16	0.67	0.20	0.20
(v / s)_i Volume / Saturation Flow Rate	0.26	0.02	0.13	0.43	0.03	0.16
s, saturation flow rate [veh/h]	3560	1589	1781	3560	1781	1589
c, Capacity [veh/h]	1562	697	289	2377	355	317
d1, Uniform Delay [s]	12.80	9.71	24.29	5.88	19.80	23.08
k, delay calibration	0.50	0.50	0.11	0.50	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	1.65	0.14	5.34	1.40	0.17	5.46
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.59	0.05	0.81	0.65	0.13	0.83
d, Delay for Lane Group [s/veh]	14.45	9.85	29.64	7.27	19.97	28.54
Lane Group LOS	B	A	C	A	B	C
Critical Lane Group	No	No	No	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	3.96	0.25	3.30	3.46	0.53	3.84
50th-Percentile Queue Length [ft/ln]	98.96	6.17	82.50	86.62	13.35	96.07
95th-Percentile Queue Length [veh/ln]	7.13	0.44	5.94	6.24	0.96	6.92
95th-Percentile Queue Length [ft/ln]	178.13	11.11	148.51	155.92	24.02	172.92

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	14.45	9.85	29.64	7.27	19.97	28.54
Movement LOS	B	A	C	A	B	C
d_A, Approach Delay [s/veh]	14.27		10.21		27.24	
Approach LOS	B		B		C	
d_I, Intersection Delay [s/veh]	13.22					
Intersection LOS	B					
Intersection V/C	0.749					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	0.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	20.01	0.00	20.01
I_p,int, Pedestrian LOS Score for Intersection	3.024	0.000	2.075
Crosswalk LOS	C	F	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	30.00	30.00	30.00
I_b,int, Bicycle LOS Score for Intersection	4.924	5.601	4.132
Bicycle LOS	E	F	D

Sequence

Ring 1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 16: Palm Dr (NS) at Camino Aventura (EW)

Control Type:	Two-way stop	Delay (sec / veh):	24.1
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.196

Intersection Setup

Name	Palm Dr		Palm Dr		Camino Aventura	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	1	0	0	0
Pocket Length [ft]	100.00	100.00	200.00	100.00	100.00	100.00
Speed [mph]	45.00		45.00		40.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		Yes	

Volumes

Name	Palm Dr		Palm Dr		Camino Aventura	
Base Volume Input [veh/h]	608	14	77	1295	24	92
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	5	2	0	37	14	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	613	16	77	1332	38	92
Peak Hour Factor	0.8290	0.8290	0.8290	0.8290	0.8290	0.8290
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	185	5	23	402	11	28
Total Analysis Volume [veh/h]	739	19	93	1607	46	111
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			Yes
Number of Storage Spaces in Median	0	0	2

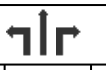
Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.11	0.02	0.20	0.18
d_M, Delay for Movement [s/veh]	0.00	0.00	9.76	0.00	24.10	11.96
Movement LOS	A	A	A	A	C	B
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.37	0.00	0.71	0.64
95th-Percentile Queue Length [ft/ln]	0.00	0.00	9.19	0.00	17.80	15.96
d_A, Approach Delay [s/veh]	0.00		0.53		15.52	
Approach LOS	A		A		C	
d_I, Intersection Delay [s/veh]	1.28					
Intersection LOS	C					

Intersection Level Of Service Report
Intersection 17: Palm Dr (NS) at Dillon Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	59.4
Analysis Method:	HCM 6th Edition	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.051

Intersection Setup

Name	Palm Dr			Palm Dr			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	1	1	0	1
Pocket Length [ft]	150.00	100.00	100.00	150.00	100.00	100.00	155.00	100.00	155.00	140.00	100.00	140.00
Speed [mph]	60.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	116	510	44	21	1220	52	50	67	262	338	215	59
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	55	0	0	0	0	51	7	5	9	0	32	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	171	510	44	21	1220	103	57	72	271	338	247	59
Peak Hour Factor	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	47	139	12	6	334	28	16	20	74	92	68	16
Total Analysis Volume [veh/h]	187	558	48	23	1335	113	62	79	296	370	270	65
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	95
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	14	36	0	15	37	0	11	21	0	23	33	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	95	95	95	95	95	95	95	95	95	95	95	95
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	10	40	40	3	33	33	6	17	17	19	30	30
g / C, Green / Cycle	0.11	0.42	0.42	0.03	0.35	0.35	0.06	0.18	0.18	0.20	0.32	0.32
(v / s)_i Volume / Saturation Flow Rate	0.11	0.16	0.03	0.01	0.37	0.07	0.03	0.04	0.19	0.21	0.14	0.04
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	188	1497	668	61	1243	555	107	331	281	356	593	504
d1, Uniform Delay [s]	42.49	18.94	16.47	44.92	30.95	21.69	43.53	33.62	39.12	38.03	25.91	23.11
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.15	0.20	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	29.20	0.71	0.21	3.82	47.99	0.83	4.92	0.37	44.00	40.58	0.55	0.11
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.99	0.37	0.07	0.38	1.07	0.20	0.58	0.24	1.05	1.04	0.46	0.13
d, Delay for Lane Group [s/veh]	71.70	19.65	16.67	48.74	78.93	22.51	48.45	33.99	83.12	78.61	26.45	23.23
Lane Group LOS	E	B	B	D	F	C	D	C	F	F	C	C
Critical Lane Group	Yes	No	No	No	Yes	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	5.57	3.81	0.59	0.57	20.87	1.73	1.48	1.49	9.49	11.63	4.50	0.96
50th-Percentile Queue Length [ft/ln]	139.30	95.24	14.66	14.13	521.69	43.28	37.06	37.31	237.13	290.80	112.52	24.08
95th-Percentile Queue Length [veh/ln]	9.44	6.86	1.06	1.02	29.73	3.12	2.67	2.69	14.89	17.57	7.98	1.73
95th-Percentile Queue Length [ft/ln]	236.08	171.43	26.39	25.44	743.32	77.91	66.70	67.16	372.34	439.20	199.50	43.35

Movement, Approach, & Intersection Results

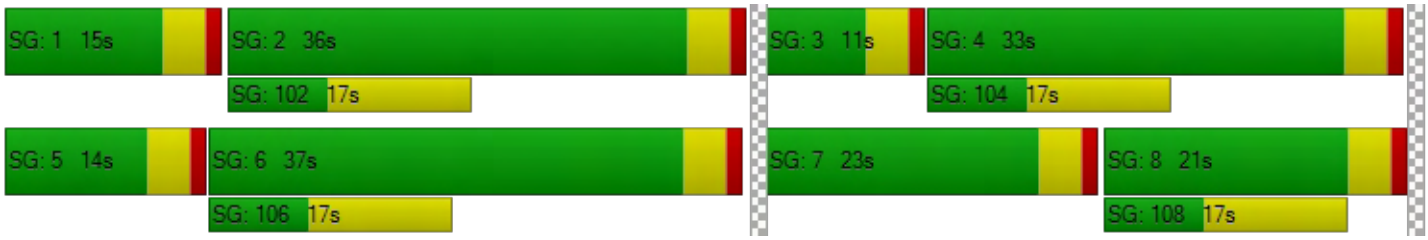
d_M, Delay for Movement [s/veh]	71.70	19.65	16.67	48.74	78.93	22.51	48.45	33.99	83.12	78.61	26.45	23.23
Movement LOS	E	B	B	D	F	C	D	C	F	F	C	C
d_A, Approach Delay [s/veh]	31.74			74.13			69.32			53.53		
Approach LOS	C			E			E			D		
d_I, Intersection Delay [s/veh]	59.38											
Intersection LOS	E											
Intersection V/C	1.051											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	37.14	37.14	37.14	37.14
l_p,int, Pedestrian LOS Score for Intersection	3.374	3.147	2.583	2.515
Crosswalk LOS	C	C	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	674	695	358	611
d_b, Bicycle Delay [s]	20.89	20.23	32.02	22.93
l_b,int, Bicycle LOS Score for Intersection	2.214	2.773	2.281	2.723
Bicycle LOS	B	C	B	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 18: Palm Dr (NS) at Varner Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	9.6
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.811

Intersection Setup

Name	Palm Dr			Palm Dr			Varner Rd			Varner Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	0	0	0	0	0	0
Pocket Length [ft]	173.00	100.00	100.00	195.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	60.00			60.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Varner Rd			Varner Rd		
Base Volume Input [veh/h]	0	663	27	35	1859	0	0	0	0	55	0	15
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	37	0	3	6	0	0	0	0	0	0	18
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	713	28	39	1902	0	0	0	0	56	0	33
Peak Hour Factor	0.8190	0.8190	0.8190	0.8190	0.8190	0.8190	0.8190	0.8190	0.8190	0.8190	0.8190	0.8190
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	218	9	12	581	0	0	0	0	17	0	10
Total Analysis Volume [veh/h]	0	871	34	48	2322	0	0	0	0	68	0	40
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	110
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	5	2	0	1	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	-	-	-	-	-	-
Minimum Green [s]	7	7	0	7	7	0	0	7	0	0	7	0
Maximum Green [s]	30	30	0	30	30	0	0	30	0	0	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	11	76	0	13	78	0	0	21	0	0	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall	No	No		No	No			No			No	
Maximum Recall	No	No		No	No			No			No	
Pedestrian Recall	No	No		No	No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	C	C
C, Cycle Length [s]	110	110	110	110	110	110	110	110
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	0	83	83	5	89	89	9	9
g / C, Green / Cycle	0.00	0.76	0.76	0.05	0.81	0.81	0.08	0.08
(v / s)_i Volume / Saturation Flow Rate	0.00	0.24	0.02	0.03	0.65	0.00	0.00	0.07
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1486	1541
c, Capacity [veh/h]	1	2694	1203	88	2868	1281	159	184
d1, Uniform Delay [s]	0.00	4.31	3.32	51.07	5.97	0.00	0.00	49.36
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.00	0.32	0.04	5.18	2.59	0.00	0.00	2.96
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.00	0.32	0.03	0.55	0.81	0.00	0.00	0.59
d, Delay for Lane Group [s/veh]	0.00	4.63	3.37	56.26	8.56	0.00	0.00	52.32
Lane Group LOS	A	A	A	E	A	A	A	D
Critical Lane Group	No	No	No	No	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	0.00	1.94	0.12	1.35	6.61	0.00	0.00	2.93
50th-Percentile Queue Length [ft/ln]	0.00	48.61	3.11	33.75	165.25	0.00	0.00	73.23
95th-Percentile Queue Length [veh/ln]	0.00	3.50	0.22	2.43	10.83	0.00	0.00	5.27
95th-Percentile Queue Length [ft/ln]	0.00	87.49	5.60	60.76	270.66	0.00	0.00	131.82

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	0.00	4.63	3.37	56.26	8.56	0.00	0.00	0.00	0.00	52.32	52.32	52.32
Movement LOS	A	A	A	E	A	A	A	A	A	D	D	D
d_A, Approach Delay [s/veh]	4.58			9.53			0.00			52.32		
Approach LOS	A			A			A			D		
d_I, Intersection Delay [s/veh]	9.57											
Intersection LOS	A											
Intersection V/C	0.811											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	44.55	44.55	44.55
l_p,int, Pedestrian LOS Score for Intersection	0.000	3.517	1.724	1.894
Crosswalk LOS	F	D	A	A
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	1309	1345	309	309
d_b, Bicycle Delay [s]	6.56	5.89	39.31	39.31
l_b,int, Bicycle LOS Score for Intersection	2.306	3.515	1.560	1.738
Bicycle LOS	B	D	A	A

Sequence

Ring 1	1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



DHS 109

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Scenario 2 Existing Plus Project
4/25/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-10 EB Ramps (NS) at Garnet Ave (EW)	Signalized	HCM 6th Edition	EB Left	0.231	15.4	B
2	Indian Canyon Dr (NS) at Pierson Blvd (EW)	All-way stop	HCM 6th Edition	NB Thru	0.636	15.4	C
3	Indian Canyon Dr (NS) at Dillon Rd (EW)	All-way stop	HCM 6th Edition	WB Left	0.952	36.7	E
4	Indian Canyon Dr (NS) at 20th Ave (EW)	Signalized	HCM 6th Edition	EB Right	0.396	16.3	B
5	Indian Canyon Dr (NS) at Garnet Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.405	14.7	B
6	I-10 WB Ramps (NS) at 20th Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.197	24.1	C
7	Little Morongo Rd (NS) at Pierson Blvd (EW)	All-way stop	HCM 6th Edition	EB Thru	0.346	10.7	B
8	Little Morongo Rd (NS) at 14th Ave/2 Bunch Palms (EW)	All-way stop	HCM 6th Edition	NB Right	0.706	14.8	B
9	Little Morongo Rd (NS) at 15th Ave (EW)	Two-way stop	HCM 6th Edition	WB Left	0.783	75.2	F
10	Little Morongo Rd (NS) at Dillon Rd (EW)	All-way stop	HCM 6th Edition	SB Right	0.836	23.0	C
11	Atlantic Ave (NS) at Dillon Rd (EW)	Two-way stop	HCM 6th Edition	SB Left	0.008	14.6	B
12	Palm Dr (NS) at Hacienda Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.666	21.6	C
13	Palm Dr (NS) at Ironwood Dr (EW)	Signalized	HCM 6th Edition	WB Right	0.530	14.1	B
14	Palm Dr (NS) at Two Bunch Palms Trail (EW)	Signalized	HCM 6th Edition	WB Left	0.862	30.3	C
15	Palm Dr (NS) at Camino Campanero (EW)	Signalized	HCM 6th Edition	SB Left	0.717	11.2	B
16	Palm Dr (NS) at Camino Aventura (EW)	Two-way stop	HCM 6th Edition	WB Left	0.149	28.3	D
17	Palm Dr (NS) at Dillon Rd (EW)	Signalized	HCM 6th Edition	WB Left	0.798	25.8	C

18	Palm Dr (NS) at Varner Rd (EW)	Signalized	HCM 6th Edition	NB Left	0.642	6.8	A

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-10 EB Ramps (NS) at Garnet Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	15.4
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.231

Intersection Setup

Name	I-10 EB Ramps		Garnet Ave		Garnet Ave	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		No		No	

Volumes

Name	I-10 EB Ramps		Garnet Ave		Garnet Ave	
Base Volume Input [veh/h]	200	11	10	65	54	93
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	12	0	0	0	0	50
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	212	11	10	65	54	143
Peak Hour Factor	0.8390	0.8390	0.8390	0.8390	0.8390	0.8390
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	63	3	3	19	16	43
Total Analysis Volume [veh/h]	253	13	12	77	64	170
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	63
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Permissive	Permissive	Protected	Permissive	Permissive	Overlap
Signal group	1	0	3	8	4	4
Auxiliary Signal Groups						4
Lead / Lag	Lead	-	Lead	-	-	-
Minimum Green [s]	7	0	7	7	7	7
Maximum Green [s]	30	0	30	30	30	30
Amber [s]	3.0	0.0	3.0	3.0	3.0	3.0
All red [s]	1.0	0.0	1.0	1.0	1.0	1.0
Split [s]	16	0	23	44	21	21
Vehicle Extension [s]	3.0	0.0	3.0	3.0	3.0	3.0
Walk [s]	7	0	0	7	7	7
Pedestrian Clearance [s]	10	0	0	10	10	10
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	2.0	2.0	2.0	2.0
I2, Clearance Lost Time [s]	2.0	0.0	2.0	2.0	2.0	2.0
Minimum Recall	No		No	No	No	No
Maximum Recall	No		No	No	No	No
Pedestrian Recall	No		No	No	No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	L	C	C	R
C, Cycle Length [s]	63	63	63	63	63	63
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	7	7	1	48	43	43
g / C, Green / Cycle	0.11	0.11	0.02	0.76	0.68	0.68
(v / s)_i Volume / Saturation Flow Rate	0.07	0.01	0.01	0.04	0.03	0.11
s, saturation flow rate [veh/h]	3459	1589	1781	1870	1870	1589
c, Capacity [veh/h]	385	177	41	1425	1263	1074
d1, Uniform Delay [s]	26.90	25.14	30.34	1.87	3.44	3.72
k, delay calibration	0.11	0.11	0.11	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	1.91	0.17	3.86	0.07	0.08	0.32
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.66	0.07	0.29	0.05	0.05	0.16
d, Delay for Lane Group [s/veh]	28.81	25.32	34.20	1.94	3.52	4.04
Lane Group LOS	C	C	C	A	A	A
Critical Lane Group	Yes	No	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	1.84	0.17	0.22	0.13	0.21	0.62
50th-Percentile Queue Length [ft/ln]	45.88	4.37	5.41	3.28	5.27	15.56
95th-Percentile Queue Length [veh/ln]	3.30	0.31	0.39	0.24	0.38	1.12
95th-Percentile Queue Length [ft/ln]	82.58	7.87	9.73	5.90	9.48	28.01

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	28.81	25.32	34.20	1.94	3.52	4.04
Movement LOS	C	C	C	A	A	A
d_A, Approach Delay [s/veh]	28.64		6.29		3.89	
Approach LOS	C		A		A	
d_I, Intersection Delay [s/veh]	15.43					
Intersection LOS	B					
Intersection V/C	0.231					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	21.46	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	2.221	0.000	0.000
Crosswalk LOS	B	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	31.50	31.50	31.50
l_b,int, Bicycle LOS Score for Intersection	4.132	4.279	4.519
Bicycle LOS	D	E	E

Sequence

Ring 1	1	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 2: Indian Canyon Dr (NS) at Pierson Blvd (EW)

Control Type:	All-way stop	Delay (sec / veh):	15.4
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.636

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Pierson Blvd			Pierson Blvd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			55.00			50.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Pierson Blvd			Pierson Blvd		
Base Volume Input [veh/h]	37	292	108	33	146	15	21	99	14	81	76	60
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	13	4	0	3	1	0	0	2	2	0	8	17
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	50	296	108	36	147	15	21	101	16	81	84	77
Peak Hour Factor	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	13	77	28	9	38	4	5	26	4	21	22	20
Total Analysis Volume [veh/h]	52	309	113	38	153	16	22	105	17	84	88	80
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	567	647	537	501	565	537
Degree of Utilization, x	0.64	0.17	0.39	0.25	0.03	0.47

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	4.48	0.63	1.81	1.00	0.09	2.48
95th-Percentile Queue Length [ft]	111.88	15.73	45.14	24.92	2.33	61.96
Approach Delay [s/veh]	17.10		13.86	11.94		15.48
Approach LOS	C		B	B		C
Intersection Delay [s/veh]	15.41					
Intersection LOS	C					

Intersection Level Of Service Report
Intersection 3: Indian Canyon Dr (NS) at Dillon Rd (EW)

Control Type:	All-way stop	Delay (sec / veh):	36.7
Analysis Method:	HCM 6th Edition	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.952

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	12	400	305	27	212	0	5	82	14	178	89	33
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	24	3	0	0	0	3	0	127	17	17
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	12	400	329	30	212	0	5	85	14	305	106	50
Peak Hour Factor	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	3	103	85	8	55	0	1	22	4	78	27	13
Total Analysis Volume [veh/h]	12	412	338	31	218	0	5	87	14	314	109	51
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	480	532	437	441	406	443	444	514
Degree of Utilization, x	0.88	0.64	0.57	0.00	0.23	0.03	0.95	0.10

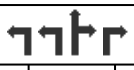
Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	9.58	4.43	3.45	0.00	0.86	0.10	11.33	0.33
95th-Percentile Queue Length [ft]	239.44	110.66	86.35	0.00	21.54	2.44	283.31	8.21
Approach Delay [s/veh]	33.85		21.24		13.76		54.59	
Approach LOS	D		C		B		F	
Intersection Delay [s/veh]	36.72							
Intersection LOS	E							

Intersection Level Of Service Report
Intersection 4: Indian Canyon Dr (NS) at 20th Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	16.3
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.396

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			20th Ave			20th Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	2	0	0
Pocket Length [ft]	157.00	100.00	100.00	82.00	100.00	100.00	75.00	100.00	100.00	190.00	100.00	100.00
Speed [mph]	55.00			55.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			20th Ave			20th Ave		
Base Volume Input [veh/h]	43	597	3	0	426	19	22	1	81	212	37	211
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	15	0	0	127	0	0	0	0	0	0	9
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	43	612	3	0	553	19	22	1	81	212	37	220
Peak Hour Factor	0.9370	0.9370	0.9370	0.9370	0.9370	0.9370	0.9370	0.9370	0.9370	0.9370	0.9370	0.9370
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	11	163	1	0	148	5	6	0	22	57	10	59
Total Analysis Volume [veh/h]	46	653	3	0	590	20	23	1	86	226	39	235
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	68
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	11	21	0	11	21	0	12	13	0	20	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	C	L	C	R	L	C	R
C, Cycle Length [s]	68	68	68	68	68	68	68	68	68	68	68	68
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	4	39	39	0	35	35	3	6	6	7	10	10
g / C, Green / Cycle	0.06	0.58	0.58	0.00	0.52	0.52	0.04	0.08	0.08	0.10	0.15	0.15
(v / s)_i Volume / Saturation Flow Rate	0.03	0.18	0.00	0.00	0.11	0.11	0.01	0.00	0.05	0.07	0.08	0.08
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1839	1781	1870	1589	3459	1659	1589
c, Capacity [veh/h]	110	2053	916	3	1838	949	69	158	134	356	247	237
d1, Uniform Delay [s]	30.83	7.50	6.13	0.00	9.00	9.01	31.97	28.62	30.24	29.40	27.00	27.00
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.49	0.41	0.01	0.00	0.27	0.53	2.84	0.02	4.98	1.89	2.04	2.12
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.42	0.32	0.00	0.00	0.22	0.22	0.34	0.01	0.64	0.64	0.57	0.57
d, Delay for Lane Group [s/veh]	33.32	7.91	6.14	0.00	9.28	9.54	34.81	28.63	35.22	31.28	29.04	29.12
Lane Group LOS	C	A	A	A	A	A	C	C	D	C	C	C
Critical Lane Group	No	Yes	No	No	No	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	0.73	1.70	0.01	0.00	1.22	1.34	0.41	0.02	1.50	1.80	2.16	2.08
50th-Percentile Queue Length [ft/ln]	18.14	42.51	0.34	0.00	30.58	33.49	10.28	0.38	37.50	44.97	54.03	51.92
95th-Percentile Queue Length [veh/ln]	1.31	3.06	0.02	0.00	2.20	2.41	0.74	0.03	2.70	3.24	3.89	3.74
95th-Percentile Queue Length [ft/ln]	32.66	76.51	0.61	0.00	55.05	60.28	18.51	0.68	67.51	80.95	97.25	93.45

Movement, Approach, & Intersection Results

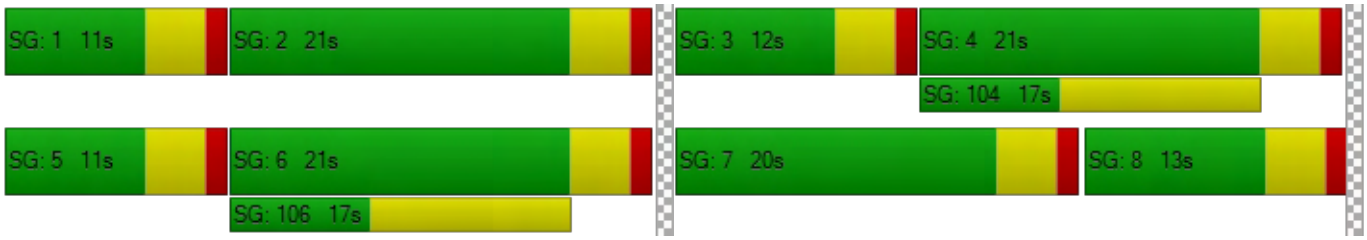
d_M, Delay for Movement [s/veh]	33.32	7.91	6.14	0.00	9.36	9.54	34.81	28.63	35.22	31.28	29.04	29.09
Movement LOS	C	A	A	A	A	A	C	C	D	C	C	C
d_A, Approach Delay [s/veh]	9.56			9.37			35.07			30.07		
Approach LOS	A			A			D			C		
d_I, Intersection Delay [s/veh]	16.30											
Intersection LOS	B											
Intersection V/C	0.396											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	23.89	23.89	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	2.891	2.168	0.000
Crosswalk LOS	F	C	B	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	500	500	265	500
d_b, Bicycle Delay [s]	19.13	19.13	25.60	19.13
l_b,int, Bicycle LOS Score for Intersection	2.139	1.895	1.741	2.385
Bicycle LOS	B	A	A	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 5: Indian Canyon Dr (NS) at Garnet Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	14.7
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.405

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Garnet Ave			Garnet Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	2	0	0	1	0	0
Pocket Length [ft]	132.00	100.00	100.00	223.00	100.00	100.00	166.00	100.00	100.00	75.00	100.00	100.00
Speed [mph]	55.00			55.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			Yes		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Garnet Ave			Garnet Ave		
Base Volume Input [veh/h]	45	829	15	142	368	108	154	16	94	9	6	11
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	3	0	0	17	50	12	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	45	832	15	142	385	158	166	16	94	9	6	11
Peak Hour Factor	0.9770	0.9770	0.9770	0.9770	0.9770	0.9770	0.9770	0.9770	0.9770	0.9770	0.9770	0.9770
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	12	213	4	36	99	40	42	4	24	2	2	3
Total Analysis Volume [veh/h]	46	852	15	145	394	162	170	16	96	9	6	11
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	66
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	8	7	4	0
Auxiliary Signal Groups									8			
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	7	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	30	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0
Split [s]	11	21	0	11	21	0	12	11	11	22	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	7	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	10	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No	No	No	No	
Maximum Recall	No	No		No	No		No	No	No	No	No	
Pedestrian Recall	No	No		No	No		No	No	No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	R	L	C	R	L	C
C, Cycle Length [s]	66	66	66	66	66	66	66	66	66	66	66
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	4	35	35	7	37	37	7	8	8	1	2
g / C, Green / Cycle	0.06	0.52	0.52	0.10	0.56	0.56	0.10	0.11	0.11	0.02	0.03
(v / s)_i Volume / Saturation Flow Rate	0.03	0.16	0.16	0.08	0.11	0.10	0.05	0.01	0.06	0.01	0.01
s, saturation flow rate [veh/h]	1781	3560	1853	1781	3560	1589	3459	1870	1589	1781	1678
c, Capacity [veh/h]	112	1855	966	186	2003	894	355	215	183	32	51
d1, Uniform Delay [s]	29.88	9.05	9.05	28.94	7.13	7.06	28.06	26.18	27.62	32.10	31.46
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.41	0.43	0.83	6.95	0.22	0.44	1.00	0.15	2.33	4.55	3.73
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.41	0.31	0.31	0.78	0.20	0.18	0.48	0.07	0.53	0.28	0.33
d, Delay for Lane Group [s/veh]	32.29	9.48	9.88	35.89	7.35	7.50	29.06	26.32	29.95	36.66	35.19
Lane Group LOS	C	A	A	D	A	A	C	C	C	D	D
Critical Lane Group	No	No	Yes	Yes	No	No	No	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	0.70	1.72	1.90	2.32	0.94	0.83	1.27	0.22	1.49	0.18	0.31
50th-Percentile Queue Length [ft/ln]	17.48	42.97	47.45	58.10	23.53	20.68	31.66	5.62	37.15	4.46	7.74
95th-Percentile Queue Length [veh/ln]	1.26	3.09	3.42	4.18	1.69	1.49	2.28	0.40	2.67	0.32	0.56
95th-Percentile Queue Length [ft/ln]	31.46	77.34	85.42	104.58	42.36	37.23	56.98	10.11	66.87	8.02	13.94

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	32.29	9.61	9.88	35.89	7.35	7.50	29.06	26.32	29.95	36.66	35.19	35.19
Movement LOS	C	A	A	D	A	A	C	C	C	D	D	D
d_A, Approach Delay [s/veh]	10.76			13.29			29.21			35.70		
Approach LOS	B			B			C			D		
d_I, Intersection Delay [s/veh]	14.72											
Intersection LOS	B											
Intersection V/C	0.405											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	22.92	22.92	22.92
l_p,int, Pedestrian LOS Score for Intersection	0.000	3.020	2.516	1.989
Crosswalk LOS	F	C	B	A
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	515	515	212	515
d_b, Bicycle Delay [s]	18.19	18.19	26.37	18.19
l_b,int, Bicycle LOS Score for Intersection	2.062	2.138	2.025	1.603
Bicycle LOS	B	B	B	A

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 6: I-10 WB Ramps (NS) at 20th Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	24.1
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.197

Intersection Setup

Name	I-10 WB Ramps		20th Ave		20th Ave	
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	1	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	90.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	No		No		No	

Volumes

Name	I-10 WB Ramps		20th Ave		20th Ave	
Base Volume Input [veh/h]	482	4	2	1	5	9
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	9	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	491	4	2	1	5	9
Peak Hour Factor	0.9250	0.9250	0.9250	0.9250	0.9250	0.9250
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	133	1	1	0	1	2
Total Analysis Volume [veh/h]	531	4	2	1	5	10
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	61
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-
Minimum Green [s]	7	0	7	0	7	7
Maximum Green [s]	30	0	30	0	30	30
Amber [s]	3.0	0.0	3.0	0.0	3.0	3.0
All red [s]	1.0	0.0	1.0	0.0	1.0	1.0
Split [s]	37	0	11	0	12	23
Vehicle Extension [s]	3.0	0.0	3.0	0.0	3.0	3.0
Walk [s]	7	0	7	0	0	7
Pedestrian Clearance [s]	10	0	10	0	0	10
Rest In Walk	No		No			No
I1, Start-Up Lost Time [s]	2.0	0.0	2.0	0.0	2.0	2.0
I2, Clearance Lost Time [s]	2.0	0.0	2.0	0.0	2.0	2.0
Minimum Recall	No		No		No	No
Maximum Recall	No		No		No	No
Pedestrian Recall	No		No		No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	C	L	C
C, Cycle Length [s]	61	61	61	61	61
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	12	12	36	1	41
g / C, Green / Cycle	0.20	0.20	0.59	0.01	0.67
(v / s)_i Volume / Saturation Flow Rate	0.15	0.00	0.00	0.00	0.00
s, saturation flow rate [veh/h]	3459	1589	1766	1781	3560
c, Capacity [veh/h]	708	325	1038	20	2366
d1, Uniform Delay [s]	22.85	19.39	5.21	29.97	3.45
k, delay calibration	0.11	0.11	0.50	0.11	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	1.62	0.01	0.01	6.22	0.00
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.75	0.01	0.00	0.25	0.00
d, Delay for Lane Group [s/veh]	24.47	19.40	5.21	36.20	3.46
Lane Group LOS	C	B	A	D	A
Critical Lane Group	Yes	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	3.49	0.04	0.01	0.10	0.02
50th-Percentile Queue Length [ft/ln]	87.28	1.10	0.34	2.62	0.38
95th-Percentile Queue Length [veh/ln]	6.28	0.08	0.02	0.19	0.03
95th-Percentile Queue Length [ft/ln]	157.11	1.98	0.62	4.71	0.68

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	24.47	19.40	5.21	5.21	36.20	3.46
Movement LOS	C	B	A	A	D	A
d_A, Approach Delay [s/veh]	24.43		5.21		14.37	
Approach LOS	C		A		B	
d_I, Intersection Delay [s/veh]	24.06					
Intersection LOS	C					
Intersection V/C	0.197					

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000
Crosswalk LOS	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	30.50	30.50	30.50
l_b,int, Bicycle LOS Score for Intersection	4.132	4.137	4.145
Bicycle LOS	D	D	D

Sequence

Ring 1	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 7: Little Morongo Rd (NS) at Pierson Blvd (EW)

Control Type:	All-way stop	Delay (sec / veh):	10.7
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.346

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			Pierson Blvd			Pierson Blvd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			45.00			50.00			50.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			Pierson Blvd			Pierson Blvd		
Base Volume Input [veh/h]	28	88	39	49	53	5	12	185	22	10	148	61
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	25	21	21	0	4	0	0	0	5	4	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	54	113	62	51	59	5	12	192	28	14	154	63
Peak Hour Factor	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	14	29	16	13	15	1	3	49	7	4	40	16
Total Analysis Volume [veh/h]	56	116	64	52	61	5	12	198	29	14	158	65
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	681	636	610	698	608	696
Degree of Utilization, x	0.35	0.19	0.34	0.04	0.28	0.09

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	1.55	0.68	1.53	0.13	1.16	0.31
95th-Percentile Queue Length [ft]	38.69	16.93	38.21	3.25	29.00	7.70
Approach Delay [s/veh]	11.06	9.95	11.24		10.25	
Approach LOS	B	A	B		B	
Intersection Delay [s/veh]	10.72					
Intersection LOS	B					

Intersection Level Of Service Report

Intersection 8: Little Morongo Rd (NS) at 14th Ave/2 Bunch Palms (EW)

Control Type:	All-way stop	Delay (sec / veh):	14.8
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.706

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			14th Ave			Two Bunch Palms Trail		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			30.00			45.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			14th Ave			Two Bunch Palms Trail		
Base Volume Input [veh/h]	14	167	203	45	108	3	0	11	4	114	9	69
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	67	61	0	13	0	0	0	0	12	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	14	237	268	46	123	3	0	11	4	128	9	70
Peak Hour Factor	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	4	63	71	12	33	1	0	3	1	34	2	19
Total Analysis Volume [veh/h]	15	251	284	49	130	3	0	12	4	136	10	74
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	778	665	583	528	639
Degree of Utilization, x	0.71	0.27	0.03	0.28	0.12

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	5.97	1.11	0.08	1.12	0.39
95th-Percentile Queue Length [ft]	149.29	27.76	2.12	27.98	9.76
Approach Delay [s/veh]	17.95	10.44	9.36	11.08	
Approach LOS	C	B	A	B	
Intersection Delay [s/veh]	14.83				
Intersection LOS	B				

Intersection Level Of Service Report
Intersection 9: Little Morongo Rd (NS) at 15th Ave (EW)

Control Type:	Two-way stop	Delay (sec / veh):	75.2
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.783

Intersection Setup

Name	Little Morongo Rd		Little Morongo Rd		15th Ave	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		No	

Volumes

Name	Little Morongo Rd		Little Morongo Rd		15th Ave	
Base Volume Input [veh/h]	384	0	0	226	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	52	25	0	285	128
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	384	52	25	226	285	128
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	101	14	7	59	75	34
Total Analysis Volume [veh/h]	404	55	26	238	300	135
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.02	0.00	0.78	0.22
d_M, Delay for Movement [s/veh]	0.00	0.00	8.35	0.00	75.23	71.60
Movement LOS	A	A	A	A	F	F
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.07	0.07	12.75	12.75
95th-Percentile Queue Length [ft/ln]	0.00	0.00	1.74	1.74	318.84	318.84
d_A, Approach Delay [s/veh]	0.00		0.82		74.10	
Approach LOS	A		A		F	
d_I, Intersection Delay [s/veh]	28.02					
Intersection LOS	F					

Intersection Level Of Service Report
Intersection 10: Little Morongo Rd (NS) at Dillon Rd (EW)

Control Type:	All-way stop	Delay (sec / veh):	23.0
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.836

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	1	0	0	1	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	205.00	100.00	100.00	146.00	100.00	100.00
Speed [mph]	30.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	0	1	2	71	1	84	199	183	0	0	132	102
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	124	0	161	30	0	0	0	0	22
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	1	2	198	1	248	237	190	0	0	137	128
Peak Hour Factor	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	1	56	0	71	68	54	0	0	39	36
Total Analysis Volume [veh/h]	0	1	2	226	1	283	270	217	0	0	156	146
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	497	610	490	527	505	531
Degree of Utilization, x	0.01	0.84	0.55	0.41	0.00	0.57

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.02	8.94	3.29	2.00	0.00	3.53
95th-Percentile Queue Length [ft]	0.46	223.38	82.16	49.95	0.00	88.28
Approach Delay [s/veh]	10.29	31.90	16.70		18.08	
Approach LOS	B	D	C		C	
Intersection Delay [s/veh]	22.96					
Intersection LOS	C					

Intersection Level Of Service Report
Intersection 11: Atlantic Ave (NS) at Dillon Rd (EW)

Control Type:	Two-way stop	Delay (sec / veh):	14.6
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.008

Intersection Setup

Name	Atlantic Ave		Dillon Rd		Dillon Rd	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		55.00		55.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		No	

Volumes

Name	Atlantic Ave		Dillon Rd		Dillon Rd	
Base Volume Input [veh/h]	3	2	3	276	250	1
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	124	22	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	3	2	3	411	282	1
Peak Hour Factor	0.9290	0.9290	0.9290	0.9290	0.9290	0.9290
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	1	1	111	76	0
Total Analysis Volume [veh/h]	3	2	3	442	304	1
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane	No		
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.00	0.00	0.00	0.00
d_M, Delay for Movement [s/veh]	14.64	9.98	7.87	0.00	0.00	0.00
Movement LOS	B	A	A	A	A	A
95th-Percentile Queue Length [veh/ln]	0.03	0.03	0.01	0.01	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.81	0.81	0.18	0.18	0.00	0.00
d_A, Approach Delay [s/veh]	12.78		0.05		0.00	
Approach LOS	B		A		A	
d_I, Intersection Delay [s/veh]	0.12					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 12: Palm Dr (NS) at Hacienda Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	21.6
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.666

Intersection Setup

Name	Palm Dr			Palm Dr			Hacienda Ave			Hacienda Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0
Pocket Length [ft]	110.00	100.00	100.00	90.00	100.00	100.00	70.00	100.00	100.00	80.00	100.00	100.00
Speed [mph]	35.00			35.00			45.00			40.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Hacienda Ave			Hacienda Ave		
Base Volume Input [veh/h]	84	880	69	112	541	26	40	101	76	170	126	97
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	8	21	12	0	4	0	0	0	2	2	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	94	919	82	114	556	27	41	103	80	175	129	99
Peak Hour Factor	0.9710	0.9710	0.9710	0.9710	0.9710	0.9710	0.9710	0.9710	0.9710	0.9710	0.9710	0.9710
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	24	237	21	29	143	7	11	27	21	45	33	25
Total Analysis Volume [veh/h]	97	946	84	117	573	28	42	106	82	180	133	102
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	65
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	11	21	0	11	21	0	11	21	0	12	22	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	C	L	C	C	L	C	R
C, Cycle Length [s]	65	65	65	65	65	65	65	65	65	65	65	65
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	6	28	28	6	28	28	4	7	7	8	11	11
g / C, Green / Cycle	0.09	0.43	0.43	0.10	0.44	0.44	0.06	0.10	0.10	0.12	0.17	0.17
(v / s)_i Volume / Saturation Flow Rate	0.05	0.28	0.28	0.07	0.16	0.16	0.02	0.05	0.06	0.10	0.07	0.06
s, saturation flow rate [veh/h]	1781	1870	1817	1781	1870	1839	1781	1870	1613	1781	1870	1589
c, Capacity [veh/h]	162	804	781	172	814	801	106	196	169	221	316	269
d1, Uniform Delay [s]	28.53	14.72	14.73	28.52	12.42	12.42	29.56	27.59	27.72	27.87	24.26	24.08
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	3.52	4.05	4.17	4.69	1.30	1.33	2.37	1.93	2.65	7.19	0.89	0.88
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.60	0.65	0.65	0.68	0.37	0.37	0.40	0.50	0.54	0.82	0.42	0.38
d, Delay for Lane Group [s/veh]	32.04	18.78	18.90	33.21	13.72	13.75	31.93	29.52	30.36	35.06	25.15	24.97
Lane Group LOS	C	B	B	C	B	B	C	C	C	D	C	C
Critical Lane Group	No	No	Yes	Yes	No	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	1.53	6.11	5.97	1.88	2.86	2.82	0.65	1.40	1.34	2.95	1.75	1.34
50th-Percentile Queue Length [ft/ln]	38.20	152.82	149.28	47.08	71.39	70.44	16.24	34.96	33.57	73.70	43.80	33.50
95th-Percentile Queue Length [veh/ln]	2.75	10.17	9.98	3.39	5.14	5.07	1.17	2.52	2.42	5.31	3.15	2.41
95th-Percentile Queue Length [ft/ln]	68.77	254.19	249.47	84.75	128.50	126.80	29.22	62.92	60.43	132.66	78.85	60.31

Movement, Approach, & Intersection Results

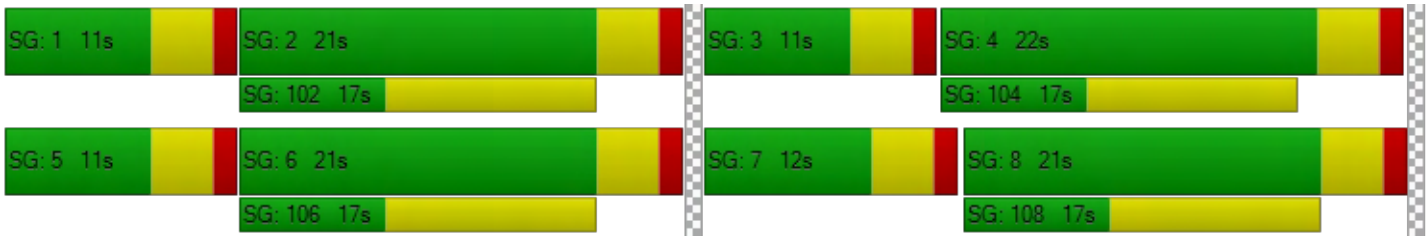
d_M, Delay for Movement [s/veh]	32.04	18.83	18.90	33.21	13.74	13.75	31.93	29.59	30.36	35.06	25.15	24.97
Movement LOS	C	B	B	C	B	B	C	C	C	D	C	C
d_A, Approach Delay [s/veh]	19.98			16.91			30.29			29.41		
Approach LOS	B			B			C			C		
d_I, Intersection Delay [s/veh]	21.62											
Intersection LOS	C											
Intersection V/C	0.666											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	22.43	22.43	22.43	22.43
l_p,int, Pedestrian LOS Score for Intersection	2.728	2.693	2.292	2.470
Crosswalk LOS	B	B	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	523	523	523	554
d_b, Bicycle Delay [s]	17.72	17.72	17.72	16.99
l_b,int, Bicycle LOS Score for Intersection	2.489	2.152	1.749	2.244
Bicycle LOS	B	B	A	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 13: Palm Dr (NS) at Ironwood Dr (EW)

Control Type:	Signalized	Delay (sec / veh):	14.1
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.530

Intersection Setup

Name	Palm Dr			Palm Dr			Ironwood Dr			Ironwood Dr		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0
Pocket Length [ft]	117.00	100.00	100.00	100.00	100.00	100.00	58.00	100.00	100.00	60.00	100.00	100.00
Speed [mph]	35.00			35.00			35.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Ironwood Dr			Ironwood Dr		
Base Volume Input [veh/h]	48	1014	76	27	705	37	54	36	20	49	29	46
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	8	41	12	0	8	0	0	0	2	2	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	56	1055	88	27	713	37	54	36	22	51	29	46
Peak Hour Factor	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	15	275	23	7	186	10	14	9	6	13	8	12
Total Analysis Volume [veh/h]	58	1100	92	28	743	39	56	38	23	53	30	48
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	75
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	11	21	0	11	21	0	11	25	0	18	32	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	C	L	C	L	C
C, Cycle Length [s]	75	75	75	75	75	75	75	75	75	75
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	5	45	45	3	44	44	5	6	5	6
g / C, Green / Cycle	0.07	0.60	0.60	0.04	0.58	0.58	0.07	0.08	0.06	0.08
(v / s)_i Volume / Saturation Flow Rate	0.03	0.32	0.32	0.02	0.21	0.21	0.03	0.03	0.03	0.05
s, saturation flow rate [veh/h]	1781	1870	1820	1781	1870	1837	1781	1753	1781	1687
c, Capacity [veh/h]	120	1125	1095	77	1080	1061	118	137	114	129
d1, Uniform Delay [s]	33.83	8.82	8.83	34.99	8.51	8.51	33.88	33.10	33.95	33.63
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	3.01	1.84	1.89	2.87	0.96	0.97	2.96	2.24	2.90	4.48
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.48	0.54	0.54	0.36	0.37	0.37	0.48	0.44	0.46	0.60
d, Delay for Lane Group [s/veh]	36.84	10.65	10.72	37.86	9.47	9.49	36.84	35.34	36.85	38.12
Lane Group LOS	D	B	B	D	A	A	D	D	D	D
Critical Lane Group	No	No	Yes	Yes	No	No	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	1.08	5.17	5.06	0.54	3.12	3.07	1.04	1.11	0.99	1.48
50th-Percentile Queue Length [ft/ln]	27.04	129.24	126.58	13.53	77.91	76.72	26.12	27.63	24.75	37.09
95th-Percentile Queue Length [veh/ln]	1.95	8.90	8.75	0.97	5.61	5.52	1.88	1.99	1.78	2.67
95th-Percentile Queue Length [ft/ln]	48.67	222.46	218.84	24.36	140.23	138.10	47.01	49.73	44.54	66.76

Movement, Approach, & Intersection Results

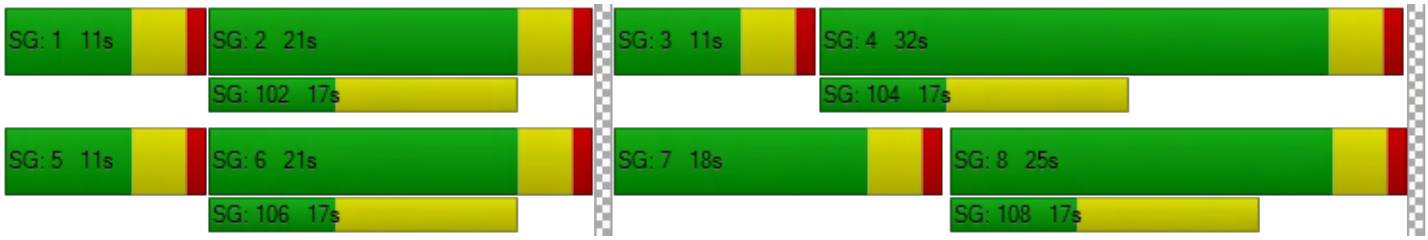
d_M, Delay for Movement [s/veh]	36.84	10.69	10.72	37.86	9.48	9.49	36.84	35.34	35.34	36.85	38.12	38.12
Movement LOS	D	B	B	D	A	A	D	D	D	D	D	D
d_A, Approach Delay [s/veh]	11.90			10.46			36.06			37.60		
Approach LOS	B			B			D			D		
d_I, Intersection Delay [s/veh]	14.08											
Intersection LOS	B											
Intersection V/C	0.530											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	27.31	27.31	27.31	27.31
l_p,int, Pedestrian LOS Score for Intersection	2.835	2.748	2.023	2.040
Crosswalk LOS	C	B	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	453	453	560	747
d_b, Bicycle Delay [s]	22.43	22.43	19.44	14.73
l_b,int, Bicycle LOS Score for Intersection	2.591	2.228	1.753	1.776
Bicycle LOS	B	B	A	A

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 14: Palm Dr (NS) at Two Bunch Palms Trail (EW)

Control Type:	Signalized	Delay (sec / veh):	30.3
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.862

Intersection Setup

Name	Palm Dr			Palm Dr			Two Bunch Palms Trail			Two Bunch Palms Trail		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	1
Pocket Length [ft]	96.00	100.00	100.00	101.00	100.00	100.00	95.00	100.00	100.00	70.00	100.00	130.00
Speed [mph]	40.00			35.00			40.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Two Bunch Palms Trail			Two Bunch Palms Trail		
Base Volume Input [veh/h]	180	1009	150	103	656	21	98	161	228	248	129	93
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	21	0	0	4	8	40	21	0	0	4	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	184	1050	153	105	673	29	140	185	233	253	136	95
Peak Hour Factor	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	48	271	40	27	174	7	36	48	60	65	35	25
Total Analysis Volume [veh/h]	190	1086	158	109	696	30	145	191	241	262	141	98
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	70
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	13	23	0	11	21	0	15	21	0	15	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	70	70	70	70	70	70	70	70	70	70	70	70
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	9	24	24	6	21	21	7	13	13	11	17	17
g / C, Green / Cycle	0.13	0.34	0.34	0.09	0.30	0.30	0.10	0.18	0.18	0.16	0.24	0.24
(v / s)_i Volume / Saturation Flow Rate	0.11	0.31	0.10	0.06	0.20	0.02	0.08	0.10	0.15	0.15	0.08	0.06
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	230	1217	543	160	1076	480	187	343	291	281	441	375
d1, Uniform Delay [s]	29.81	21.90	16.90	31.01	21.27	17.44	30.63	26.10	27.62	29.23	22.19	21.86
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	7.30	10.14	1.35	5.07	3.01	0.25	6.70	1.42	5.95	13.41	0.41	0.37
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.83	0.89	0.29	0.68	0.65	0.06	0.77	0.56	0.83	0.93	0.32	0.26
d, Delay for Lane Group [s/veh]	37.12	32.04	18.25	36.09	24.28	17.69	37.33	27.52	33.57	42.63	22.60	22.23
Lane Group LOS	D	C	B	D	C	B	D	C	C	D	C	C
Critical Lane Group	No	Yes	No	Yes	No	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	3.37	9.11	1.86	1.92	4.98	0.35	2.58	2.81	4.05	5.13	1.85	1.27
50th-Percentile Queue Length [ft/ln]	84.16	227.77	46.62	48.11	124.51	8.84	64.41	70.28	101.36	128.30	46.13	31.68
95th-Percentile Queue Length [veh/ln]	6.06	14.06	3.36	3.46	8.64	0.64	4.64	5.06	7.30	8.85	3.32	2.28
95th-Percentile Queue Length [ft/ln]	151.48	351.52	83.92	86.60	216.00	15.91	115.95	126.50	182.46	221.18	83.04	57.02

Movement, Approach, & Intersection Results

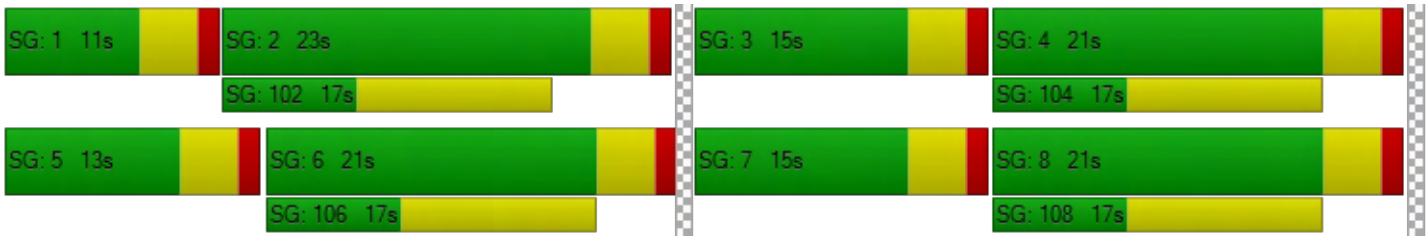
d_M, Delay for Movement [s/veh]	37.12	32.04	18.25	36.09	24.28	17.69	37.33	27.52	33.57	42.63	22.60	22.23
Movement LOS	D	C	B	D	C	B	D	C	C	D	C	C
d_A, Approach Delay [s/veh]	31.20			25.58			32.51			33.01		
Approach LOS	C			C			C			C		
d_I, Intersection Delay [s/veh]	30.29											
Intersection LOS	C											
Intersection V/C	0.862											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	24.86	24.86	24.86	24.86
l_p,int, Pedestrian LOS Score for Intersection	3.010	2.849	2.530	2.390
Crosswalk LOS	C	C	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	543	486	486	486
d_b, Bicycle Delay [s]	18.58	20.06	20.06	20.06
l_b,int, Bicycle LOS Score for Intersection	2.743	2.248	2.512	2.386
Bicycle LOS	B	B	B	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 15: Palm Dr (NS) at Camino Campanero (EW)

Control Type:	Signalized	Delay (sec / veh):	11.2
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.717

Intersection Setup

Name	Palm Dr		Palm Dr		Camino Campanero	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	1	0	0	1
Pocket Length [ft]	100.00	100.00	80.00	100.00	100.00	87.00
Speed [mph]	45.00		40.00		25.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		No		Yes	

Volumes

Name	Palm Dr		Palm Dr		Camino Campanero	
Base Volume Input [veh/h]	1268	34	138	884	17	167
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	21	12	0	4	2	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1289	46	138	888	19	167
Peak Hour Factor	0.9490	0.9490	0.9490	0.9490	0.9490	0.9490
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	340	12	36	234	5	44
Total Analysis Volume [veh/h]	1358	48	145	936	20	176
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Permissive	Permissive	Protected	Permissive	Split	Split
Signal group	2	0	1	6	7	0
Auxiliary Signal Groups						
Lead / Lag	-	-	Lead	-	Lead	-
Minimum Green [s]	7	0	7	7	7	0
Maximum Green [s]	30	0	30	30	30	0
Amber [s]	3.0	0.0	3.0	3.0	3.0	0.0
All red [s]	1.0	0.0	1.0	1.0	1.0	0.0
Split [s]	21	0	18	39	21	0
Vehicle Extension [s]	3.0	0.0	3.0	3.0	3.0	0.0
Walk [s]	7	0	0	7	7	0
Pedestrian Clearance [s]	10	0	0	10	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	0.0	2.0	2.0	2.0	0.0
Minimum Recall	No		No	No	No	
Maximum Recall	No		No	No	No	
Pedestrian Recall	No		No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	R	L	C	L	R
C, Cycle Length [s]	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	33	33	6	44	8	8
g / C, Green / Cycle	0.55	0.55	0.11	0.73	0.14	0.14
(v / s)_i Volume / Saturation Flow Rate	0.38	0.03	0.08	0.26	0.01	0.11
s, saturation flow rate [veh/h]	3560	1589	1781	3560	1781	1589
c, Capacity [veh/h]	1960	875	193	2581	253	226
d1, Uniform Delay [s]	9.83	6.27	26.05	3.09	22.40	24.90
k, delay calibration	0.50	0.50	0.11	0.50	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.04	0.12	5.85	0.40	0.13	5.76
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.69	0.05	0.75	0.36	0.08	0.78
d, Delay for Lane Group [s/veh]	11.87	6.39	31.90	3.48	22.53	30.66
Lane Group LOS	B	A	C	A	C	C
Critical Lane Group	Yes	No	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	4.85	0.22	2.14	0.93	0.25	2.67
50th-Percentile Queue Length [ft/ln]	121.26	5.57	53.45	23.22	6.14	66.81
95th-Percentile Queue Length [veh/ln]	8.46	0.40	3.85	1.67	0.44	4.81
95th-Percentile Queue Length [ft/ln]	211.55	10.02	96.21	41.79	11.05	120.25

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	11.87	6.39	31.90	3.48	22.53	30.66
Movement LOS	B	A	C	A	C	C
d_A, Approach Delay [s/veh]	11.69		7.29		29.83	
Approach LOS	B		A		C	
d_I, Intersection Delay [s/veh]	11.24					
Intersection LOS	B					
Intersection V/C	0.717					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	0.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	20.01	0.00	20.01
l_p,int, Pedestrian LOS Score for Intersection	2.968	0.000	2.023
Crosswalk LOS	C	F	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	30.00	30.00	30.00
l_b,int, Bicycle LOS Score for Intersection	5.292	5.024	4.132
Bicycle LOS	F	F	D

Sequence

Ring 1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 16: Palm Dr (NS) at Camino Aventura (EW)

Control Type:	Two-way stop	Delay (sec / veh):	28.3
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.149

Intersection Setup

Name	Palm Dr		Palm Dr		Camino Aventura	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	1	0	0	0
Pocket Length [ft]	100.00	100.00	200.00	100.00	100.00	100.00
Speed [mph]	45.00		45.00		40.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		Yes	

Volumes

Name	Palm Dr		Palm Dr		Camino Aventura	
Base Volume Input [veh/h]	1279	90	61	827	24	61
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	33	12	0	6	2	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1312	102	61	833	26	61
Peak Hour Factor	0.9680	0.9680	0.9680	0.9680	0.9680	0.9680
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	339	26	16	215	7	16
Total Analysis Volume [veh/h]	1355	105	63	861	27	63
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			Yes
Number of Storage Spaces in Median	0	0	2

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.14	0.01	0.15	0.16
d_M, Delay for Movement [s/veh]	0.00	0.00	14.09	0.00	28.32	15.84
Movement LOS	A	A	B	A	D	C
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.47	0.00	0.51	0.56
95th-Percentile Queue Length [ft/ln]	0.00	0.00	11.82	0.00	12.80	14.04
d_A, Approach Delay [s/veh]	0.00		0.96		19.58	
Approach LOS	A		A		C	
d_I, Intersection Delay [s/veh]	1.07					
Intersection LOS	D					

Intersection Level Of Service Report
Intersection 17: Palm Dr (NS) at Dillon Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	25.8
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.798

Intersection Setup

Name	Palm Dr			Palm Dr			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	1	1	0	1
Pocket Length [ft]	150.00	100.00	100.00	150.00	100.00	100.00	155.00	100.00	155.00	140.00	100.00	140.00
Speed [mph]	60.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	180	1196	248	82	671	73	113	169	111	156	107	103
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	9	0	0	0	0	8	45	29	50	0	5	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	189	1196	248	82	671	81	158	198	161	156	112	103
Peak Hour Factor	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	51	320	66	22	179	22	42	53	43	42	30	28
Total Analysis Volume [veh/h]	202	1279	265	88	718	87	169	212	172	167	120	110
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	70
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	14	24	0	11	21	0	14	21	0	14	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	70	70	70	70	70	70	70	70	70	70	70	70
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	10	30	30	6	26	26	8	10	10	8	10	10
g / C, Green / Cycle	0.14	0.42	0.42	0.08	0.37	0.37	0.12	0.15	0.15	0.12	0.15	0.15
(v / s)_i Volume / Saturation Flow Rate	0.11	0.36	0.17	0.05	0.20	0.05	0.09	0.11	0.11	0.09	0.06	0.07
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	247	1503	671	149	1308	584	213	277	235	211	275	233
d1, Uniform Delay [s]	29.41	18.31	14.08	31.03	17.61	14.87	30.09	28.76	28.59	30.13	27.32	27.47
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	6.61	6.26	1.74	3.69	1.66	0.54	6.57	4.40	4.33	6.58	1.09	1.47
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.82	0.85	0.39	0.59	0.55	0.15	0.79	0.77	0.73	0.79	0.44	0.47
d, Delay for Lane Group [s/veh]	36.02	24.56	15.82	34.71	19.27	15.41	36.65	33.16	32.92	36.71	28.41	28.94
Lane Group LOS	D	C	B	C	B	B	D	C	C	D	C	C
Critical Lane Group	No	Yes	No	Yes	No	No	No	Yes	No	Yes	No	No
50th-Percentile Queue Length [veh/ln]	3.31	8.26	2.54	1.43	4.02	0.85	2.84	3.35	2.71	2.81	1.70	1.59
50th-Percentile Queue Length [ft/ln]	82.81	206.52	63.52	35.86	100.44	21.20	71.10	83.70	67.76	70.32	42.51	39.64
95th-Percentile Queue Length [veh/ln]	5.96	12.97	4.57	2.58	7.23	1.53	5.12	6.03	4.88	5.06	3.06	2.85
95th-Percentile Queue Length [ft/ln]	149.05	324.37	114.33	64.54	180.78	38.16	127.97	150.66	121.97	126.58	76.51	71.36

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	36.02	24.56	15.82	34.71	19.27	15.41	36.65	33.16	32.92	36.71	28.41	28.94
Movement LOS	D	C	B	C	B	B	D	C	C	D	C	C
d_A, Approach Delay [s/veh]	24.56			20.42			34.15			32.05		
Approach LOS	C			C			C			C		
d_I, Intersection Delay [s/veh]	25.84											
Intersection LOS	C											
Intersection V/C	0.798											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	24.86	24.86	24.86	24.86
l_p,int, Pedestrian LOS Score for Intersection	3.361	3.206	2.547	2.547
Crosswalk LOS	C	C	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	571	486	486	486
d_b, Bicycle Delay [s]	17.86	20.06	20.06	20.06
l_b,int, Bicycle LOS Score for Intersection	3.000	2.296	2.472	2.215
Bicycle LOS	C	B	B	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 18: Palm Dr (NS) at Varner Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	6.8
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.642

Intersection Setup

Name	Palm Dr			Palm Dr			Varner Rd			Varner Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	0	0	0	0	0	0
Pocket Length [ft]	173.00	100.00	100.00	195.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	60.00			60.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Varner Rd			Varner Rd		
Base Volume Input [veh/h]	1	1618	36	20	894	0	0	1	1	35	1	29
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	6	0	17	33	0	0	0	0	0	0	3
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1	1656	37	37	945	0	0	1	1	36	1	33
Peak Hour Factor	0.9320	0.9320	0.9320	0.9320	0.9320	0.9320	0.9320	0.9320	0.9320	0.9320	0.9320	0.9320
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	444	10	10	253	0	0	0	0	10	0	9
Total Analysis Volume [veh/h]	1	1777	40	40	1014	0	0	1	1	39	1	35
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	105
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	5	2	0	1	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	-	-	-	-	-	-
Minimum Green [s]	7	7	0	7	7	0	0	7	0	0	7	0
Maximum Green [s]	30	30	0	30	30	0	0	30	0	0	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	12	73	0	11	72	0	0	21	0	0	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall	No	No		No	No			No			No	
Maximum Recall	No	No		No	No			No			No	
Pedestrian Recall	No	No		No	No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	C	C
C, Cycle Length [s]	105	105	105	105	105	105	105	105
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	0	82	82	5	87	87	6	6
g / C, Green / Cycle	0.00	0.78	0.78	0.05	0.82	0.82	0.06	0.06
(v / s)_i Volume / Saturation Flow Rate	0.00	0.50	0.03	0.02	0.28	0.00	0.00	0.05
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1198	1590
c, Capacity [veh/h]	4	2776	1239	83	2932	1309	106	147
d1, Uniform Delay [s]	52.27	5.09	2.61	48.84	2.29	0.00	46.47	48.57
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	24.31	1.15	0.05	4.34	0.32	0.00	0.07	2.72
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.23	0.64	0.03	0.48	0.35	0.00	0.02	0.51
d, Delay for Lane Group [s/veh]	76.58	6.23	2.66	53.18	2.61	0.00	46.54	51.29
Lane Group LOS	E	A	A	D	A	A	D	D
Critical Lane Group	No	Yes	No	Yes	No	No	No	Yes
50th-Percentile Queue Length [veh/ln]	0.05	4.28	0.11	1.06	0.76	0.00	0.05	1.95
50th-Percentile Queue Length [ft/ln]	1.36	106.97	2.64	26.60	18.93	0.00	1.22	48.78
95th-Percentile Queue Length [veh/ln]	0.10	7.67	0.19	1.92	1.36	0.00	0.09	3.51
95th-Percentile Queue Length [ft/ln]	2.46	191.79	4.74	47.89	34.07	0.00	2.20	87.80

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	76.58	6.23	2.66	53.18	2.61	0.00	46.54	46.54	46.54	51.29	51.29	51.29
Movement LOS	E	A	A	D	A	A	D	D	D	D	D	D
d_A, Approach Delay [s/veh]	6.19			4.53			46.54			51.29		
Approach LOS	A			A			D			D		
d_I, Intersection Delay [s/veh]	6.77											
Intersection LOS	A											
Intersection V/C	0.642											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	42.08	42.08	42.08
l_p,int, Pedestrian LOS Score for Intersection	0.000	3.400	1.726	1.862
Crosswalk LOS	F	C	A	A
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	1314	1295	324	324
d_b, Bicycle Delay [s]	6.17	6.52	36.88	36.88
l_b,int, Bicycle LOS Score for Intersection	3.059	2.429	1.563	1.683
Bicycle LOS	C	B	A	A

Sequence

Ring 1	1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



DHS 109

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Scenario 2 Existing Plus Project
5/17/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
3	Indian Canyon Dr (NS) at Dillon Rd (EW)	Signalized	HCM 6th Edition	WB Left	0.865	18.1	B
9	Little Morongo Rd (NS) at 15th Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.534	5.0	A
14	Palm Dr (NS) at Two Bunch Palms Trail (EW)	Signalized	HCM 6th Edition	NB Left	1.003	33.5	C
17	Palm Dr (NS) at Dillon Rd (EW)	Signalized	HCM 6th Edition	NB Left	1.015	36.9	D

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 3: Indian Canyon Dr (NS) at Dillon Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	18.1
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.865

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			No			No			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	16	193	119	17	410	16	4	78	50	346	72	18
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	142	18	0	0	0	18	0	24	3	2
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	16	193	261	35	410	16	4	96	50	370	75	20
Peak Hour Factor	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	4	54	73	10	114	4	1	27	14	103	21	6
Total Analysis Volume [veh/h]	18	215	291	39	457	18	4	107	56	412	84	22
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-
Minimum Green [s]	0	7	0	0	7	0	0	7	0	0	7	0
Maximum Green [s]	0	30	0	0	30	0	0	30	0	0	30	0
Amber [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	0	30	0	0	30	0	0	30	0	0	30	0
Vehicle Extension [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall		No			No			No			No	
Maximum Recall		No			No			No			No	
Pedestrian Recall		No			No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	L	C	L	C	L	C
C, Cycle Length [s]	60	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	0.00	2.00	0.00	2.00	0.00	2.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	26	26	26	26	26	26	26	26
g / C, Green / Cycle	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
(v / s)_i Volume / Saturation Flow Rate	0.02	0.30	0.04	0.26	0.00	0.09	0.34	0.06
s, saturation flow rate [veh/h]	919	1698	893	1858	1288	1763	1223	1804
c, Capacity [veh/h]	310	736	265	805	593	764	542	782
d1, Uniform Delay [s]	19.32	13.77	22.09	12.98	12.07	10.65	19.46	10.27
k, delay calibration	0.50	0.50	0.50	0.50	0.11	0.11	0.21	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.36	5.19	1.17	3.16	0.00	0.14	4.32	0.08
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.06	0.69	0.15	0.59	0.01	0.21	0.76	0.14
d, Delay for Lane Group [s/veh]	19.68	18.95	23.26	16.14	12.08	10.79	23.78	10.35
Lane Group LOS	B	B	C	B	B	B	C	B
Critical Lane Group	No	Yes	No	No	No	No	Yes	No
50th-Percentile Queue Length [veh/ln]	0.20	4.98	0.49	4.18	0.03	1.01	4.95	0.63
50th-Percentile Queue Length [ft/ln]	5.01	124.56	12.33	104.48	0.67	25.16	123.68	15.74
95th-Percentile Queue Length [veh/ln]	0.36	8.64	0.89	7.52	0.05	1.81	8.59	1.13
95th-Percentile Queue Length [ft/ln]	9.02	216.08	22.19	188.06	1.21	45.29	214.87	28.34

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	19.68	18.95	18.95	23.26	16.14	16.14	12.08	10.79	10.79	23.78	10.35	10.35
Movement LOS	B	B	B	C	B	B	B	B	B	C	B	B
d_A, Approach Delay [s/veh]	18.98			16.68			10.82			21.03		
Approach LOS	B			B			B			C		
d_I, Intersection Delay [s/veh]	18.12											
Intersection LOS	B											
Intersection V/C	0.865											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000	0.000
Crosswalk LOS	F	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	867	867	867	867
d_b, Bicycle Delay [s]	9.63	9.63	9.63	9.63
l_b,int, Bicycle LOS Score for Intersection	2.424	2.408	1.835	2.414
Bicycle LOS	B	B	A	B

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 9: Little Morongo Rd (NS) at 15th Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	5.0
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.534

Intersection Setup

Name	Little Morongo Rd		Little Morongo Rd		15th Ave	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	No		No		No	

Volumes

Name	Little Morongo Rd		Little Morongo Rd		15th Ave	
Base Volume Input [veh/h]	205	0	0	413	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	316	143	0	50	19
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	205	316	143	413	50	19
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	54	83	38	109	13	5
Total Analysis Volume [veh/h]	216	333	151	435	53	20
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	2	0	0	6	7	0
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-
Minimum Green [s]	7	0	0	7	7	0
Maximum Green [s]	30	0	0	30	30	0
Amber [s]	3.0	0.0	0.0	3.0	3.0	0.0
All red [s]	1.0	0.0	0.0	1.0	1.0	0.0
Split [s]	48	0	0	48	12	0
Vehicle Extension [s]	3.0	0.0	0.0	3.0	3.0	0.0
Walk [s]	7	0	0	7	7	0
Pedestrian Clearance [s]	10	0	0	10	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
Minimum Recall	No			No	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	C	C
C, Cycle Length [s]	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	2.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00
g_i, Effective Green Time [s]	47	47	5
g / C, Green / Cycle	0.78	0.78	0.08
(v / s)_i Volume / Saturation Flow Rate	0.33	0.42	0.04
s, saturation flow rate [veh/h]	1689	1395	1724
c, Capacity [veh/h]	1322	1168	145
d1, Uniform Delay [s]	2.10	2.23	26.31
k, delay calibration	0.50	0.50	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00
d2, Incremental Delay [s]	0.96	1.54	2.71
d3, Initial Queue Delay [s]	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.42	0.50	0.50
d, Delay for Lane Group [s/veh]	3.06	3.77	29.02
Lane Group LOS	A	A	C
Critical Lane Group	No	Yes	Yes
50th-Percentile Queue Length [veh/ln]	0.94	1.34	1.05
50th-Percentile Queue Length [ft/ln]	23.51	33.39	26.36
95th-Percentile Queue Length [veh/ln]	1.69	2.40	1.90
95th-Percentile Queue Length [ft/ln]	42.32	60.11	47.45

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	3.06	3.06	3.77	3.77	29.02	29.02
Movement LOS	A	A	A	A	C	C
d_A, Approach Delay [s/veh]	3.06		3.77		29.02	
Approach LOS	A		A		C	
d_I, Intersection Delay [s/veh]	4.97					
Intersection LOS	A					
Intersection V/C	0.534					

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000
Crosswalk LOS	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	30.00	30.00	30.00
l_b,int, Bicycle LOS Score for Intersection	5.038	5.099	4.253
Bicycle LOS	F	F	E

Sequence

Ring 1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 14: Palm Dr (NS) at Two Bunch Palms Trail (EW)

Control Type:	Signalized	Delay (sec / veh):	33.5
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.003

Intersection Setup

Name	Palm Dr			Palm Dr			Two Bunch Palms Trail			Two Bunch Palms Trail		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	1
Pocket Length [ft]	96.00	100.00	100.00	101.00	100.00	100.00	95.00	100.00	100.00	70.00	100.00	130.00
Speed [mph]	40.00			35.00			40.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Two Bunch Palms Trail			Two Bunch Palms Trail		
Base Volume Input [veh/h]	181	594	188	64	885	24	40	182	373	259	139	45
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	3	0	0	23	46	6	3	0	0	23	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	185	609	192	65	926	70	47	189	380	264	165	46
Peak Hour Factor	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	54	178	56	19	271	20	14	55	111	77	48	13
Total Analysis Volume [veh/h]	217	713	225	76	1084	82	55	221	445	309	193	54
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	80
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	8	7	4	0
Auxiliary Signal Groups									5,8			
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	7	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	30	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0
Split [s]	15	25	0	15	25	0	11	21	21	19	29	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	7	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	10	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No	No	No	No	
Maximum Recall	No	No		No	No		No	No	No	No	No	
Pedestrian Recall	No	No		No	No		No	No	No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	80	80	80	80	80	80	80	80	80	80	80	80
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	0.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	11	31	31	6	26	26	5	12	27	15	22	22
g / C, Green / Cycle	0.14	0.39	0.39	0.07	0.32	0.32	0.06	0.15	0.34	0.19	0.28	0.28
(v / s)_i Volume / Saturation Flow Rate	0.12	0.20	0.14	0.04	0.30	0.05	0.03	0.12	0.28	0.17	0.10	0.03
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	246	1379	615	130	1146	512	113	286	542	334	518	441
d1, Uniform Delay [s]	33.93	18.83	17.55	36.02	26.51	19.44	36.31	32.64	24.21	32.02	23.37	21.69
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.27	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	10.00	1.39	1.68	4.15	16.37	0.67	3.23	4.45	7.46	10.79	0.44	0.12
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.88	0.52	0.37	0.59	0.95	0.16	0.49	0.77	0.82	0.92	0.37	0.12
d, Delay for Lane Group [s/veh]	43.94	20.22	19.22	40.17	42.88	20.11	39.54	37.09	31.67	42.81	23.81	21.82
Lane Group LOS	D	C	B	D	D	C	D	D	C	D	C	C
Critical Lane Group	Yes	No	No	No	Yes	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	4.60	4.85	2.98	1.54	11.93	1.13	1.10	4.24	8.13	6.60	2.85	0.74
50th-Percentile Queue Length [ft/ln]	114.99	121.23	74.53	38.55	298.32	28.25	27.39	106.07	203.32	164.93	71.35	18.50
95th-Percentile Queue Length [veh/ln]	8.12	8.46	5.37	2.78	17.60	2.03	1.97	7.62	12.81	10.81	5.14	1.33
95th-Percentile Queue Length [ft/ln]	202.92	211.51	134.15	69.39	439.95	50.85	49.31	190.52	320.24	270.24	128.44	33.29

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	43.94	20.22	19.22	40.17	42.88	20.11	39.54	37.09	31.67	42.81	23.81	21.82
Movement LOS	D	C	B	D	D	C	D	D	C	D	C	C
d_A, Approach Delay [s/veh]	24.48			41.21			33.93			34.17		
Approach LOS	C			D			C			C		
d_I, Intersection Delay [s/veh]	33.46											
Intersection LOS	C											
Intersection V/C	1.003											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	29.76	29.76	29.76	29.76
l_p,int, Pedestrian LOS Score for Intersection	3.095	2.838	2.609	2.431
Crosswalk LOS	C	C	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	525	525	425	625
d_b, Bicycle Delay [s]	21.76	21.76	24.81	18.91
l_b,int, Bicycle LOS Score for Intersection	2.512	2.584	2.749	2.477
Bicycle LOS	B	B	B	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 17: Palm Dr (NS) at Dillon Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	36.9
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.015

Intersection Setup

Name	Palm Dr			Palm Dr			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	1	1	0	1
Pocket Length [ft]	150.00	100.00	100.00	150.00	100.00	100.00	155.00	100.00	155.00	140.00	100.00	140.00
Speed [mph]	60.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	116	510	44	21	1220	52	50	67	262	338	215	59
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	55	0	0	0	0	51	7	5	9	0	32	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	171	510	44	21	1220	103	57	72	271	338	247	59
Peak Hour Factor	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	47	139	12	6	334	28	16	20	74	92	68	16
Total Analysis Volume [veh/h]	187	558	48	23	1335	113	62	79	296	370	270	65
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	85
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	8	7	4	0
Auxiliary Signal Groups									5,8			
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	7	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	30	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0
Split [s]	14	27	0	14	27	0	19	21	21	23	25	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	7	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	10	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No	No	No	No	
Maximum Recall	No	No		No	No		No	No	No	No	No	
Pedestrian Recall	No	No		No	No		No	No	No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	85	85	85	85	85	85	85	85	85	85	85	85
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	0.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	10	39	39	3	32	32	5	8	22	19	21	21
g / C, Green / Cycle	0.12	0.46	0.46	0.04	0.38	0.38	0.06	0.09	0.25	0.22	0.25	0.25
(v / s)_i Volume / Saturation Flow Rate	0.11	0.16	0.03	0.01	0.37	0.07	0.03	0.04	0.19	0.21	0.14	0.04
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	211	1649	736	64	1356	605	115	168	405	398	464	395
d1, Uniform Delay [s]	37.00	14.57	12.67	40.10	26.13	17.58	38.61	36.87	29.07	32.42	28.13	25.09
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.15	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	11.82	0.56	0.17	3.33	21.04	0.68	3.86	2.05	2.55	12.74	1.16	0.19
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.89	0.34	0.07	0.36	0.98	0.19	0.54	0.47	0.73	0.93	0.58	0.16
d, Delay for Lane Group [s/veh]	48.83	15.12	12.84	43.43	47.17	18.26	42.47	38.92	31.62	45.16	29.28	25.29
Lane Group LOS	D	B	B	D	D	B	D	D	C	D	C	C
Critical Lane Group	Yes	No	No	No	Yes	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	4.16	2.92	0.45	0.50	15.30	1.41	1.29	1.54	5.23	8.10	4.48	0.95
50th-Percentile Queue Length [ft/ln]	104.01	72.93	11.30	12.43	382.41	35.14	32.16	38.48	130.86	202.57	112.05	23.80
95th-Percentile Queue Length [veh/ln]	7.49	5.25	0.81	0.89	21.71	2.53	2.32	2.77	8.99	12.77	7.95	1.71
95th-Percentile Queue Length [ft/ln]	187.22	131.28	20.35	22.37	542.77	63.26	57.89	69.26	224.66	319.28	198.85	42.83

Movement, Approach, & Intersection Results

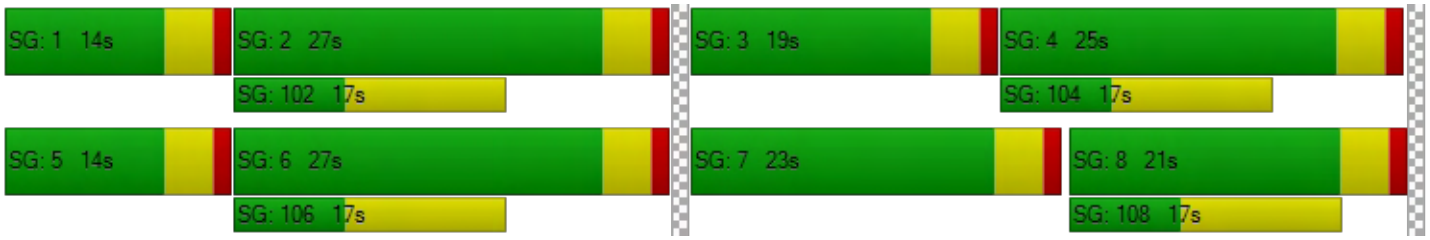
d_M, Delay for Movement [s/veh]	48.83	15.12	12.84	43.43	47.17	18.26	42.47	38.92	31.62	45.16	29.28	25.29
Movement LOS	D	B	B	D	D	B	D	D	C	D	C	C
d_A, Approach Delay [s/veh]	22.93			44.89			34.48			37.25		
Approach LOS	C			D			C			D		
d_I, Intersection Delay [s/veh]	36.86											
Intersection LOS	D											
Intersection V/C	1.015											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	32.21	32.21	32.21	32.21
l_p,int, Pedestrian LOS Score for Intersection	3.369	3.141	2.578	2.510
Crosswalk LOS	C	C	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	541	541	400	494
d_b, Bicycle Delay [s]	22.61	22.61	27.20	24.09
l_b,int, Bicycle LOS Score for Intersection	2.214	2.773	2.281	2.723
Bicycle LOS	B	C	B	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



DHS 109

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Scenario 2 Existing Plus Project
5/17/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
3	Indian Canyon Dr (NS) at Dillon Rd (EW)	Signalized	HCM 6th Edition	EB Left	0.829	31.2	C
9	Little Morongo Rd (NS) at 15th Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.581	14.2	B
14	Palm Dr (NS) at Two Bunch Palms Trail (EW)	Signalized	HCM 6th Edition	WB Left	0.831	26.2	C
17	Palm Dr (NS) at Dillon Rd (EW)	Signalized	HCM 6th Edition	WB Left	0.798	25.1	C

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 3: Indian Canyon Dr (NS) at Dillon Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	31.2
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.829

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			No			No			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	12	400	305	27	212	0	5	82	14	178	89	33
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	24	3	0	0	0	3	0	127	17	17
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	12	400	329	30	212	0	5	85	14	305	106	50
Peak Hour Factor	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	3	103	85	8	55	0	1	22	4	78	27	13
Total Analysis Volume [veh/h]	12	412	338	31	218	0	5	87	14	314	109	51
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	90
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	42	46	0	11	15	0	21	11	0	22	12	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	L	C	L	C	L	C
C, Cycle Length [s]	90	90	90	90	90	90	90	90
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	2	46	4	48	1	6	18	23
g / C, Green / Cycle	0.02	0.51	0.04	0.53	0.01	0.07	0.20	0.26
(v / s)_i Volume / Saturation Flow Rate	0.01	0.43	0.02	0.12	0.00	0.06	0.18	0.09
s, saturation flow rate [veh/h]	1781	1732	1781	1870	1781	1825	1781	1770
c, Capacity [veh/h]	38	887	77	998	19	130	349	454
d1, Uniform Delay [s]	43.46	18.93	41.99	11.09	44.27	41.19	35.38	27.40
k, delay calibration	0.11	0.50	0.11	0.50	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	4.53	9.73	3.33	0.50	7.42	9.67	8.38	0.46
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.31	0.85	0.40	0.22	0.27	0.78	0.90	0.35
d, Delay for Lane Group [s/veh]	47.99	28.66	45.33	11.59	51.69	50.86	43.76	27.86
Lane Group LOS	D	C	D	B	D	D	D	C
Critical Lane Group	No	Yes	Yes	No	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	0.30	13.21	0.70	2.02	0.14	2.40	6.95	2.62
50th-Percentile Queue Length [ft/ln]	7.39	330.13	17.51	50.52	3.57	60.07	173.87	65.55
95th-Percentile Queue Length [veh/ln]	0.53	19.16	1.26	3.64	0.26	4.33	11.28	4.72
95th-Percentile Queue Length [ft/ln]	13.31	479.12	31.52	90.94	6.42	108.13	281.99	117.98

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	47.99	28.66	28.66	45.33	11.59	11.59	51.69	50.86	50.86	43.76	27.86	27.86
Movement LOS	D	C	C	D	B	B	D	D	D	D	C	C
d_A, Approach Delay [s/veh]	28.97			15.79			50.90			38.40		
Approach LOS	C			B			D			D		
d_I, Intersection Delay [s/veh]	31.17											
Intersection LOS	C											
Intersection V/C	0.829											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000	0.000
Crosswalk LOS	F	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	933	244	156	178
d_b, Bicycle Delay [s]	12.80	34.67	38.27	37.36
l_b,int, Bicycle LOS Score for Intersection	2.817	1.970	1.735	2.342
Bicycle LOS	C	A	A	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 9: Little Morongo Rd (NS) at 15th Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	14.2
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.581

Intersection Setup

Name	Little Morongo Rd		Little Morongo Rd		15th Ave	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	No		No		No	

Volumes

Name	Little Morongo Rd		Little Morongo Rd		15th Ave	
Base Volume Input [veh/h]	384	0	0	226	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	52	25	0	285	128
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	384	52	25	226	285	128
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	101	14	7	59	75	34
Total Analysis Volume [veh/h]	404	55	26	238	300	135
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	2	0	0	6	7	0
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-
Minimum Green [s]	7	0	0	7	7	0
Maximum Green [s]	30	0	0	30	30	0
Amber [s]	3.0	0.0	0.0	3.0	3.0	0.0
All red [s]	1.0	0.0	0.0	1.0	1.0	0.0
Split [s]	11	0	0	11	49	0
Vehicle Extension [s]	3.0	0.0	0.0	3.0	3.0	0.0
Walk [s]	7	0	0	7	7	0
Pedestrian Clearance [s]	10	0	0	10	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
Minimum Recall	No			No	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	C	C
C, Cycle Length [s]	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	2.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00
g_i, Effective Green Time [s]	34	34	18
g / C, Green / Cycle	0.57	0.57	0.29
(v / s)_i Volume / Saturation Flow Rate	0.25	0.15	0.25
s, saturation flow rate [veh/h]	1831	1769	1717
c, Capacity [veh/h]	1050	1080	504
d1, Uniform Delay [s]	7.31	6.38	20.08
k, delay calibration	0.50	0.50	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00
d2, Incremental Delay [s]	1.33	0.54	4.51
d3, Initial Queue Delay [s]	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.44	0.24	0.86
d, Delay for Lane Group [s/veh]	8.63	6.91	24.60
Lane Group LOS	A	A	C
Critical Lane Group	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	2.98	1.46	5.82
50th-Percentile Queue Length [ft/ln]	74.41	36.53	145.58
95th-Percentile Queue Length [veh/ln]	5.36	2.63	9.78
95th-Percentile Queue Length [ft/ln]	133.94	65.76	244.52

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	8.63	8.63	6.91	6.91	24.60	24.60
Movement LOS	A	A	A	A	C	C
d_A, Approach Delay [s/veh]	8.63		6.91		24.60	
Approach LOS	A		A		C	
d_I, Intersection Delay [s/veh]	14.24					
Intersection LOS	B					
Intersection V/C	0.581					

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00
I_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000
Crosswalk LOS	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	30.00	30.00	30.00
I_b,int, Bicycle LOS Score for Intersection	4.890	4.568	4.850
Bicycle LOS	E	E	E

Sequence

Ring 1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 14: Palm Dr (NS) at Two Bunch Palms Trail (EW)

Control Type:	Signalized	Delay (sec / veh):	26.2
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.831

Intersection Setup

Name	Palm Dr			Palm Dr			Two Bunch Palms Trail			Two Bunch Palms Trail		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	1
Pocket Length [ft]	96.00	100.00	100.00	101.00	100.00	100.00	95.00	100.00	100.00	70.00	100.00	130.00
Speed [mph]	40.00			35.00			40.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Two Bunch Palms Trail			Two Bunch Palms Trail		
Base Volume Input [veh/h]	180	1009	150	103	656	21	98	161	228	248	129	93
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	21	0	0	4	8	40	21	0	0	4	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	184	1050	153	105	673	29	140	185	233	253	136	95
Peak Hour Factor	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	48	271	40	27	174	7	36	48	60	65	35	25
Total Analysis Volume [veh/h]	190	1086	158	109	696	30	145	191	241	262	141	98
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	70
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	8	7	4	0
Auxiliary Signal Groups									5,8			
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	7	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	30	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0
Split [s]	13	23	0	11	21	0	15	21	21	15	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	7	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	10	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No	No	No	No	
Maximum Recall	No	No		No	No		No	No	No	No	No	
Pedestrian Recall	No	No		No	No		No	No	No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	70	70	70	70	70	70	70	70	70	70	70	70
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	0.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	9	27	27	6	24	24	7	10	23	11	13	13
g / C, Green / Cycle	0.13	0.39	0.39	0.09	0.35	0.35	0.10	0.14	0.32	0.16	0.19	0.19
(v / s)_i Volume / Saturation Flow Rate	0.11	0.31	0.10	0.06	0.20	0.02	0.08	0.10	0.15	0.15	0.08	0.06
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	230	1376	614	160	1235	551	187	259	516	281	357	304
d1, Uniform Delay [s]	29.81	19.02	14.68	31.01	18.62	15.27	30.63	29.04	18.88	29.23	24.87	24.50
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	7.30	4.66	1.01	5.07	1.86	0.19	6.70	4.08	0.66	13.41	0.71	0.61
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.83	0.79	0.26	0.68	0.56	0.05	0.77	0.74	0.47	0.93	0.39	0.32
d, Delay for Lane Group [s/veh]	37.12	23.68	15.69	36.09	20.49	15.46	37.33	33.12	19.54	42.63	25.57	25.11
Lane Group LOS	D	C	B	D	C	B	D	C	B	D	C	C
Critical Lane Group	No	Yes	No	Yes	No	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	3.37	7.60	1.68	1.92	4.47	0.32	2.58	3.16	2.89	5.13	2.00	1.37
50th-Percentile Queue Length [ft/ln]	84.16	190.08	41.99	48.11	111.79	8.06	64.41	78.89	72.19	128.30	49.96	34.30
95th-Percentile Queue Length [veh/ln]	6.06	12.13	3.02	3.46	7.94	0.58	4.64	5.68	5.20	8.85	3.60	2.47
95th-Percentile Queue Length [ft/ln]	151.48	303.14	75.59	86.60	198.49	14.50	115.95	142.01	129.94	221.18	89.92	61.73

Movement, Approach, & Intersection Results

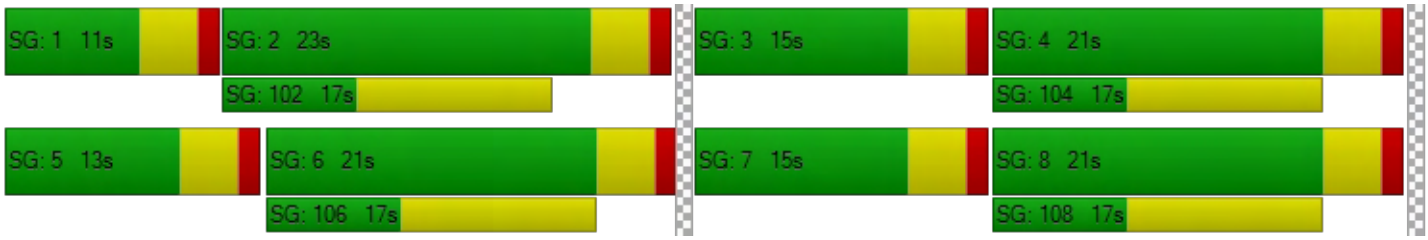
d_M, Delay for Movement [s/veh]	37.12	23.68	15.69	36.09	20.49	15.46	37.33	33.12	19.54	42.63	25.57	25.11
Movement LOS	D	C	B	D	C	B	D	C	B	D	C	C
d_A, Approach Delay [s/veh]	24.58			22.34			28.51			34.40		
Approach LOS	C			C			C			C		
d_I, Intersection Delay [s/veh]	26.17											
Intersection LOS	C											
Intersection V/C	0.831											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	24.86	24.86	24.86	24.86
l_p,int, Pedestrian LOS Score for Intersection	3.010	2.849	2.530	2.390
Crosswalk LOS	C	C	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	543	486	486	486
d_b, Bicycle Delay [s]	18.58	20.06	20.06	20.06
l_b,int, Bicycle LOS Score for Intersection	2.743	2.248	2.512	2.386
Bicycle LOS	B	B	B	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 17: Palm Dr (NS) at Dillon Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	25.1
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.798

Intersection Setup

Name	Palm Dr			Palm Dr			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	1	1	0	1
Pocket Length [ft]	150.00	100.00	100.00	150.00	100.00	100.00	155.00	100.00	155.00	140.00	100.00	140.00
Speed [mph]	60.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	180	1196	248	82	671	73	113	169	111	156	107	103
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	9	0	0	0	0	8	45	29	50	0	5	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	189	1196	248	82	671	81	158	198	161	156	112	103
Peak Hour Factor	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	51	320	66	22	179	22	42	53	43	42	30	28
Total Analysis Volume [veh/h]	202	1279	265	88	718	87	169	212	172	167	120	110
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	70
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	8	7	4	0
Auxiliary Signal Groups									5,8			
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	7	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	30	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0
Split [s]	14	24	0	11	21	0	14	21	21	14	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	7	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	10	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No	No	No	No	
Maximum Recall	No	No		No	No		No	No	No	No	No	
Pedestrian Recall	No	No		No	No		No	No	No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	70	70	70	70	70	70	70	70	70	70	70	70
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	0.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	10	30	30	6	26	26	8	10	24	8	10	10
g / C, Green / Cycle	0.14	0.42	0.42	0.08	0.37	0.37	0.12	0.15	0.34	0.12	0.15	0.15
(v / s)_i Volume / Saturation Flow Rate	0.11	0.36	0.17	0.05	0.20	0.05	0.09	0.11	0.11	0.09	0.06	0.07
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	247	1503	671	149	1307	584	213	277	546	211	275	233
d1, Uniform Delay [s]	29.40	18.31	14.08	31.03	17.62	14.88	30.09	28.76	16.97	30.13	27.32	27.47
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	6.55	6.26	1.74	3.69	1.66	0.54	6.57	4.40	0.33	6.58	1.09	1.47
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.82	0.85	0.39	0.59	0.55	0.15	0.79	0.77	0.31	0.79	0.44	0.47
d, Delay for Lane Group [s/veh]	35.95	24.56	15.82	34.71	19.29	15.42	36.65	33.16	17.30	36.71	28.41	28.94
Lane Group LOS	D	C	B	C	B	B	D	C	B	D	C	C
Critical Lane Group	No	Yes	No	Yes	No	No	No	Yes	No	Yes	No	No
50th-Percentile Queue Length [veh/ln]	3.31	8.26	2.54	1.43	4.02	0.85	2.84	3.35	1.74	2.81	1.70	1.59
50th-Percentile Queue Length [ft/ln]	82.71	206.52	63.52	35.86	100.49	21.21	71.10	83.70	43.62	70.32	42.51	39.64
95th-Percentile Queue Length [veh/ln]	5.96	12.97	4.57	2.58	7.24	1.53	5.12	6.03	3.14	5.06	3.06	2.85
95th-Percentile Queue Length [ft/ln]	148.88	324.37	114.33	64.54	180.89	38.18	127.97	150.66	78.52	126.58	76.51	71.36

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	35.95	24.56	15.82	34.71	19.29	15.42	36.65	33.16	17.30	36.71	28.41	28.94
Movement LOS	D	C	B	C	B	B	D	C	B	D	C	C
d_A, Approach Delay [s/veh]	24.55			20.43			29.29			32.05		
Approach LOS	C			C			C			C		
d_I, Intersection Delay [s/veh]	25.09											
Intersection LOS	C											
Intersection V/C	0.798											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	24.86	24.86	24.86	24.86
l_p,int, Pedestrian LOS Score for Intersection	3.361	3.206	2.547	2.547
Crosswalk LOS	C	C	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	571	486	486	486
d_b, Bicycle Delay [s]	17.86	20.06	20.06	20.06
l_b,int, Bicycle LOS Score for Intersection	3.000	2.296	2.472	2.215
Bicycle LOS	C	B	B	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Existing Plus Ambient Plus Project

DHS 109

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Report File: G:\...\AM EAP.pdf

Scenario 1 Existing Plus Ambient (2021) Plus Project
5/16/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-10 EB Ramps (NS) at Garnet Ave (EW)	Signalized	HCM 6th Edition	EB Left	0.295	18.2	B
2	Indian Canyon Dr (NS) at Pierson Blvd (EW)	All-way stop	HCM 6th Edition	SB Thru	0.815	21.4	C
3	Indian Canyon Dr (NS) at Dillon Rd (EW)	All-way stop	HCM 6th Edition	WB Left	1.201	81.6	F
4	Indian Canyon Dr (NS) at 20th Ave (EW)	Signalized	HCM 6th Edition	SB Left	0.427	15.4	B
5	Indian Canyon Dr (NS) at Garnet Ave (EW)	Signalized	HCM 6th Edition	SB Left	0.571	18.1	B
6	I-10 WB Ramps (NS) at 20th Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.180	25.3	C
7	Little Morongo Rd (NS) at Pierson Blvd (EW)	All-way stop	HCM 6th Edition	WB Thru	0.396	10.5	B
8	Little Morongo Rd (NS) at 14th Ave/2 Bunch Palms (EW)	All-way stop	HCM 6th Edition	SB Thru	0.717	18.9	C
9	Little Morongo Rd (NS) at 15th Ave (EW)	Two-way stop	HCM 6th Edition	WB Left	0.300	33.2	D
10	Little Morongo Rd (NS) at Dillon Rd (EW)	All-way stop	HCM 6th Edition	WB Thru	0.721	19.1	C
11	Atlantic Ave (NS) at Dillon Rd (EW)	Two-way stop	HCM 6th Edition	SB Left	0.012	16.0	C
12	Palm Dr (NS) at Hacienda Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.522	19.4	B
13	Palm Dr (NS) at Ironwood Dr (EW)	Signalized	HCM 6th Edition	NB Left	0.514	14.4	B
14	Palm Dr (NS) at Two Bunch Palms Trail (EW)	Signalized	HCM 6th Edition	EB Right	1.070	67.5	E
15	Palm Dr (NS) at Camino Campanero (EW)	Signalized	HCM 6th Edition	SB Left	0.778	13.9	B
16	Palm Dr (NS) at Camino Aventura (EW)	Two-way stop	HCM 6th Edition	WB Left	0.212	25.6	D
17	Palm Dr (NS) at Dillon Rd (EW)	Signalized	HCM 6th Edition	EB Right	1.071	68.4	E

18	Palm Dr (NS) at Varner Rd (EW)	Signalized	HCM 6th Edition	SB Left	0.835	10.6	B

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-10 EB Ramps (NS) at Garnet Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	18.2
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.295

Intersection Setup

Name	I-10 EB Ramps		Garnet Ave		Garnet Ave	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		No		No	

Volumes

Name	I-10 EB Ramps		Garnet Ave		Garnet Ave	
Base Volume Input [veh/h]	304	17	7	29	57	126
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	69	0	0	0	0	8
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	385	18	7	30	59	139
Peak Hour Factor	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	113	5	2	9	17	41
Total Analysis Volume [veh/h]	451	21	8	35	69	163
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	61
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Permissive	Permissive	Protected	Permissive	Permissive	Overlap
Signal group	1	0	3	8	4	4
Auxiliary Signal Groups						4
Lead / Lag	Lead	-	Lead	-	-	-
Minimum Green [s]	7	0	7	7	7	7
Maximum Green [s]	30	0	30	30	30	30
Amber [s]	3.0	0.0	3.0	3.0	3.0	3.0
All red [s]	1.0	0.0	1.0	1.0	1.0	1.0
Split [s]	26	0	13	34	21	21
Vehicle Extension [s]	3.0	0.0	3.0	3.0	3.0	3.0
Walk [s]	7	0	0	7	7	7
Pedestrian Clearance [s]	10	0	0	10	10	10
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	2.0	2.0	2.0	2.0
I2, Clearance Lost Time [s]	2.0	0.0	2.0	2.0	2.0	2.0
Minimum Recall	No		No	No	No	No
Maximum Recall	No		No	No	No	No
Pedestrian Recall	No		No	No	No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	L	C	C	R
C, Cycle Length [s]	61	61	61	61	61	61
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	11	11	1	42	37	37
g / C, Green / Cycle	0.18	0.18	0.02	0.69	0.61	0.61
(v / s)_i Volume / Saturation Flow Rate	0.13	0.01	0.00	0.02	0.04	0.10
s, saturation flow rate [veh/h]	3459	1589	1781	1870	1870	1589
c, Capacity [veh/h]	613	282	30	1294	1141	970
d1, Uniform Delay [s]	23.81	20.98	29.71	2.96	4.83	5.18
k, delay calibration	0.11	0.11	0.11	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	1.74	0.11	4.80	0.04	0.10	0.37
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.74	0.07	0.27	0.03	0.06	0.17
d, Delay for Lane Group [s/veh]	25.55	21.09	34.50	2.99	4.93	5.56
Lane Group LOS	C	C	C	A	A	A
Critical Lane Group	Yes	No	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	3.02	0.24	0.15	0.10	0.30	0.77
50th-Percentile Queue Length [ft/ln]	75.61	6.12	3.76	2.43	7.44	19.35
95th-Percentile Queue Length [veh/ln]	5.44	0.44	0.27	0.17	0.54	1.39
95th-Percentile Queue Length [ft/ln]	136.09	11.01	6.77	4.37	13.40	34.83

Movement, Approach, & Intersection Results

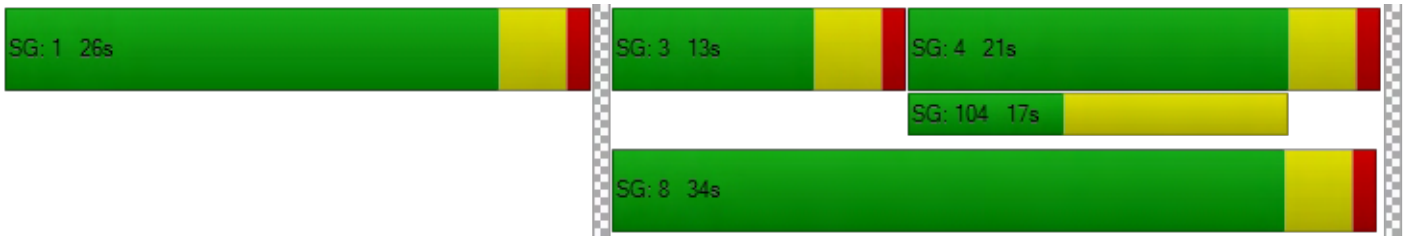
d_M, Delay for Movement [s/veh]	25.55	21.09	34.50	2.99	4.93	5.56
Movement LOS	C	C	C	A	A	A
d_A, Approach Delay [s/veh]	25.36		8.86		5.37	
Approach LOS	C		A		A	
d_I, Intersection Delay [s/veh]	18.20					
Intersection LOS	B					
Intersection V/C	0.295					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	20.49	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	2.266	0.000	0.000
Crosswalk LOS	B	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	30.50	30.50	30.50
l_b,int, Bicycle LOS Score for Intersection	4.132	4.203	4.515
Bicycle LOS	D	D	E

Sequence

Ring 1	1	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 2: Indian Canyon Dr (NS) at Pierson Blvd (EW)

Control Type:	All-way stop	Delay (sec / veh):	21.4
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.815

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Pierson Blvd			Pierson Blvd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			55.00			50.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Pierson Blvd			Pierson Blvd		
Base Volume Input [veh/h]	8	134	91	48	248	29	21	89	33	127	52	20
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	2	1	0	18	5	0	0	9	14	0	1	2
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	10	140	95	68	263	30	22	102	48	132	55	23
Peak Hour Factor	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	3	42	28	20	79	9	7	31	14	39	16	7
Total Analysis Volume [veh/h]	12	167	114	81	315	36	26	122	57	158	66	28
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	500	559	530	469	524	481
Degree of Utilization, x	0.36	0.20	0.81	0.32	0.11	0.52

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	1.61	0.76	7.99	1.34	0.36	2.99
95th-Percentile Queue Length [ft]	40.13	18.95	199.85	33.46	9.10	74.67
Approach Delay [s/veh]	12.65		33.13	12.91		18.41
Approach LOS	B		D	B		C
Intersection Delay [s/veh]	21.41					
Intersection LOS	C					

Intersection Level Of Service Report
Intersection 3: Indian Canyon Dr (NS) at Dillon Rd (EW)

Control Type:	All-way stop	Delay (sec / veh):	81.6
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.201

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	16	193	119	17	410	16	4	78	50	346	72	18
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	142	18	0	0	0	18	0	24	3	2
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	17	201	266	36	426	17	4	99	52	384	78	21
Peak Hour Factor	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	5	56	74	10	119	5	1	28	14	107	22	6
Total Analysis Volume [veh/h]	19	224	297	40	475	19	4	110	58	428	87	23
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	432	474	515	493	394	427	515	492
Degree of Utilization, x	0.56	0.63	1.15	0.04	0.29	0.14	1.20	0.05

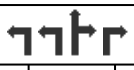
Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	3.37	4.23	18.67	0.12	1.18	0.47	20.30	0.15
95th-Percentile Queue Length [ft]	84.17	105.70	466.63	3.00	29.50	11.67	507.52	3.67
Approach Delay [s/veh]	21.74		112.88		14.47		132.14	
Approach LOS	C		F		B		F	
Intersection Delay [s/veh]	81.61							
Intersection LOS	F							

Intersection Level Of Service Report
Intersection 4: Indian Canyon Dr (NS) at 20th Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	15.4
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.427

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			20th Ave			20th Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	2	0	0
Pocket Length [ft]	157.00	100.00	100.00	82.00	100.00	100.00	75.00	100.00	100.00	190.00	100.00	100.00
Speed [mph]	55.00			55.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			20th Ave			20th Ave		
Base Volume Input [veh/h]	18	272	6	3	828	16	16	2	64	254	51	94
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	87	0	0	24	0	0	0	0	0	0	55
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	19	370	6	3	885	17	17	2	67	264	53	153
Peak Hour Factor	0.9190	0.9190	0.9190	0.9190	0.9190	0.9190	0.9190	0.9190	0.9190	0.9190	0.9190	0.9190
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	5	101	2	1	241	5	5	1	18	72	14	42
Total Analysis Volume [veh/h]	21	403	7	3	963	18	18	2	73	287	58	166
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	65
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	11	15	0	18	22	0	11	14	0	18	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	C	L	C	R	L	C	R
C, Cycle Length [s]	65	65	65	65	65	65	65	65	65	65	65	65
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	2	36	36	0	34	34	2	5	5	8	11	11
g / C, Green / Cycle	0.04	0.55	0.55	0.01	0.52	0.52	0.03	0.08	0.08	0.12	0.17	0.17
(v / s)_i Volume / Saturation Flow Rate	0.01	0.11	0.00	0.00	0.18	0.18	0.01	0.00	0.05	0.08	0.07	0.07
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1852	1781	1870	1589	3459	1718	1589
c, Capacity [veh/h]	65	1945	868	14	1843	959	57	153	130	413	290	268
d1, Uniform Delay [s]	30.67	7.58	6.75	32.20	9.28	9.28	30.88	27.56	28.85	27.60	24.18	24.18
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.87	0.24	0.02	8.02	0.53	1.01	3.08	0.03	3.78	2.11	0.89	0.97
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.32	0.21	0.01	0.22	0.35	0.35	0.31	0.01	0.56	0.70	0.40	0.40
d, Delay for Lane Group [s/veh]	33.54	7.82	6.77	40.22	9.80	10.29	33.96	27.59	32.63	29.72	25.08	25.15
Lane Group LOS	C	A	A	D	A	B	C	C	C	C	C	C
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	0.34	1.01	0.03	0.07	1.97	2.18	0.32	0.03	1.19	2.17	1.59	1.48
50th-Percentile Queue Length [ft/ln]	8.42	25.20	0.83	1.80	49.30	54.58	7.88	0.72	29.70	54.16	39.76	36.93
95th-Percentile Queue Length [veh/ln]	0.61	1.81	0.06	0.13	3.55	3.93	0.57	0.05	2.14	3.90	2.86	2.66
95th-Percentile Queue Length [ft/ln]	15.16	45.35	1.50	3.24	88.74	98.24	14.19	1.30	53.46	97.48	71.57	66.48

Movement, Approach, & Intersection Results

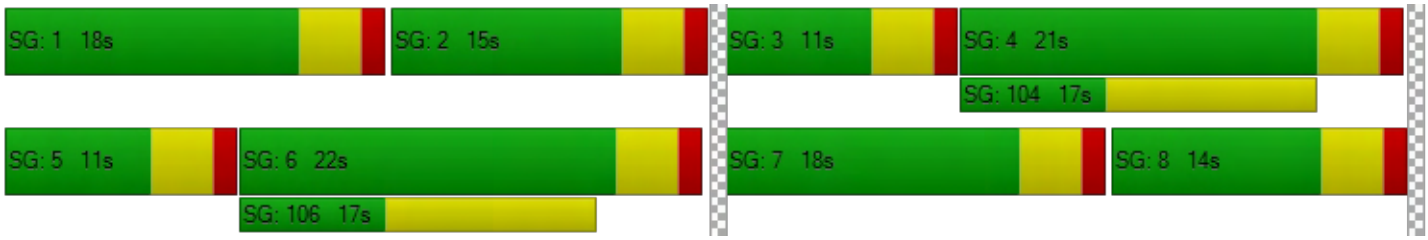
d_M, Delay for Movement [s/veh]	33.54	7.82	6.77	40.22	9.96	10.29	33.96	27.59	32.63	29.72	25.08	25.13
Movement LOS	C	A	A	D	A	B	C	C	C	C	C	C
d_A, Approach Delay [s/veh]	9.06			10.06			32.78			27.70		
Approach LOS	A			B			C			C		
d_I, Intersection Delay [s/veh]	15.36											
Intersection LOS	B											
Intersection V/C	0.427											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	22.43	22.43	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	2.903	2.159	0.000
Crosswalk LOS	F	C	B	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	338	554	308	523
d_b, Bicycle Delay [s]	22.43	16.99	23.27	17.72
l_b,int, Bicycle LOS Score for Intersection	1.915	2.101	1.713	2.403
Bicycle LOS	A	B	A	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report

Intersection 5: Indian Canyon Dr (NS) at Garnet Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	18.1
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.571

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Garnet Ave			Garnet Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	2	0	0	1	0	0
Pocket Length [ft]	132.00	100.00	100.00	223.00	100.00	100.00	166.00	100.00	100.00	75.00	100.00	100.00
Speed [mph]	55.00			55.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			Yes		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Garnet Ave			Garnet Ave		
Base Volume Input [veh/h]	19	441	10	153	774	141	120	12	204	22	5	9
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	18	0	0	3	8	69	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	20	477	10	159	808	155	194	12	212	23	5	9
Peak Hour Factor	0.8930	0.8930	0.8930	0.8930	0.8930	0.8930	0.8930	0.8930	0.8930	0.8930	0.8930	0.8930
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	6	134	3	45	226	43	54	3	59	6	1	3
Total Analysis Volume [veh/h]	22	534	11	178	905	174	217	13	237	26	6	10
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	65
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	8	7	4	0
Auxiliary Signal Groups									8			
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	7	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	30	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0
Split [s]	11	21	0	12	22	0	11	21	21	11	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	7	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	10	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No	No	No	No	
Maximum Recall	No	No		No	No		No	No	No	No	No	
Pedestrian Recall	No	No		No	No		No	No	No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	R	L	C	R	L	C
C, Cycle Length [s]	65	65	65	65	65	65	65	65	65	65	65
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	2	27	27	8	32	32	7	12	12	3	8
g / C, Green / Cycle	0.04	0.41	0.41	0.12	0.50	0.50	0.11	0.18	0.18	0.04	0.12
(v / s)_i Volume / Saturation Flow Rate	0.01	0.10	0.10	0.10	0.25	0.11	0.06	0.01	0.15	0.01	0.01
s, saturation flow rate [veh/h]	1781	3560	1851	1781	3560	1589	3459	1870	1589	1781	1684
c, Capacity [veh/h]	65	1454	756	220	1764	787	367	338	287	74	196
d1, Uniform Delay [s]	30.61	12.67	12.68	27.80	11.12	9.31	27.76	22.01	25.68	30.36	25.68
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	3.02	0.40	0.78	6.95	1.07	0.65	1.52	0.05	5.91	2.81	0.18
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.34	0.25	0.25	0.81	0.51	0.22	0.59	0.04	0.82	0.35	0.08
d, Delay for Lane Group [s/veh]	33.63	13.08	13.46	34.75	12.19	9.96	29.28	22.05	31.60	33.17	25.85
Lane Group LOS	C	B	B	C	B	A	C	C	C	C	C
Critical Lane Group	Yes	No	No	No	Yes	No	No	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	0.35	1.41	1.55	2.76	3.34	1.13	1.61	0.16	3.80	0.44	0.22
50th-Percentile Queue Length [ft/ln]	8.83	35.15	38.67	69.08	83.52	28.33	40.36	4.01	94.88	10.98	5.53
95th-Percentile Queue Length [veh/ln]	0.64	2.53	2.78	4.97	6.01	2.04	2.91	0.29	6.83	0.79	0.40
95th-Percentile Queue Length [ft/ln]	15.89	63.27	69.60	124.35	150.34	50.99	72.65	7.22	170.79	19.76	9.96

Movement, Approach, & Intersection Results

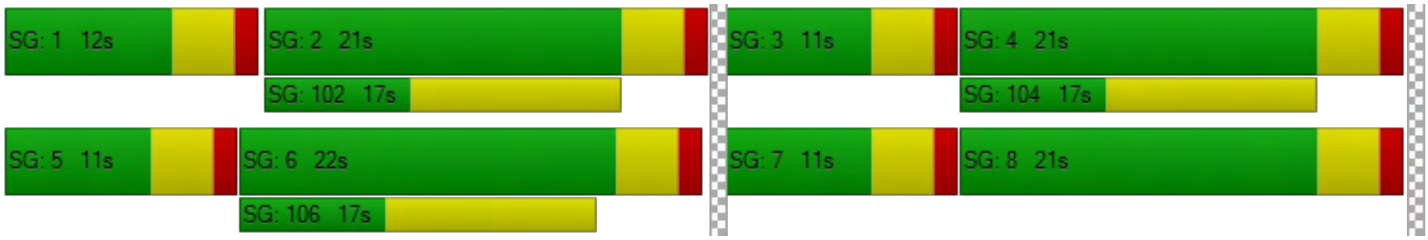
d_M, Delay for Movement [s/veh]	33.63	13.20	13.46	34.75	12.19	9.96	29.28	22.05	31.60	33.17	25.85	25.85
Movement LOS	C	B	B	C	B	A	C	C	C	C	C	C
d_A, Approach Delay [s/veh]	14.00			15.08			30.26			30.38		
Approach LOS	B			B			C			C		
d_I, Intersection Delay [s/veh]	18.13											
Intersection LOS	B											
Intersection V/C	0.571											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	22.43	22.43	22.43
l_p,int, Pedestrian LOS Score for Intersection	0.000	3.091	2.544	2.002
Crosswalk LOS	F	C	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	523	554	523	523
d_b, Bicycle Delay [s]	17.72	16.99	17.72	17.72
l_b,int, Bicycle LOS Score for Intersection	1.871	2.597	2.330	1.629
Bicycle LOS	A	B	B	A

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 6: I-10 WB Ramps (NS) at 20th Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	25.3
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.180

Intersection Setup

Name	I-10 WB Ramps		20th Ave		20th Ave	
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	1	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	90.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	No		No		No	

Volumes

Name	I-10 WB Ramps		20th Ave		20th Ave	
Base Volume Input [veh/h]	366	9	3	1	3	6
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	55	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	436	9	3	1	3	6
Peak Hour Factor	0.8900	0.8900	0.8900	0.8900	0.8900	0.8900
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	122	3	1	0	1	2
Total Analysis Volume [veh/h]	490	10	3	1	3	7
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	63
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-
Minimum Green [s]	7	0	7	0	7	7
Maximum Green [s]	30	0	30	0	30	30
Amber [s]	3.0	0.0	3.0	0.0	3.0	3.0
All red [s]	1.0	0.0	1.0	0.0	1.0	1.0
Split [s]	36	0	11	0	13	24
Vehicle Extension [s]	3.0	0.0	3.0	0.0	3.0	3.0
Walk [s]	7	0	7	0	0	7
Pedestrian Clearance [s]	10	0	10	0	0	10
Rest In Walk	No		No			No
I1, Start-Up Lost Time [s]	2.0	0.0	2.0	0.0	2.0	2.0
I2, Clearance Lost Time [s]	2.0	0.0	2.0	0.0	2.0	2.0
Minimum Recall	No		No		No	No
Maximum Recall	No		No		No	No
Pedestrian Recall	No		No		No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	C	L	C
C, Cycle Length [s]	63	63	63	63	63
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	12	12	39	0	43
g / C, Green / Cycle	0.19	0.19	0.61	0.01	0.68
(v / s)_i Volume / Saturation Flow Rate	0.14	0.01	0.00	0.00	0.00
s, saturation flow rate [veh/h]	3459	1589	1791	1781	3560
c, Capacity [veh/h]	658	302	1097	14	2432
d1, Uniform Delay [s]	24.13	20.84	4.76	31.15	3.18
k, delay calibration	0.11	0.11	0.50	0.11	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	1.70	0.04	0.01	8.01	0.00
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.75	0.03	0.00	0.22	0.00
d, Delay for Lane Group [s/veh]	25.83	20.89	4.76	39.16	3.18
Lane Group LOS	C	C	A	D	A
Critical Lane Group	Yes	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	3.39	0.12	0.02	0.07	0.01
50th-Percentile Queue Length [ft/ln]	84.66	2.94	0.44	1.84	0.25
95th-Percentile Queue Length [veh/ln]	6.10	0.21	0.03	0.13	0.02
95th-Percentile Queue Length [ft/ln]	152.39	5.29	0.78	3.32	0.45

Movement, Approach, & Intersection Results

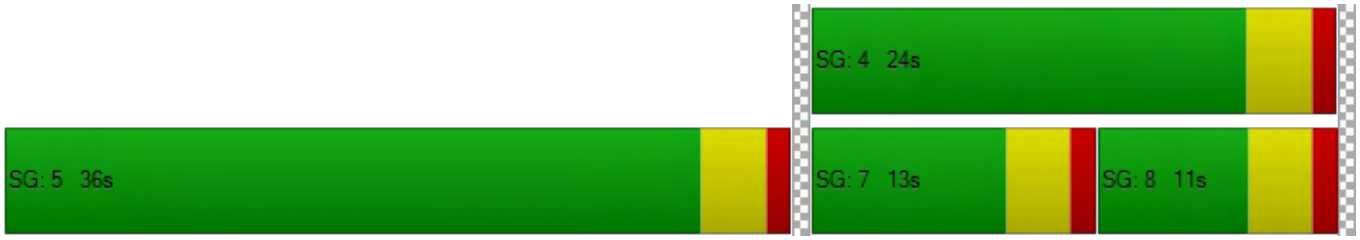
d_M, Delay for Movement [s/veh]	25.83	20.89	4.76	4.76	39.16	3.18
Movement LOS	C	C	A	A	D	A
d_A, Approach Delay [s/veh]	25.73		4.76		13.97	
Approach LOS	C		A		B	
d_I, Intersection Delay [s/veh]	25.34					
Intersection LOS	C					
Intersection V/C	0.180					

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000
Crosswalk LOS	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	31.50	31.50	31.50
l_b,int, Bicycle LOS Score for Intersection	4.132	4.139	4.141
Bicycle LOS	D	D	D

Sequence

Ring 1	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 7: Little Morongo Rd (NS) at Pierson Blvd (EW)

Control Type:	All-way stop	Delay (sec / veh):	10.5
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.396

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			Pierson Blvd			Pierson Blvd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			45.00			50.00			50.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			Pierson Blvd			Pierson Blvd		
Base Volume Input [veh/h]	7	36	22	26	88	22	3	113	38	26	148	26
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	4	3	3	0	23	0	0	0	28	23	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	11	41	27	28	119	24	3	123	70	51	160	28
Peak Hour Factor	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	3	12	8	8	35	7	1	36	20	15	47	8
Total Analysis Volume [veh/h]	13	48	32	33	139	28	4	144	82	60	187	33
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	666	675	627	717	623	728
Degree of Utilization, x	0.14	0.30	0.24	0.11	0.40	0.05

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.48	1.24	0.91	0.39	1.89	0.14
95th-Percentile Queue Length [ft]	12.10	30.97	22.84	9.64	47.35	3.56
Approach Delay [s/veh]	9.29	10.57	9.56		11.71	
Approach LOS	A	B	A		B	
Intersection Delay [s/veh]	10.53					
Intersection LOS	B					

Intersection Level Of Service Report

Intersection 8: Little Morongo Rd (NS) at 14th Ave/2 Bunch Palms (EW)

Control Type:	All-way stop	Delay (sec / veh):	18.9
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.717

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			14th Ave			Two Bunch Palms Trail		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			30.00			45.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			14th Ave			Two Bunch Palms Trail		
Base Volume Input [veh/h]	2	123	80	84	211	1	1	8	15	187	6	29
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	10	9	0	74	0	0	0	0	69	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	2	140	94	89	298	1	1	8	16	268	6	31
Peak Hour Factor	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	40	27	26	86	0	0	2	5	77	2	9
Total Analysis Volume [veh/h]	2	161	108	102	343	1	1	9	18	308	7	36
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	617	622	534	504	606
Degree of Utilization, x	0.44	0.72	0.05	0.63	0.06

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	2.24	5.98	0.17	4.24	0.19
95th-Percentile Queue Length [ft]	55.93	149.51	4.14	106.03	4.72
Approach Delay [s/veh]	13.34	22.08	10.12	19.79	
Approach LOS	B	C	B	C	
Intersection Delay [s/veh]	18.88				
Intersection LOS	C				

Intersection Level Of Service Report
Intersection 9: Little Morongo Rd (NS) at 15th Ave (EW)

Control Type:	Two-way stop	Delay (sec / veh):	33.2
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.300

Intersection Setup

Name	Little Morongo Rd		Little Morongo Rd		15th Ave	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		No	

Volumes

Name	Little Morongo Rd		Little Morongo Rd		15th Ave	
Base Volume Input [veh/h]	205	0	0	413	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	316	143	0	50	19
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	213	316	143	430	50	19
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	56	83	38	113	13	5
Total Analysis Volume [veh/h]	224	333	151	453	53	20
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.15	0.00	0.30	0.03
d_M, Delay for Movement [s/veh]	0.00	0.00	9.17	0.00	33.22	18.31
Movement LOS	A	A	A	A	D	C
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.49	0.49	1.38	1.38
95th-Percentile Queue Length [ft/ln]	0.00	0.00	12.26	12.26	34.45	34.45
d_A, Approach Delay [s/veh]	0.00		2.29		29.14	
Approach LOS	A		A		D	
d_I, Intersection Delay [s/veh]	2.85					
Intersection LOS	D					

Intersection Level Of Service Report
Intersection 10: Little Morongo Rd (NS) at Dillon Rd (EW)

Control Type:	All-way stop	Delay (sec / veh):	19.1
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.721

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	1	0	0	1	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	205.00	100.00	100.00	146.00	100.00	100.00
Speed [mph]	30.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	0	0	2	117	0	173	61	75	1	1	200	42
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	21	0	29	178	0	0	0	0	138
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	2	148	0	216	244	81	1	1	216	184
Peak Hour Factor	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	1	39	0	58	65	22	0	0	58	49
Total Analysis Volume [veh/h]	0	0	2	158	0	230	260	86	1	1	230	196
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	539	614	512	553	520	591
Degree of Utilization, x	0.00	0.63	0.51	0.16	0.00	0.72

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.01	4.46	2.84	0.55	0.01	6.00
95th-Percentile Queue Length [ft]	0.28	111.41	70.97	13.87	0.14	149.93
Approach Delay [s/veh]	9.70	18.41	15.17		22.88	
Approach LOS	A	C	C		C	
Intersection Delay [s/veh]	19.07					
Intersection LOS	C					

Intersection Level Of Service Report
Intersection 11: Atlantic Ave (NS) at Dillon Rd (EW)

Control Type:	Two-way stop	Delay (sec / veh):	16.0
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.012

Intersection Setup

Name	Atlantic Ave		Dillon Rd		Dillon Rd	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		55.00		55.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		No	

Volumes

Name	Atlantic Ave		Dillon Rd		Dillon Rd	
Base Volume Input [veh/h]	4	4	3	263	345	1
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	21	138	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	4	4	3	306	511	1
Peak Hour Factor	0.9750	0.9750	0.9750	0.9750	0.9750	0.9750
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	1	1	78	131	0
Total Analysis Volume [veh/h]	4	4	3	314	524	1
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane	No		
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.01	0.00	0.00	0.01	0.00
d_M, Delay for Movement [s/veh]	16.01	11.68	8.47	0.00	0.00	0.00
Movement LOS	C	B	A	A	A	A
95th-Percentile Queue Length [veh/ln]	0.06	0.06	0.01	0.01	0.00	0.00
95th-Percentile Queue Length [ft/ln]	1.47	1.47	0.22	0.22	0.00	0.00
d_A, Approach Delay [s/veh]	13.84		0.08		0.00	
Approach LOS	B		A		A	
d_I, Intersection Delay [s/veh]	0.16					
Intersection LOS	C					

Intersection Level Of Service Report
Intersection 12: Palm Dr (NS) at Hacienda Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	19.4
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.522

Intersection Setup

Name	Palm Dr			Palm Dr			Hacienda Ave			Hacienda Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0
Pocket Length [ft]	110.00	100.00	100.00	90.00	100.00	100.00	70.00	100.00	100.00	80.00	100.00	100.00
Speed [mph]	35.00			35.00			45.00			40.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Hacienda Ave			Hacienda Ave		
Base Volume Input [veh/h]	50	565	44	85	657	22	23	124	93	121	121	96
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	1	3	2	0	23	0	0	0	9	14	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	54	602	49	90	720	23	24	131	108	142	128	102
Peak Hour Factor	0.9690	0.9690	0.9690	0.9690	0.9690	0.9690	0.9690	0.9690	0.9690	0.9690	0.9690	0.9690
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	14	155	13	23	186	6	6	34	28	37	33	26
Total Analysis Volume [veh/h]	56	621	51	93	743	24	25	135	111	147	132	105
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	65
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	11	21	0	11	21	0	11	21	0	12	22	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	C	L	C	C	L	C	R
C, Cycle Length [s]	65	65	65	65	65	65	65	65	65	65	65	65
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	5	29	29	6	31	31	3	7	7	7	11	11
g / C, Green / Cycle	0.07	0.45	0.45	0.09	0.47	0.47	0.04	0.11	0.11	0.11	0.17	0.17
(v / s)_i Volume / Saturation Flow Rate	0.03	0.18	0.18	0.05	0.21	0.21	0.01	0.07	0.07	0.08	0.07	0.07
s, saturation flow rate [veh/h]	1781	1870	1821	1781	1870	1849	1781	1870	1604	1781	1870	1589
c, Capacity [veh/h]	126	842	820	160	877	867	74	203	174	190	325	276
d1, Uniform Delay [s]	29.09	12.06	12.07	28.54	11.60	11.60	30.41	27.83	27.99	28.40	23.98	23.86
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.44	1.44	1.49	3.35	1.60	1.62	2.67	3.17	4.56	6.64	0.82	0.86
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.44	0.40	0.40	0.58	0.44	0.44	0.34	0.63	0.68	0.78	0.41	0.38
d, Delay for Lane Group [s/veh]	31.53	13.51	13.55	31.89	13.20	13.22	33.08	31.00	32.55	35.05	24.80	24.72
Lane Group LOS	C	B	B	C	B	B	C	C	C	D	C	C
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	0.88	3.16	3.10	1.46	3.53	3.49	0.40	1.90	1.83	2.41	1.73	1.37
50th-Percentile Queue Length [ft/ln]	21.97	79.10	77.39	36.53	88.13	87.29	10.12	47.56	45.67	60.23	43.13	34.34
95th-Percentile Queue Length [veh/ln]	1.58	5.69	5.57	2.63	6.35	6.28	0.73	3.42	3.29	4.34	3.11	2.47
95th-Percentile Queue Length [ft/ln]	39.54	142.37	139.31	65.75	158.64	157.12	18.21	85.61	82.21	108.41	77.64	61.81

Movement, Approach, & Intersection Results

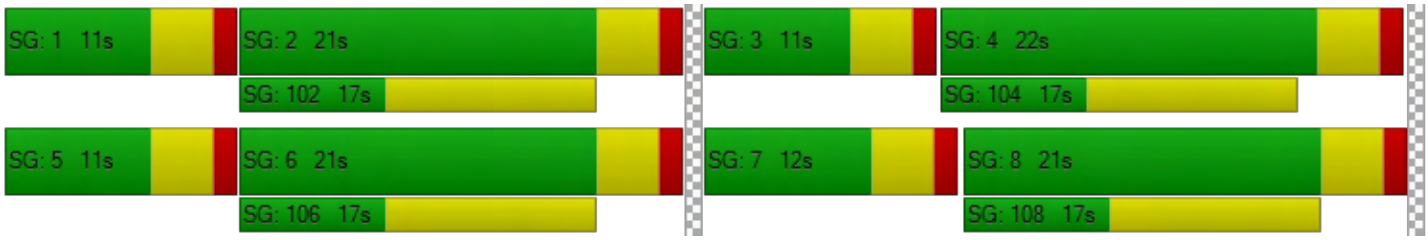
d_M, Delay for Movement [s/veh]	31.53	13.53	13.55	31.89	13.21	13.22	33.08	31.08	32.55	35.05	24.80	24.72
Movement LOS	C	B	B	C	B	B	C	C	C	D	C	C
d_A, Approach Delay [s/veh]	14.91			15.23			31.87			28.70		
Approach LOS	B			B			C			C		
d_I, Intersection Delay [s/veh]	19.44											
Intersection LOS	B											
Intersection V/C	0.522											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	22.43	22.43	22.43	22.43
l_p,int, Pedestrian LOS Score for Intersection	2.675	2.648	2.290	2.454
Crosswalk LOS	B	B	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	523	523	523	554
d_b, Bicycle Delay [s]	17.72	17.72	17.72	16.99
l_b,int, Bicycle LOS Score for Intersection	2.160	2.269	1.783	2.193
Bicycle LOS	B	B	A	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 13: Palm Dr (NS) at Ironwood Dr (EW)

Control Type:	Signalized	Delay (sec / veh):	14.4
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.514

Intersection Setup

Name	Palm Dr			Palm Dr			Ironwood Dr			Ironwood Dr		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0
Pocket Length [ft]	117.00	100.00	100.00	100.00	100.00	100.00	58.00	100.00	100.00	60.00	100.00	100.00
Speed [mph]	35.00			35.00			35.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Ironwood Dr			Ironwood Dr		
Base Volume Input [veh/h]	15	634	40	25	778	15	26	34	35	85	42	32
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	1	6	2	0	46	0	0	0	9	14	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	17	665	44	26	855	16	27	35	45	102	44	33
Peak Hour Factor	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	5	185	12	7	238	4	8	10	13	28	12	9
Total Analysis Volume [veh/h]	19	741	49	29	953	18	30	39	50	114	49	37
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	65
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	12	22	0	11	21	0	11	21	0	11	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	C	L	C	L	C
C, Cycle Length [s]	65	65	65	65	65	65	65	65	65	65
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	2	34	34	3	35	35	3	6	6	9
g / C, Green / Cycle	0.03	0.53	0.53	0.05	0.54	0.54	0.05	0.09	0.09	0.14
(v / s)_i Volume / Saturation Flow Rate	0.01	0.21	0.21	0.02	0.26	0.26	0.02	0.05	0.06	0.05
s, saturation flow rate [veh/h]	1781	1870	1829	1781	1870	1858	1781	1701	1781	1738
c, Capacity [veh/h]	60	982	961	82	1006	999	84	149	171	236
d1, Uniform Delay [s]	30.81	9.36	9.36	30.18	9.43	9.43	30.12	28.66	28.51	25.63
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	3.00	1.25	1.28	2.54	1.67	1.68	2.51	3.77	4.47	0.94
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.32	0.41	0.41	0.35	0.48	0.48	0.36	0.60	0.67	0.36
d, Delay for Lane Group [s/veh]	33.81	10.61	10.64	32.72	11.10	11.11	32.64	32.43	32.98	26.57
Lane Group LOS	C	B	B	C	B	B	C	C	C	C
Critical Lane Group	Yes	No	No	No	No	Yes	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	0.33	3.10	3.05	0.48	3.90	3.88	0.49	1.42	1.83	1.20
50th-Percentile Queue Length [ft/ln]	8.16	77.58	76.14	11.89	97.49	96.93	12.27	35.39	45.68	29.88
95th-Percentile Queue Length [veh/ln]	0.59	5.59	5.48	0.86	7.02	6.98	0.88	2.55	3.29	2.15
95th-Percentile Queue Length [ft/ln]	14.68	139.64	137.06	21.41	175.48	174.47	22.08	63.70	82.23	53.79

Movement, Approach, & Intersection Results

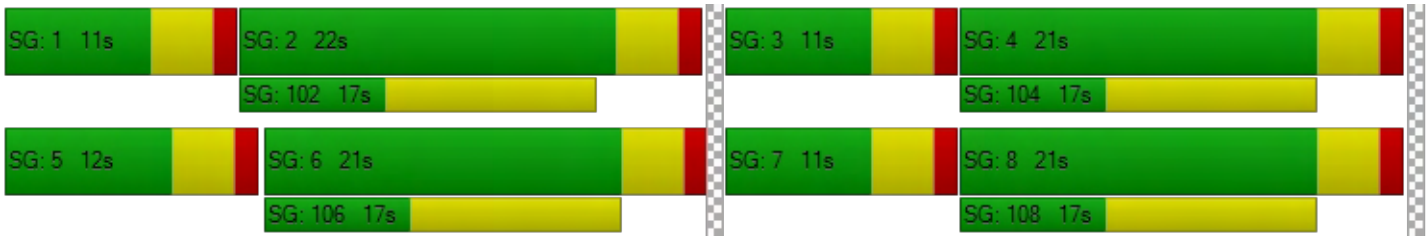
d_M, Delay for Movement [s/veh]	33.81	10.62	10.64	32.72	11.10	11.11	32.64	32.43	32.43	32.98	26.57	26.57
Movement LOS	C	B	B	C	B	B	C	C	C	C	C	C
d_A, Approach Delay [s/veh]	11.17			11.73			32.48			30.22		
Approach LOS	B			B			C			C		
d_I, Intersection Delay [s/veh]	14.41											
Intersection LOS	B											
Intersection V/C	0.514											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	22.43	22.43	22.43	22.43
l_p,int, Pedestrian LOS Score for Intersection	2.800	2.693	2.000	2.042
Crosswalk LOS	C	B	A	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	554	523	523	523
d_b, Bicycle Delay [s]	16.99	17.72	17.72	17.72
l_b,int, Bicycle LOS Score for Intersection	2.227	2.385	1.756	1.890
Bicycle LOS	B	B	A	A

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 14: Palm Dr (NS) at Two Bunch Palms Trail (EW)

Control Type:	Signalized	Delay (sec / veh):	67.5
Analysis Method:	HCM 6th Edition	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.070

Intersection Setup

Name	Palm Dr			Palm Dr			Two Bunch Palms Trail			Two Bunch Palms Trail		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	1
Pocket Length [ft]	96.00	100.00	100.00	101.00	100.00	100.00	95.00	100.00	100.00	70.00	100.00	130.00
Speed [mph]	40.00			35.00			40.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Two Bunch Palms Trail			Two Bunch Palms Trail		
Base Volume Input [veh/h]	181	594	188	64	885	24	40	182	373	259	139	45
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	3	0	0	23	46	6	3	0	0	23	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	192	633	200	68	962	71	49	196	395	275	171	48
Peak Hour Factor	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	56	185	59	20	282	21	14	57	116	81	50	14
Total Analysis Volume [veh/h]	225	741	234	80	1126	83	57	230	463	322	200	56
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	110
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	17	34	0	19	36	0	15	34	0	23	42	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	110	110	110	110	110	110	110	110	110	110	110	110
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	13	39	39	6	32	32	6	30	30	19	43	43
g / C, Green / Cycle	0.12	0.35	0.35	0.06	0.29	0.29	0.05	0.27	0.27	0.17	0.39	0.39
(v / s)_i Volume / Saturation Flow Rate	0.13	0.21	0.15	0.04	0.32	0.05	0.03	0.12	0.29	0.18	0.11	0.04
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	211	1253	559	104	1039	464	94	508	432	308	732	622
d1, Uniform Delay [s]	48.50	29.18	27.10	51.08	38.95	29.10	51.00	33.29	40.07	45.51	22.80	21.11
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.50	0.20	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	48.75	2.06	2.29	11.30	53.32	0.84	6.18	0.63	64.10	45.51	0.20	0.06
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	1.07	0.59	0.42	0.77	1.08	0.18	0.61	0.45	1.07	1.05	0.27	0.09
d, Delay for Lane Group [s/veh]	97.25	31.24	29.39	62.37	92.28	29.94	57.18	33.92	104.17	91.01	23.00	21.17
Lane Group LOS	F	C	C	E	F	C	E	C	F	F	C	C
Critical Lane Group	Yes	No	No	No	Yes	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	8.49	8.07	4.88	2.48	21.31	1.73	1.67	5.05	18.89	12.14	3.50	0.91
50th-Percentile Queue Length [ft/ln]	212.37	201.71	121.97	61.90	532.67	43.31	41.74	126.19	472.21	303.42	87.58	22.70
95th-Percentile Queue Length [veh/ln]	13.63	12.73	8.50	4.46	30.35	3.12	3.01	8.73	27.14	18.26	6.31	1.63
95th-Percentile Queue Length [ft/ln]	340.87	318.18	212.53	111.43	758.69	77.96	75.13	218.30	678.49	456.43	157.65	40.87

Movement, Approach, & Intersection Results

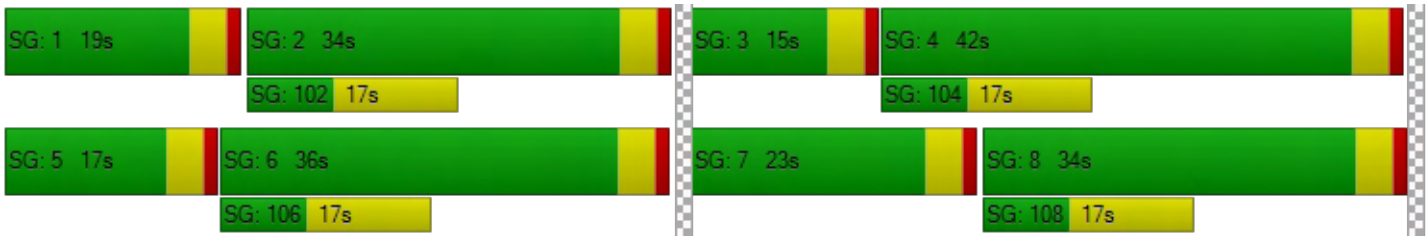
d_M, Delay for Movement [s/veh]	97.25	31.24	29.39	62.37	92.28	29.94	57.18	33.92	104.17	91.01	23.00	21.17
Movement LOS	F	C	C	E	F	C	E	C	F	F	C	C
d_A, Approach Delay [s/veh]	43.26			86.41			79.06			60.71		
Approach LOS	D			F			E			E		
d_I, Intersection Delay [s/veh]	67.51											
Intersection LOS	E											
Intersection V/C	1.070											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	44.55	44.55	44.55	44.55
l_p,int, Pedestrian LOS Score for Intersection	3.136	2.869	2.636	2.460
Crosswalk LOS	C	C	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	545	582	545	691
d_b, Bicycle Delay [s]	29.09	27.65	29.09	23.56
l_b,int, Bicycle LOS Score for Intersection	2.550	2.623	2.797	2.513
Bicycle LOS	B	B	C	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 15: Palm Dr (NS) at Camino Campanero (EW)

Control Type:	Signalized	Delay (sec / veh):	13.9
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.778

Intersection Setup

Name	Palm Dr		Palm Dr		Camino Campanero	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	1	0	0	1
Pocket Length [ft]	100.00	100.00	80.00	100.00	100.00	87.00
Speed [mph]	45.00		40.00		25.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		No		Yes	

Volumes

Name	Palm Dr		Palm Dr		Camino Campanero	
Base Volume Input [veh/h]	747	28	190	1234	24	213
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	3	2	0	23	14	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	780	31	198	1306	39	222
Peak Hour Factor	0.8130	0.8130	0.8130	0.8130	0.8130	0.8130
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	240	10	61	402	12	68
Total Analysis Volume [veh/h]	959	38	244	1606	48	273
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Permissive	Permissive	Protected	Permissive	Split	Split
Signal group	2	0	1	6	7	0
Auxiliary Signal Groups						
Lead / Lag	-	-	Lead	-	Lead	-
Minimum Green [s]	7	0	7	7	7	0
Maximum Green [s]	30	0	30	30	30	0
Amber [s]	3.0	0.0	3.0	3.0	3.0	0.0
All red [s]	1.0	0.0	1.0	1.0	1.0	0.0
Split [s]	21	0	18	39	21	0
Vehicle Extension [s]	3.0	0.0	3.0	3.0	3.0	0.0
Walk [s]	7	0	0	7	7	0
Pedestrian Clearance [s]	10	0	0	10	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	0.0	2.0	2.0	2.0	0.0
Minimum Recall	No		No	No	No	
Maximum Recall	No		No	No	No	
Pedestrian Recall	No		No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	R	L	C	L	R
C, Cycle Length [s]	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	26	26	10	40	12	12
g / C, Green / Cycle	0.43	0.43	0.17	0.66	0.21	0.21
(v / s)_i Volume / Saturation Flow Rate	0.27	0.02	0.14	0.45	0.03	0.17
s, saturation flow rate [veh/h]	3560	1589	1781	3560	1781	1589
c, Capacity [veh/h]	1517	677	300	2353	367	328
d1, Uniform Delay [s]	13.56	10.15	24.11	6.31	19.48	22.88
k, delay calibration	0.50	0.50	0.11	0.50	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.02	0.16	5.34	1.63	0.16	5.50
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.63	0.06	0.81	0.68	0.13	0.83
d, Delay for Lane Group [s/veh]	15.58	10.31	29.46	7.93	19.64	28.39
Lane Group LOS	B	B	C	A	B	C
Critical Lane Group	No	No	No	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	4.35	0.26	3.43	3.91	0.54	4.00
50th-Percentile Queue Length [ft/ln]	108.87	6.57	85.76	97.84	13.48	99.91
95th-Percentile Queue Length [veh/ln]	7.78	0.47	6.17	7.04	0.97	7.19
95th-Percentile Queue Length [ft/ln]	194.43	11.83	154.36	176.11	24.27	179.84

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	15.58	10.31	29.46	7.93	19.64	28.39
Movement LOS	B	B	C	A	B	C
d_A, Approach Delay [s/veh]	15.38		10.77		27.08	
Approach LOS	B		B		C	
d_I, Intersection Delay [s/veh]	13.87					
Intersection LOS	B					
Intersection V/C	0.778					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	0.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	20.01	0.00	20.01
l_p,int, Pedestrian LOS Score for Intersection	3.053	0.000	2.081
Crosswalk LOS	C	F	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	30.00	30.00	30.00
l_b,int, Bicycle LOS Score for Intersection	4.955	5.659	4.132
Bicycle LOS	E	F	D

Sequence

Ring 1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 16: Palm Dr (NS) at Camino Aventura (EW)

Control Type:	Two-way stop	Delay (sec / veh):	25.6
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.212

Intersection Setup

Name	Palm Dr		Palm Dr		Camino Aventura	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	1	0	0	0
Pocket Length [ft]	100.00	100.00	200.00	100.00	100.00	100.00
Speed [mph]	45.00		45.00		40.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		Yes	

Volumes

Name	Palm Dr		Palm Dr		Camino Aventura	
Base Volume Input [veh/h]	608	14	77	1295	24	92
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	5	2	0	37	14	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	637	17	80	1384	39	96
Peak Hour Factor	0.8290	0.8290	0.8290	0.8290	0.8290	0.8290
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	192	5	24	417	12	29
Total Analysis Volume [veh/h]	768	21	97	1669	47	116
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			Yes
Number of Storage Spaces in Median	0	0	2

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.12	0.02	0.21	0.19
d_M, Delay for Movement [s/veh]	0.00	0.00	9.93	0.00	25.57	12.22
Movement LOS	A	A	A	A	D	B
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.40	0.00	0.78	0.69
95th-Percentile Queue Length [ft/ln]	0.00	0.00	9.93	0.00	19.50	17.27
d_A, Approach Delay [s/veh]	0.00		0.55		16.07	
Approach LOS	A		A		C	
d_I, Intersection Delay [s/veh]	1.32					
Intersection LOS	D					

Intersection Level Of Service Report
Intersection 17: Palm Dr (NS) at Dillon Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	68.4
Analysis Method:	HCM 6th Edition	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.071

Intersection Setup

Name	Palm Dr			Palm Dr			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	1	1	0	1
Pocket Length [ft]	150.00	100.00	100.00	150.00	100.00	100.00	155.00	100.00	155.00	140.00	100.00	140.00
Speed [mph]	60.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	116	510	44	21	1220	52	50	67	262	338	215	59
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	55	0	0	0	0	51	7	5	9	0	32	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	176	530	46	22	1269	105	59	75	281	352	256	61
Peak Hour Factor	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	48	145	13	6	347	29	16	21	77	96	70	17
Total Analysis Volume [veh/h]	193	580	50	24	1388	115	65	82	307	385	280	67
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	105
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	15	40	0	16	41	0	12	23	0	26	37	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	105	105	105	105	105	105	105	105	105	105	105	105
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	11	45	45	4	37	37	6	19	19	22	35	35
g / C, Green / Cycle	0.10	0.42	0.42	0.03	0.35	0.35	0.06	0.18	0.18	0.21	0.33	0.33
(v / s)_i Volume / Saturation Flow Rate	0.11	0.16	0.03	0.01	0.39	0.07	0.04	0.04	0.19	0.22	0.15	0.04
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	187	1511	674	61	1258	562	102	336	286	373	621	528
d1, Uniform Delay [s]	47.01	20.80	17.98	49.67	33.97	23.68	48.47	36.97	43.09	41.52	27.56	24.46
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.21	0.27	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	38.97	0.74	0.21	4.11	58.55	0.82	6.49	0.37	56.59	42.76	0.51	0.11
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	1.03	0.38	0.07	0.39	1.10	0.20	0.64	0.24	1.07	1.03	0.45	0.13
d, Delay for Lane Group [s/veh]	85.98	21.54	18.19	53.78	92.52	24.50	54.96	37.34	99.68	84.29	28.07	24.57
Lane Group LOS	F	C	B	D	F	C	D	D	F	F	C	C
Critical Lane Group	Yes	No	No	No	Yes	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	6.60	4.51	0.69	0.66	24.69	1.97	1.77	1.74	11.42	13.42	5.17	1.10
50th-Percentile Queue Length [ft/ln]	164.90	112.63	17.20	16.43	617.15	49.26	44.21	43.53	285.46	335.57	129.34	27.40
95th-Percentile Queue Length [veh/ln]	10.94	7.99	1.24	1.18	35.04	3.55	3.18	3.13	17.57	19.76	8.90	1.97
95th-Percentile Queue Length [ft/ln]	273.44	199.65	30.97	29.58	875.98	88.66	79.58	78.35	439.22	494.08	222.60	49.31

Movement, Approach, & Intersection Results

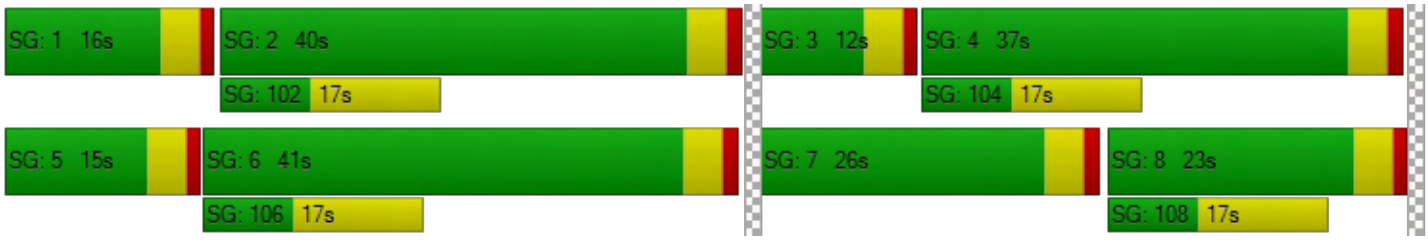
d_M, Delay for Movement [s/veh]	85.98	21.54	18.19	53.78	92.52	24.50	54.96	37.34	99.68	84.29	28.07	24.57
Movement LOS	F	C	B	D	F	C	D	D	F	F	C	C
d_A, Approach Delay [s/veh]	36.45			86.78			82.02			57.32		
Approach LOS	D			F			F			E		
d_I, Intersection Delay [s/veh]	68.36											
Intersection LOS	E											
Intersection V/C	1.071											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	42.08	42.08	42.08	42.08
l_p,int, Pedestrian LOS Score for Intersection	3.410	3.173	2.604	2.535
Crosswalk LOS	C	C	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	686	705	362	629
d_b, Bicycle Delay [s]	22.67	22.02	35.22	24.69
l_b,int, Bicycle LOS Score for Intersection	2.239	2.819	2.309	2.767
Bicycle LOS	B	C	B	C

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 18: Palm Dr (NS) at Varner Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	10.6
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.835

Intersection Setup

Name	Palm Dr			Palm Dr			Varner Rd			Varner Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	0	0	0	0	0	0
Pocket Length [ft]	173.00	100.00	100.00	195.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	60.00			60.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Varner Rd			Varner Rd		
Base Volume Input [veh/h]	0	663	27	35	1859	0	0	0	0	55	0	15
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	37	0	3	6	0	0	0	0	0	0	18
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	740	29	40	1978	0	0	0	0	58	0	34
Peak Hour Factor	0.8190	0.8190	0.8190	0.8190	0.8190	0.8190	0.8190	0.8190	0.8190	0.8190	0.8190	0.8190
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	226	9	12	604	0	0	0	0	18	0	10
Total Analysis Volume [veh/h]	0	904	35	49	2415	0	0	0	0	71	0	42
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	5	2	0	1	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	-	-	-	-	-	-
Minimum Green [s]	7	7	0	7	7	0	0	7	0	0	7	0
Maximum Green [s]	30	30	0	30	30	0	0	30	0	0	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	11	84	0	15	88	0	0	21	0	0	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall	No	No		No	No			No			No	
Maximum Recall	No	No		No	No			No			No	
Pedestrian Recall	No	No		No	No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	C	C
C, Cycle Length [s]	120	120	120	120	120	120	120	120
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	0	92	92	6	97	97	10	10
g / C, Green / Cycle	0.00	0.77	0.77	0.05	0.81	0.81	0.09	0.09
(v / s)_i Volume / Saturation Flow Rate	0.00	0.25	0.02	0.03	0.68	0.00	0.00	0.07
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1529	1534
c, Capacity [veh/h]	1	2724	1216	84	2890	1290	164	183
d1, Uniform Delay [s]	0.00	4.44	3.39	55.98	6.61	0.00	0.00	53.70
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.00	0.33	0.04	6.21	3.04	0.00	0.00	3.33
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.00	0.33	0.03	0.58	0.84	0.00	0.00	0.62
d, Delay for Lane Group [s/veh]	0.00	4.77	3.43	62.19	9.65	0.00	0.00	57.04
Lane Group LOS	A	A	A	E	A	A	A	E
Critical Lane Group	No	No	No	No	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	0.00	2.29	0.14	1.53	8.76	0.00	0.00	3.39
50th-Percentile Queue Length [ft/ln]	0.00	57.17	3.56	38.29	218.91	0.00	0.00	84.63
95th-Percentile Queue Length [veh/ln]	0.00	4.12	0.26	2.76	13.61	0.00	0.00	6.09
95th-Percentile Queue Length [ft/ln]	0.00	102.91	6.42	68.91	340.24	0.00	0.00	152.34

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	0.00	4.77	3.43	62.19	9.65	0.00	0.00	0.00	0.00	57.04	57.04	57.04
Movement LOS	A	A	A	E	A	A	A	A	A	E	E	E
d_A, Approach Delay [s/veh]	4.72			10.69			0.00			57.04		
Approach LOS	A			B			A			E		
d_I, Intersection Delay [s/veh]	10.59											
Intersection LOS	B											
Intersection V/C	0.835											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	49.50	49.50	49.50
l_p,int, Pedestrian LOS Score for Intersection	0.000	3.558	1.729	1.905
Crosswalk LOS	F	D	A	A
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	1333	1400	283	283
d_b, Bicycle Delay [s]	6.67	5.40	44.20	44.20
l_b,int, Bicycle LOS Score for Intersection	2.334	3.592	1.560	1.746
Bicycle LOS	B	D	A	A

Sequence

Ring 1	1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



DHS 109

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Report File: G:\...\PM EAP.pdf

Scenario 1 Exsiting Plus Ambient (2021) Plus Project
4/25/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-10 EB Ramps (NS) at Garnet Ave (EW)	Signalized	HCM 6th Edition	EB Left	0.238	15.5	B
2	Indian Canyon Dr (NS) at Pierson Blvd (EW)	All-way stop	HCM 6th Edition	NB Thru	0.674	16.5	C
3	Indian Canyon Dr (NS) at Dillon Rd (EW)	All-way stop	HCM 6th Edition	WB Left	0.997	43.8	E
4	Indian Canyon Dr (NS) at 20th Ave (EW)	Signalized	HCM 6th Edition	EB Right	0.412	16.5	B
5	Indian Canyon Dr (NS) at Garnet Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.423	14.8	B
6	I-10 WB Ramps (NS) at 20th Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.203	24.3	C
7	Little Morongo Rd (NS) at Pierson Blvd (EW)	All-way stop	HCM 6th Edition	EB Thru	0.362	11.0	B
8	Little Morongo Rd (NS) at 14th Ave/2 Bunch Palms (EW)	All-way stop	HCM 6th Edition	NB Right	0.737	15.8	C
9	Little Morongo Rd (NS) at 15th Ave (EW)	Two-way stop	HCM 6th Edition	WB Left	0.810	85.1	F
10	Little Morongo Rd (NS) at Dillon Rd (EW)	All-way stop	HCM 6th Edition	SB Right	0.858	24.6	C
11	Atlantic Ave (NS) at Dillon Rd (EW)	Two-way stop	HCM 6th Edition	SB Left	0.008	14.9	B
12	Palm Dr (NS) at Hacienda Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.694	22.2	C
13	Palm Dr (NS) at Ironwood Dr (EW)	Signalized	HCM 6th Edition	WB Right	0.541	14.4	B
14	Palm Dr (NS) at Two Bunch Palms Trail (EW)	Signalized	HCM 6th Edition	SB Left	0.863	32.5	C
15	Palm Dr (NS) at Camino Campanero (EW)	Signalized	HCM 6th Edition	SB Left	0.746	11.9	B
16	Palm Dr (NS) at Camino Aventura (EW)	Two-way stop	HCM 6th Edition	WB Left	0.165	30.4	D
17	Palm Dr (NS) at Dillon Rd (EW)	Signalized	HCM 6th Edition	EB Left	0.798	27.2	C

18	Palm Dr (NS) at Varner Rd (EW)	Signalized	HCM 6th Edition	NB Left	0.667	7.0	A

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-10 EB Ramps (NS) at Garnet Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	15.5
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.238

Intersection Setup

Name	I-10 EB Ramps		Garnet Ave		Garnet Ave	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		No		No	

Volumes

Name	I-10 EB Ramps		Garnet Ave		Garnet Ave	
Base Volume Input [veh/h]	200	11	10	65	54	93
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	12	0	0	0	0	50
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	220	11	10	68	56	147
Peak Hour Factor	0.8390	0.8390	0.8390	0.8390	0.8390	0.8390
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	66	3	3	20	17	44
Total Analysis Volume [veh/h]	262	13	12	81	67	175
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	63
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Permissive	Permissive	Protected	Permissive	Permissive	Overlap
Signal group	1	0	3	8	4	4
Auxiliary Signal Groups						4
Lead / Lag	Lead	-	Lead	-	-	-
Minimum Green [s]	7	0	7	7	7	7
Maximum Green [s]	30	0	30	30	30	30
Amber [s]	3.0	0.0	3.0	3.0	3.0	3.0
All red [s]	1.0	0.0	1.0	1.0	1.0	1.0
Split [s]	16	0	23	44	21	21
Vehicle Extension [s]	3.0	0.0	3.0	3.0	3.0	3.0
Walk [s]	7	0	0	7	7	7
Pedestrian Clearance [s]	10	0	0	10	10	10
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	2.0	2.0	2.0	2.0
I2, Clearance Lost Time [s]	2.0	0.0	2.0	2.0	2.0	2.0
Minimum Recall	No		No	No	No	No
Maximum Recall	No		No	No	No	No
Pedestrian Recall	No		No	No	No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	L	C	C	R
C, Cycle Length [s]	63	63	63	63	63	63
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	7	7	1	48	43	43
g / C, Green / Cycle	0.11	0.11	0.02	0.76	0.68	0.68
(v / s)_i Volume / Saturation Flow Rate	0.08	0.01	0.01	0.04	0.04	0.11
s, saturation flow rate [veh/h]	3459	1589	1781	1870	1870	1589
c, Capacity [veh/h]	386	177	41	1424	1263	1073
d1, Uniform Delay [s]	26.96	25.12	30.34	1.87	3.45	3.74
k, delay calibration	0.11	0.11	0.11	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.10	0.17	3.86	0.08	0.08	0.33
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.68	0.07	0.29	0.06	0.05	0.16
d, Delay for Lane Group [s/veh]	29.06	25.30	34.20	1.95	3.53	4.07
Lane Group LOS	C	C	C	A	A	A
Critical Lane Group	Yes	No	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	1.91	0.17	0.22	0.14	0.22	0.64
50th-Percentile Queue Length [ft/ln]	47.79	4.37	5.41	3.47	5.53	16.10
95th-Percentile Queue Length [veh/ln]	3.44	0.31	0.39	0.25	0.40	1.16
95th-Percentile Queue Length [ft/ln]	86.02	7.87	9.73	6.24	9.95	28.98

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	29.06	25.30	34.20	1.95	3.53	4.07
Movement LOS	C	C	C	A	A	A
d_A, Approach Delay [s/veh]	28.88		6.11		3.92	
Approach LOS	C		A		A	
d_I, Intersection Delay [s/veh]	15.51					
Intersection LOS	B					
Intersection V/C	0.238					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	21.46	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	2.224	0.000	0.000
Crosswalk LOS	B	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	31.50	31.50	31.50
l_b,int, Bicycle LOS Score for Intersection	4.132	4.286	4.532
Bicycle LOS	D	E	E

Sequence

Ring 1	1	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 2: Indian Canyon Dr (NS) at Pierson Blvd (EW)

Control Type:	All-way stop	Delay (sec / veh):	16.5
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.674

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Pierson Blvd			Pierson Blvd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			55.00			50.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Pierson Blvd			Pierson Blvd		
Base Volume Input [veh/h]	37	292	108	33	146	15	21	99	14	81	76	60
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	13	4	0	3	1	0	0	2	2	0	8	17
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	51	308	112	37	153	16	22	105	17	84	87	79
Peak Hour Factor	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	13	80	29	10	40	4	6	27	4	22	23	21
Total Analysis Volume [veh/h]	53	321	117	39	160	17	23	109	18	88	91	82
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	556	631	524	489	548	525
Degree of Utilization, x	0.67	0.19	0.41	0.27	0.03	0.50

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	5.06	0.68	2.00	1.08	0.10	2.74
95th-Percentile Queue Length [ft]	126.54	16.89	50.04	27.09	2.54	68.50
Approach Delay [s/veh]	18.71		14.61	12.37		16.45
Approach LOS	C		B	B		C
Intersection Delay [s/veh]	16.54					
Intersection LOS	C					

Intersection Level Of Service Report

Intersection 3: Indian Canyon Dr (NS) at Dillon Rd (EW)

Control Type:	All-way stop	Delay (sec / veh):	43.8
Analysis Method:	HCM 6th Edition	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.997

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	12	400	305	27	212	0	5	82	14	178	89	33
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	24	3	0	0	0	3	0	127	17	17
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	12	416	341	31	220	0	5	88	15	312	110	51
Peak Hour Factor	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	3	107	88	8	57	0	1	23	4	80	28	13
Total Analysis Volume [veh/h]	12	428	351	32	226	0	5	91	15	321	113	52
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	466	515	424	428	393	429	435	502
Degree of Utilization, x	0.94	0.68	0.61	0.00	0.24	0.03	1.00	0.10

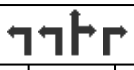
Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	11.30	5.13	3.92	0.00	0.95	0.11	12.68	0.34
95th-Percentile Queue Length [ft]	282.45	128.31	98.05	0.00	23.63	2.71	317.00	8.61
Approach Delay [s/veh]	41.67		23.53		14.33		64.78	
Approach LOS	E		C		B		F	
Intersection Delay [s/veh]	43.81							
Intersection LOS	E							

Intersection Level Of Service Report
Intersection 4: Indian Canyon Dr (NS) at 20th Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	16.5
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.412

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			20th Ave			20th Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	2	0	0
Pocket Length [ft]	157.00	100.00	100.00	82.00	100.00	100.00	75.00	100.00	100.00	190.00	100.00	100.00
Speed [mph]	55.00			55.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			20th Ave			20th Ave		
Base Volume Input [veh/h]	43	597	3	0	426	19	22	1	81	212	37	211
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	15	0	0	127	0	0	0	0	0	0	9
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	45	636	3	0	570	20	23	1	84	220	38	228
Peak Hour Factor	0.9370	0.9370	0.9370	0.9370	0.9370	0.9370	0.9370	0.9370	0.9370	0.9370	0.9370	0.9370
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	12	170	1	0	152	5	6	0	22	59	10	61
Total Analysis Volume [veh/h]	48	679	3	0	608	21	25	1	90	235	41	243
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	68
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	11	21	0	11	21	0	11	22	0	11	22	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	C	L	C	R	L	C	R
C, Cycle Length [s]	68	68	68	68	68	68	68	68	68	68	68	68
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	4	39	39	0	35	35	3	6	6	7	10	10
g / C, Green / Cycle	0.06	0.58	0.58	0.00	0.52	0.52	0.04	0.09	0.09	0.10	0.15	0.15
(v / s)_i Volume / Saturation Flow Rate	0.03	0.19	0.00	0.00	0.12	0.12	0.01	0.00	0.06	0.07	0.09	0.09
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1838	1781	1870	1589	3459	1660	1589
c, Capacity [veh/h]	113	2048	914	3	1827	944	73	161	137	355	245	235
d1, Uniform Delay [s]	30.76	7.61	6.17	0.00	9.15	9.16	31.84	28.53	30.23	29.48	27.16	27.16
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.50	0.44	0.01	0.00	0.29	0.56	2.75	0.02	5.30	2.11	2.26	2.36
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.42	0.33	0.00	0.00	0.23	0.23	0.34	0.01	0.66	0.66	0.59	0.59
d, Delay for Lane Group [s/veh]	33.26	8.05	6.18	0.00	9.44	9.72	34.60	28.54	35.53	31.59	29.43	29.53
Lane Group LOS	C	A	A	A	A	A	C	C	D	C	C	C
Critical Lane Group	No	Yes	No	No	No	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	0.76	1.80	0.01	0.00	1.28	1.40	0.44	0.02	1.58	1.88	2.26	2.17
50th-Percentile Queue Length [ft/ln]	18.89	44.94	0.34	0.00	32.03	35.07	11.09	0.38	39.44	47.06	56.50	54.28
95th-Percentile Queue Length [veh/ln]	1.36	3.24	0.02	0.00	2.31	2.52	0.80	0.03	2.84	3.39	4.07	3.91
95th-Percentile Queue Length [ft/ln]	34.00	80.89	0.61	0.00	57.66	63.12	19.95	0.68	70.99	84.70	101.70	97.70

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	33.26	8.05	6.18	0.00	9.53	9.72	34.60	28.54	35.53	31.59	29.43	29.48
Movement LOS	C	A	A	A	A	A	C	C	D	C	C	C
d_A, Approach Delay [s/veh]	9.70			9.53			35.27			30.43		
Approach LOS	A			A			D			C		
d_I, Intersection Delay [s/veh]	16.53											
Intersection LOS	B											
Intersection V/C	0.412											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	23.89	23.89	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	2.907	2.171	0.000
Crosswalk LOS	F	C	B	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	500	500	529	529
d_b, Bicycle Delay [s]	19.13	19.13	18.38	18.38
l_b,int, Bicycle LOS Score for Intersection	2.162	1.906	1.751	2.416
Bicycle LOS	B	A	A	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report

Intersection 5: Indian Canyon Dr (NS) at Garnet Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	14.8
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.423

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Garnet Ave			Garnet Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	2	0	0	1	0	0
Pocket Length [ft]	132.00	100.00	100.00	223.00	100.00	100.00	166.00	100.00	100.00	75.00	100.00	100.00
Speed [mph]	55.00			55.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			Yes		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Garnet Ave			Garnet Ave		
Base Volume Input [veh/h]	45	829	15	142	368	108	154	16	94	9	6	11
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	3	0	0	17	50	12	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	47	865	16	148	400	162	172	17	98	9	6	11
Peak Hour Factor	0.9770	0.9770	0.9770	0.9770	0.9770	0.9770	0.9770	0.9770	0.9770	0.9770	0.9770	0.9770
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	12	221	4	38	102	41	44	4	25	2	2	3
Total Analysis Volume [veh/h]	48	885	16	151	409	166	176	17	100	9	6	11
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	65
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	8	7	4	0
Auxiliary Signal Groups									8			
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	7	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	30	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0
Split [s]	11	21	0	12	22	0	11	20	20	12	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	7	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	10	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No	No	No	No	
Maximum Recall	No	No		No	No		No	No	No	No	No	
Pedestrian Recall	No	No		No	No		No	No	No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	R	L	C	R	L	C
C, Cycle Length [s]	65	65	65	65	65	65	65	65	65	65	65
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	4	33	33	7	36	36	7	8	8	1	2
g / C, Green / Cycle	0.06	0.51	0.51	0.11	0.56	0.56	0.10	0.12	0.12	0.02	0.03
(v / s)_i Volume / Saturation Flow Rate	0.03	0.17	0.17	0.08	0.11	0.10	0.05	0.01	0.06	0.01	0.01
s, saturation flow rate [veh/h]	1781	3560	1853	1781	3560	1589	3459	1870	1589	1781	1678
c, Capacity [veh/h]	115	1819	947	194	1976	882	361	219	186	33	51
d1, Uniform Delay [s]	29.34	9.37	9.37	28.32	7.30	7.22	27.58	25.69	27.16	31.62	30.98
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.38	0.48	0.92	6.60	0.24	0.47	1.02	0.15	2.41	4.52	3.69
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.42	0.33	0.33	0.78	0.21	0.19	0.49	0.08	0.54	0.28	0.33
d, Delay for Lane Group [s/veh]	31.71	9.85	10.29	34.92	7.54	7.69	28.59	25.84	29.58	36.14	34.68
Lane Group LOS	C	A	B	C	A	A	C	C	C	D	C
Critical Lane Group	No	No	Yes	Yes	No	No	No	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	0.71	1.82	2.01	2.36	0.99	0.86	1.29	0.23	1.52	0.18	0.30
50th-Percentile Queue Length [ft/ln]	17.84	45.55	50.36	58.90	24.69	21.39	32.17	5.85	38.08	4.39	7.62
95th-Percentile Queue Length [veh/ln]	1.28	3.28	3.63	4.24	1.78	1.54	2.32	0.42	2.74	0.32	0.55
95th-Percentile Queue Length [ft/ln]	32.11	81.99	90.65	106.02	44.43	38.50	57.91	10.53	68.54	7.90	13.71

Movement, Approach, & Intersection Results

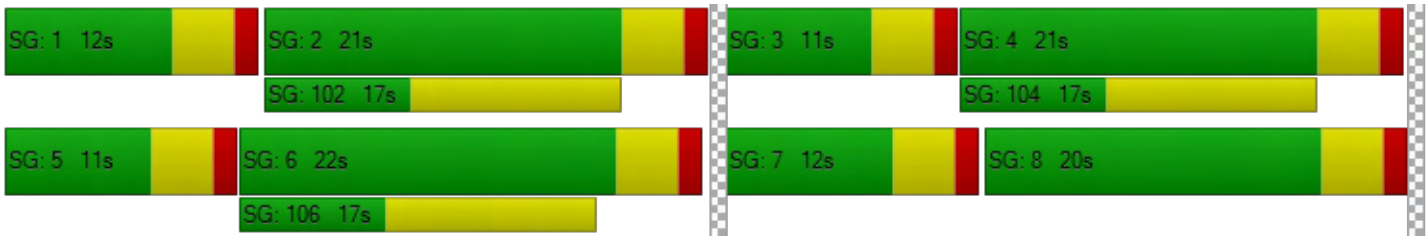
d_M, Delay for Movement [s/veh]	31.71	9.99	10.29	34.92	7.54	7.69	28.59	25.84	29.58	36.14	34.68	34.68
Movement LOS	C	A	B	C	A	A	C	C	C	D	C	C
d_A, Approach Delay [s/veh]	11.10			13.27			28.77			35.18		
Approach LOS	B			B			C			D		
d_I, Intersection Delay [s/veh]	14.80											
Intersection LOS	B											
Intersection V/C	0.423											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	22.43	22.43	22.43
l_p,int, Pedestrian LOS Score for Intersection	0.000	3.035	2.518	1.990
Crosswalk LOS	F	C	B	A
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	523	554	492	523
d_b, Bicycle Delay [s]	17.72	16.99	18.47	17.72
l_b,int, Bicycle LOS Score for Intersection	2.082	2.159	2.043	1.603
Bicycle LOS	B	B	B	A

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 6: I-10 WB Ramps (NS) at 20th Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	24.3
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.203

Intersection Setup

Name	I-10 WB Ramps		20th Ave		20th Ave	
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	1	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	90.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	No		No		No	

Volumes

Name	I-10 WB Ramps		20th Ave		20th Ave	
Base Volume Input [veh/h]	482	4	2	1	5	9
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	9	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	510	4	2	1	5	9
Peak Hour Factor	0.9250	0.9250	0.9250	0.9250	0.9250	0.9250
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	138	1	1	0	1	2
Total Analysis Volume [veh/h]	551	4	2	1	5	10
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	62
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-
Minimum Green [s]	7	0	7	0	7	7
Maximum Green [s]	30	0	30	0	30	30
Amber [s]	3.0	0.0	3.0	0.0	3.0	3.0
All red [s]	1.0	0.0	1.0	0.0	1.0	1.0
Split [s]	35	0	11	0	14	25
Vehicle Extension [s]	3.0	0.0	3.0	0.0	3.0	3.0
Walk [s]	7	0	7	0	0	7
Pedestrian Clearance [s]	10	0	10	0	0	10
Rest In Walk	No		No			No
I1, Start-Up Lost Time [s]	2.0	0.0	2.0	0.0	2.0	2.0
I2, Clearance Lost Time [s]	2.0	0.0	2.0	0.0	2.0	2.0
Minimum Recall	No		No		No	No
Maximum Recall	No		No		No	No
Pedestrian Recall	No		No		No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	C	L	C
C, Cycle Length [s]	62	62	62	62	62
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	13	13	36	1	41
g / C, Green / Cycle	0.21	0.21	0.59	0.01	0.66
(v / s)_i Volume / Saturation Flow Rate	0.16	0.00	0.00	0.00	0.00
s, saturation flow rate [veh/h]	3459	1589	1766	1781	3560
c, Capacity [veh/h]	726	334	1035	20	2355
d1, Uniform Delay [s]	23.08	19.45	5.34	30.47	3.57
k, delay calibration	0.11	0.11	0.50	0.11	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	1.66	0.01	0.01	6.28	0.00
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.76	0.01	0.00	0.25	0.00
d, Delay for Lane Group [s/veh]	24.75	19.47	5.35	36.74	3.58
Lane Group LOS	C	B	A	D	A
Critical Lane Group	Yes	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	3.69	0.04	0.01	0.11	0.02
50th-Percentile Queue Length [ft/ln]	92.30	1.11	0.35	2.65	0.40
95th-Percentile Queue Length [veh/ln]	6.65	0.08	0.03	0.19	0.03
95th-Percentile Queue Length [ft/ln]	166.15	2.00	0.64	4.78	0.71

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	24.75	19.47	5.35	5.35	36.74	3.58
Movement LOS	C	B	A	A	D	A
d_A, Approach Delay [s/veh]	24.71		5.35		14.63	
Approach LOS	C		A		B	
d_I, Intersection Delay [s/veh]	24.34					
Intersection LOS	C					
Intersection V/C	0.203					

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000
Crosswalk LOS	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	31.00	31.00	31.00
l_b,int, Bicycle LOS Score for Intersection	4.132	4.137	4.145
Bicycle LOS	D	D	D

Sequence

Ring 1	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 7: Little Morongo Rd (NS) at Pierson Blvd (EW)

Control Type:	All-way stop	Delay (sec / veh):	11.0
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.362

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			Pierson Blvd			Pierson Blvd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			45.00			50.00			50.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			Pierson Blvd			Pierson Blvd		
Base Volume Input [veh/h]	28	88	39	49	53	5	12	185	22	10	148	61
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	25	21	21	0	4	0	0	0	5	4	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	55	117	64	53	61	5	12	200	29	14	160	66
Peak Hour Factor	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	14	30	16	14	16	1	3	51	7	4	41	17
Total Analysis Volume [veh/h]	57	120	66	55	63	5	12	206	30	14	165	68
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	672	625	603	688	600	686
Degree of Utilization, x	0.36	0.20	0.36	0.04	0.30	0.10

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	1.65	0.73	1.64	0.14	1.24	0.33
95th-Percentile Queue Length [ft]	41.24	18.14	41.09	3.41	31.11	8.21
Approach Delay [s/veh]	11.36	10.16	11.55		10.48	
Approach LOS	B	B	B		B	
Intersection Delay [s/veh]	10.99					
Intersection LOS	B					

Intersection Level Of Service Report

Intersection 8: Little Morongo Rd (NS) at 14th Ave/2 Bunch Palms (EW)

Control Type:	All-way stop	Delay (sec / veh):	15.8
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.737

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			14th Ave			Two Bunch Palms Trail		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			30.00			45.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			14th Ave			Two Bunch Palms Trail		
Base Volume Input [veh/h]	14	167	203	45	108	3	0	11	4	114	9	69
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	67	61	0	13	0	0	0	0	12	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	15	244	276	48	127	3	0	11	4	133	9	73
Peak Hour Factor	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	4	65	73	13	34	1	0	3	1	35	2	19
Total Analysis Volume [veh/h]	16	259	293	51	135	3	0	12	4	141	10	77
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	771	657	573	522	631
Degree of Utilization, x	0.74	0.29	0.03	0.29	0.12

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	6.65	1.19	0.09	1.19	0.41
95th-Percentile Queue Length [ft]	166.36	29.70	2.15	29.72	10.36
Approach Delay [s/veh]	19.56	10.68	9.47	11.30	
Approach LOS	C	B	A	B	
Intersection Delay [s/veh]	15.84				
Intersection LOS	C				

Intersection Level Of Service Report
Intersection 9: Little Morongo Rd (NS) at 15th Ave (EW)

Control Type:	Two-way stop	Delay (sec / veh):	85.1
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.810

Intersection Setup

Name	Little Morongo Rd		Little Morongo Rd		15th Ave	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		No	

Volumes

Name	Little Morongo Rd		Little Morongo Rd		15th Ave	
Base Volume Input [veh/h]	384	0	0	226	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	52	25	0	285	128
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	399	52	25	235	285	128
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	105	14	7	62	75	34
Total Analysis Volume [veh/h]	420	55	26	247	300	135
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.02	0.00	0.81	0.22
d_M, Delay for Movement [s/veh]	0.00	0.00	8.39	0.00	85.08	81.24
Movement LOS	A	A	A	A	F	F
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.07	0.07	13.62	13.62
95th-Percentile Queue Length [ft/ln]	0.00	0.00	1.76	1.76	340.55	340.55
d_A, Approach Delay [s/veh]	0.00		0.80		83.89	
Approach LOS	A		A		F	
d_I, Intersection Delay [s/veh]	31.03					
Intersection LOS	F					

Intersection Level Of Service Report

Intersection 10: Little Morongo Rd (NS) at Dillon Rd (EW)

Control Type:	All-way stop	Delay (sec / veh):	24.6
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.858

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	1	0	0	1	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	205.00	100.00	100.00	146.00	100.00	100.00
Speed [mph]	30.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	0	1	2	71	1	84	199	183	0	0	132	102
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	124	0	161	30	0	0	0	0	22
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	1	2	201	1	251	245	198	0	0	142	132
Peak Hour Factor	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	1	57	0	72	70	56	0	0	40	38
Total Analysis Volume [veh/h]	0	1	2	229	1	286	279	226	0	0	162	151
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	486	601	484	520	499	524
Degree of Utilization, x	0.01	0.86	0.58	0.43	0.00	0.60

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.02	9.56	3.57	2.17	0.00	3.89
95th-Percentile Queue Length [ft]	0.47	238.91	89.35	54.35	0.00	97.15
Approach Delay [s/veh]	10.46	34.73	17.53		19.28	
Approach LOS	B	D	C		C	
Intersection Delay [s/veh]	24.56					
Intersection LOS	C					

Intersection Level Of Service Report
Intersection 11: Atlantic Ave (NS) at Dillon Rd (EW)

Control Type:	Two-way stop	Delay (sec / veh):	14.9
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.008

Intersection Setup

Name	Atlantic Ave		Dillon Rd		Dillon Rd	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		55.00		55.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		No	

Volumes

Name	Atlantic Ave		Dillon Rd		Dillon Rd	
Base Volume Input [veh/h]	3	2	3	276	250	1
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	124	22	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	3	2	3	422	292	1
Peak Hour Factor	0.9290	0.9290	0.9290	0.9290	0.9290	0.9290
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	1	1	114	79	0
Total Analysis Volume [veh/h]	3	2	3	454	314	1
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane	No		
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.00	0.00	0.00	0.00
d_M, Delay for Movement [s/veh]	14.94	10.05	7.90	0.00	0.00	0.00
Movement LOS	B	B	A	A	A	A
95th-Percentile Queue Length [veh/ln]	0.03	0.03	0.01	0.01	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.83	0.83	0.18	0.18	0.00	0.00
d_A, Approach Delay [s/veh]	12.98		0.05		0.00	
Approach LOS	B		A		A	
d_I, Intersection Delay [s/veh]	0.11					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 12: Palm Dr (NS) at Hacienda Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	22.2
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.694

Intersection Setup

Name	Palm Dr			Palm Dr			Hacienda Ave			Hacienda Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0
Pocket Length [ft]	110.00	100.00	100.00	90.00	100.00	100.00	70.00	100.00	100.00	80.00	100.00	100.00
Speed [mph]	35.00			35.00			45.00			40.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Hacienda Ave			Hacienda Ave		
Base Volume Input [veh/h]	84	880	69	112	541	26	40	101	76	170	126	97
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	8	21	12	0	4	0	0	0	2	2	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	97	955	85	119	578	28	43	107	83	182	134	103
Peak Hour Factor	0.9710	0.9710	0.9710	0.9710	0.9710	0.9710	0.9710	0.9710	0.9710	0.9710	0.9710	0.9710
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	25	246	22	31	149	7	11	28	21	47	35	27
Total Analysis Volume [veh/h]	100	984	88	123	595	29	44	110	85	187	138	106
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	65
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	11	21	0	11	21	0	11	21	0	12	22	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	C	L	C	C	L	C	R
C, Cycle Length [s]	65	65	65	65	65	65	65	65	65	65	65	65
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	6	28	28	6	28	28	4	7	7	8	11	11
g / C, Green / Cycle	0.09	0.43	0.43	0.10	0.44	0.44	0.06	0.10	0.10	0.12	0.17	0.17
(v / s)_i Volume / Saturation Flow Rate	0.06	0.29	0.29	0.07	0.17	0.17	0.02	0.05	0.06	0.11	0.07	0.07
s, saturation flow rate [veh/h]	1781	1870	1817	1781	1870	1840	1781	1870	1613	1781	1870	1589
c, Capacity [veh/h]	164	800	778	174	811	798	109	197	170	221	313	266
d1, Uniform Delay [s]	28.52	15.05	15.06	28.54	12.57	12.57	29.48	27.62	27.75	27.99	24.41	24.23
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	3.66	4.61	4.76	5.17	1.40	1.42	2.37	2.06	2.82	8.70	0.97	0.96
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.61	0.68	0.68	0.71	0.39	0.39	0.40	0.51	0.56	0.85	0.44	0.40
d, Delay for Lane Group [s/veh]	32.17	19.66	19.81	33.71	13.97	14.00	31.85	29.68	30.58	36.70	25.39	25.19
Lane Group LOS	C	B	B	C	B	B	C	C	C	D	C	C
Critical Lane Group	No	No	Yes	Yes	No	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	1.58	6.56	6.41	2.00	3.00	2.96	0.68	1.46	1.40	3.15	1.83	1.40
50th-Percentile Queue Length [ft/ln]	39.48	163.88	160.23	49.95	75.07	74.06	16.96	36.43	34.94	78.74	45.76	35.04
95th-Percentile Queue Length [veh/ln]	2.84	10.75	10.56	3.60	5.41	5.33	1.22	2.62	2.52	5.67	3.29	2.52
95th-Percentile Queue Length [ft/ln]	71.07	268.85	264.02	89.92	135.13	133.31	30.52	65.57	62.90	141.74	82.36	63.08

Movement, Approach, & Intersection Results

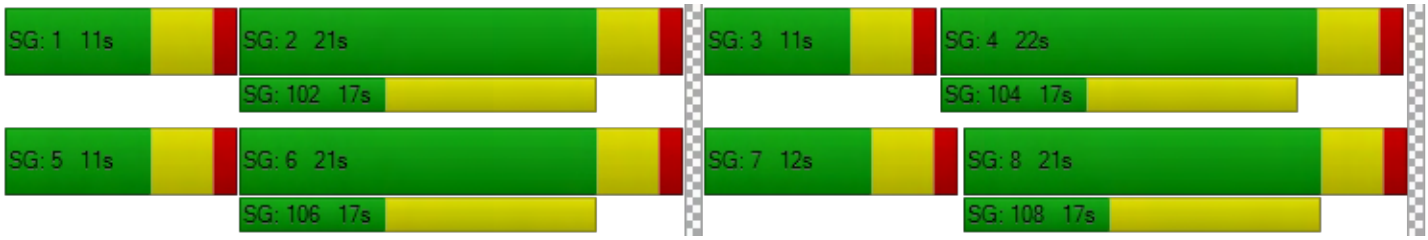
d_M, Delay for Movement [s/veh]	32.17	19.73	19.81	33.71	13.98	14.00	31.85	29.75	30.58	36.70	25.39	25.19
Movement LOS	C	B	B	C	B	B	C	C	C	D	C	C
d_A, Approach Delay [s/veh]	20.80			17.23			30.43			30.25		
Approach LOS	C			B			C			C		
d_I, Intersection Delay [s/veh]	22.23											
Intersection LOS	C											
Intersection V/C	0.694											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	22.43	22.43	22.43	22.43
l_p,int, Pedestrian LOS Score for Intersection	2.746	2.710	2.298	2.477
Crosswalk LOS	B	B	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	523	523	523	554
d_b, Bicycle Delay [s]	17.72	17.72	17.72	16.99
l_b,int, Bicycle LOS Score for Intersection	2.527	2.176	1.757	2.271
Bicycle LOS	B	B	A	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 13: Palm Dr (NS) at Ironwood Dr (EW)

Control Type:	Signalized	Delay (sec / veh):	14.4
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.541

Intersection Setup

Name	Palm Dr			Palm Dr			Ironwood Dr			Ironwood Dr		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0
Pocket Length [ft]	117.00	100.00	100.00	100.00	100.00	100.00	58.00	100.00	100.00	60.00	100.00	100.00
Speed [mph]	35.00			35.00			35.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Ironwood Dr			Ironwood Dr		
Base Volume Input [veh/h]	48	1014	76	27	705	37	54	36	20	49	29	46
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	8	41	12	0	8	0	0	0	2	2	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	58	1096	91	28	741	38	56	37	23	53	30	48
Peak Hour Factor	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	15	286	24	7	193	10	15	10	6	14	8	13
Total Analysis Volume [veh/h]	60	1143	95	29	773	40	58	39	24	55	31	50
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	80
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	11	25	0	11	25	0	11	26	0	18	33	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	C	L	C	L	C
C, Cycle Length [s]	80	80	80	80	80	80	80	80	80	80
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	5	50	50	3	48	48	5	6	5	6
g / C, Green / Cycle	0.07	0.62	0.62	0.04	0.60	0.60	0.06	0.08	0.06	0.07
(v / s)_i Volume / Saturation Flow Rate	0.03	0.34	0.34	0.02	0.22	0.22	0.03	0.04	0.03	0.05
s, saturation flow rate [veh/h]	1781	1870	1820	1781	1870	1838	1781	1752	1781	1686
c, Capacity [veh/h]	118	1155	1124	77	1113	1094	116	133	113	126
d1, Uniform Delay [s]	36.21	8.81	8.82	37.32	8.42	8.42	36.25	35.51	36.31	36.09
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	3.39	1.83	1.89	3.01	0.94	0.96	3.33	2.58	3.23	5.44
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.51	0.54	0.54	0.38	0.37	0.37	0.50	0.47	0.49	0.65
d, Delay for Lane Group [s/veh]	39.60	10.64	10.72	40.33	9.36	9.38	39.57	38.10	39.54	41.53
Lane Group LOS	D	B	B	D	A	A	D	D	D	D
Critical Lane Group	No	No	Yes	Yes	No	No	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	1.21	5.63	5.52	0.60	3.37	3.31	1.17	1.24	1.11	1.68
50th-Percentile Queue Length [ft/ln]	30.23	140.68	137.96	15.02	84.16	82.87	29.22	30.92	27.72	41.97
95th-Percentile Queue Length [veh/ln]	2.18	9.52	9.37	1.08	6.06	5.97	2.10	2.23	2.00	3.02
95th-Percentile Queue Length [ft/ln]	54.42	237.94	234.27	27.04	151.49	149.16	52.60	55.66	49.89	75.55

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	39.60	10.67	10.72	40.33	9.37	9.38	39.57	38.10	38.10	39.54	41.53	41.53
Movement LOS	D	B	B	D	A	A	D	D	D	D	D	D
d_A, Approach Delay [s/veh]	12.01			10.44			38.80			40.73		
Approach LOS	B			B			D			D		
d_I, Intersection Delay [s/veh]	14.44											
Intersection LOS	B											
Intersection V/C	0.541											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	29.76	29.76	29.76	29.76
l_p,int, Pedestrian LOS Score for Intersection	2.854	2.769	2.029	2.047
Crosswalk LOS	C	C	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	525	525	550	725
d_b, Bicycle Delay [s]	21.76	21.76	21.03	16.26
l_b,int, Bicycle LOS Score for Intersection	2.630	2.254	1.759	1.784
Bicycle LOS	B	B	A	A

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



Intersection Level Of Service Report

Intersection 14: Palm Dr (NS) at Two Bunch Palms Trail (EW)

Control Type:	Signalized	Delay (sec / veh):	32.5
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.863

Intersection Setup

Name	Palm Dr			Palm Dr			Two Bunch Palms Trail			Two Bunch Palms Trail		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	1
Pocket Length [ft]	96.00	100.00	100.00	101.00	100.00	100.00	95.00	100.00	100.00	70.00	100.00	130.00
Speed [mph]	40.00			35.00			40.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Two Bunch Palms Trail			Two Bunch Palms Trail		
Base Volume Input [veh/h]	180	1009	150	103	656	21	98	161	228	248	129	93
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	21	0	0	4	8	40	21	0	0	4	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	191	1091	159	109	700	30	144	192	242	263	141	99
Peak Hour Factor	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	49	282	41	28	181	8	37	50	63	68	36	26
Total Analysis Volume [veh/h]	198	1128	164	113	724	31	149	199	250	272	146	102
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	80
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	15	21	0	20	26	0	18	21	0	18	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	80	80	80	80	80	80	80	80	80	80	80	80
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	11	29	29	7	25	25	8	15	15	14	20	20
g / C, Green / Cycle	0.13	0.36	0.36	0.08	0.31	0.31	0.11	0.18	0.18	0.17	0.25	0.25
(v / s)_i Volume / Saturation Flow Rate	0.11	0.32	0.10	0.06	0.20	0.02	0.08	0.11	0.16	0.15	0.08	0.06
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	238	1281	572	148	1102	492	189	341	290	311	470	399
d1, Uniform Delay [s]	33.87	24.06	18.33	35.98	24.00	19.50	34.97	29.99	31.80	32.24	24.39	24.03
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	7.37	8.88	1.26	7.78	3.07	0.25	7.12	1.58	7.44	7.63	0.37	0.33
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.83	0.88	0.29	0.76	0.66	0.06	0.79	0.58	0.86	0.87	0.31	0.26
d, Delay for Lane Group [s/veh]	41.24	32.94	19.59	43.77	27.07	19.75	42.09	31.57	39.25	39.87	24.77	24.37
Lane Group LOS	D	C	B	D	C	B	D	C	D	D	C	C
Critical Lane Group	No	Yes	No	Yes	No	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	4.04	10.57	2.19	2.41	6.03	0.42	3.07	3.46	5.01	5.56	2.19	1.51
50th-Percentile Queue Length [ft/ln]	101.05	264.15	54.77	60.22	150.70	10.51	76.70	86.43	125.15	138.99	54.84	37.83
95th-Percentile Queue Length [veh/ln]	7.28	15.90	3.94	4.34	10.05	0.76	5.52	6.22	8.68	9.43	3.95	2.72
95th-Percentile Queue Length [ft/ln]	181.89	397.43	98.58	108.40	251.36	18.92	138.07	155.58	216.89	235.67	98.72	68.10

Movement, Approach, & Intersection Results

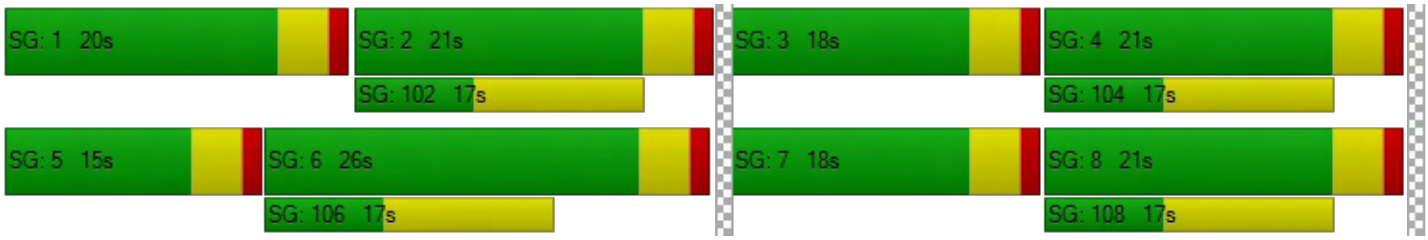
d_M, Delay for Movement [s/veh]	41.24	32.94	19.59	43.77	27.07	19.75	42.09	31.57	39.25	39.87	24.77	24.37
Movement LOS	D	C	B	D	C	B	D	C	D	D	C	C
d_A, Approach Delay [s/veh]	32.58			28.98			37.40			32.59		
Approach LOS	C			C			D			C		
d_I, Intersection Delay [s/veh]	32.51											
Intersection LOS	C											
Intersection V/C	0.863											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	29.76	29.76	29.76	29.76
l_p,int, Pedestrian LOS Score for Intersection	3.039	2.872	2.546	2.408
Crosswalk LOS	C	C	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	425	550	425	425
d_b, Bicycle Delay [s]	24.81	21.03	24.81	24.81
l_b,int, Bicycle LOS Score for Intersection	2.789	2.276	2.546	2.418
Bicycle LOS	C	B	B	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 15: Palm Dr (NS) at Camino Campanero (EW)

Control Type:	Signalized	Delay (sec / veh):	11.9
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.746

Intersection Setup

Name	Palm Dr		Palm Dr		Camino Campanero	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	1	0	0	1
Pocket Length [ft]	100.00	100.00	80.00	100.00	100.00	87.00
Speed [mph]	45.00		40.00		25.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		No		Yes	

Volumes

Name	Palm Dr		Palm Dr		Camino Campanero	
Base Volume Input [veh/h]	1268	34	138	884	17	167
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	21	12	0	4	2	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1340	47	144	923	20	174
Peak Hour Factor	0.9490	0.9490	0.9490	0.9490	0.9490	0.9490
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	353	12	38	243	5	46
Total Analysis Volume [veh/h]	1412	50	152	973	21	183
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Permissive	Permissive	Protected	Permissive	Split	Split
Signal group	2	0	1	6	7	0
Auxiliary Signal Groups						
Lead / Lag	-	-	Lead	-	Lead	-
Minimum Green [s]	7	0	7	7	7	0
Maximum Green [s]	30	0	30	30	30	0
Amber [s]	3.0	0.0	3.0	3.0	3.0	0.0
All red [s]	1.0	0.0	1.0	1.0	1.0	0.0
Split [s]	21	0	18	39	21	0
Vehicle Extension [s]	3.0	0.0	3.0	3.0	3.0	0.0
Walk [s]	7	0	0	7	7	0
Pedestrian Clearance [s]	10	0	0	10	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	0.0	2.0	2.0	2.0	0.0
Minimum Recall	No		No	No	No	
Maximum Recall	No		No	No	No	
Pedestrian Recall	No		No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	R	L	C	L	R
C, Cycle Length [s]	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	33	33	7	43	9	9
g / C, Green / Cycle	0.54	0.54	0.11	0.72	0.15	0.15
(v / s)_i Volume / Saturation Flow Rate	0.40	0.03	0.09	0.27	0.01	0.12
s, saturation flow rate [veh/h]	3560	1589	1781	3560	1781	1589
c, Capacity [veh/h]	1929	861	199	2564	262	234
d1, Uniform Delay [s]	10.46	6.52	25.95	3.24	22.15	24.74
k, delay calibration	0.50	0.50	0.11	0.50	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.50	0.13	5.98	0.43	0.13	5.70
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.73	0.06	0.76	0.38	0.08	0.78
d, Delay for Lane Group [s/veh]	12.96	6.65	31.92	3.67	22.28	30.44
Lane Group LOS	B	A	C	A	C	C
Critical Lane Group	Yes	No	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	5.41	0.24	2.24	1.04	0.26	2.77
50th-Percentile Queue Length [ft/ln]	135.27	6.00	56.05	25.92	6.40	69.19
95th-Percentile Queue Length [veh/ln]	9.23	0.43	4.04	1.87	0.46	4.98
95th-Percentile Queue Length [ft/ln]	230.64	10.80	100.89	46.66	11.51	124.55

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	12.96	6.65	31.92	3.67	22.28	30.44
Movement LOS	B	A	C	A	C	C
d_A, Approach Delay [s/veh]	12.74		7.49		29.60	
Approach LOS	B		A		C	
d_I, Intersection Delay [s/veh]	11.86					
Intersection LOS	B					
Intersection V/C	0.746					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	0.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	20.01	0.00	20.01
l_p,int, Pedestrian LOS Score for Intersection	2.996	0.000	2.028
Crosswalk LOS	C	F	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	30.00	30.00	30.00
l_b,int, Bicycle LOS Score for Intersection	5.339	5.061	4.132
Bicycle LOS	F	F	D

Sequence

Ring 1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 16: Palm Dr (NS) at Camino Aventura (EW)

Control Type:	Two-way stop	Delay (sec / veh):	30.4
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.165

Intersection Setup

Name	Palm Dr		Palm Dr		Camino Aventura	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	1	0	0	0
Pocket Length [ft]	100.00	100.00	200.00	100.00	100.00	100.00
Speed [mph]	45.00		45.00		40.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		Yes	

Volumes

Name	Palm Dr		Palm Dr		Camino Aventura	
Base Volume Input [veh/h]	1279	90	61	827	24	61
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	33	12	0	6	2	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1363	106	63	866	27	63
Peak Hour Factor	0.9680	0.9680	0.9680	0.9680	0.9680	0.9680
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	352	27	16	224	7	16
Total Analysis Volume [veh/h]	1408	110	65	895	28	65
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			Yes
Number of Storage Spaces in Median	0	0	2

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.15	0.01	0.16	0.17
d_M, Delay for Movement [s/veh]	0.00	0.00	14.70	0.00	30.36	16.44
Movement LOS	A	A	B	A	D	C
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.52	0.00	0.57	0.61
95th-Percentile Queue Length [ft/ln]	0.00	0.00	13.00	0.00	14.35	15.27
d_A, Approach Delay [s/veh]	0.00		1.00		20.63	
Approach LOS	A		A		C	
d_I, Intersection Delay [s/veh]	1.12					
Intersection LOS	D					

Intersection Level Of Service Report
Intersection 17: Palm Dr (NS) at Dillon Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	27.2
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.798

Intersection Setup

Name	Palm Dr			Palm Dr			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	1	1	0	1
Pocket Length [ft]	150.00	100.00	100.00	150.00	100.00	100.00	155.00	100.00	155.00	140.00	100.00	140.00
Speed [mph]	60.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	180	1196	248	82	671	73	113	169	111	156	107	103
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	9	0	0	0	0	8	45	29	50	0	5	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	196	1244	258	85	698	84	163	205	165	162	116	107
Peak Hour Factor	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	52	333	69	23	187	22	44	55	44	43	31	29
Total Analysis Volume [veh/h]	210	1330	276	91	747	90	174	219	176	173	124	114
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	80
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	24	35	0	11	22	0	13	21	0	13	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	80	80	80	80	80	80	80	80	80	80	80	80
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	11	37	37	6	32	32	9	12	12	9	12	12
g / C, Green / Cycle	0.14	0.47	0.47	0.08	0.40	0.40	0.11	0.15	0.15	0.11	0.15	0.15
(v / s)_i Volume / Saturation Flow Rate	0.12	0.37	0.17	0.05	0.21	0.06	0.10	0.12	0.11	0.10	0.07	0.07
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	256	1654	738	138	1417	633	202	272	231	202	272	231
d1, Uniform Delay [s]	33.35	18.36	13.92	35.99	18.39	15.40	34.96	33.17	32.93	34.94	31.36	31.54
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	6.45	4.27	1.45	5.33	1.41	0.47	10.39	5.53	5.10	10.07	1.19	1.62
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.82	0.80	0.37	0.66	0.53	0.14	0.86	0.80	0.76	0.86	0.46	0.49
d, Delay for Lane Group [s/veh]	39.79	22.63	15.37	41.32	19.79	15.87	45.35	38.70	38.03	45.00	32.55	33.16
Lane Group LOS	D	C	B	D	B	B	D	D	D	D	C	C
Critical Lane Group	No	Yes	No	Yes	No	No	No	Yes	No	Yes	No	No
50th-Percentile Queue Length [veh/ln]	3.99	9.10	2.85	1.79	4.70	0.97	3.61	4.14	3.30	3.58	2.08	1.95
50th-Percentile Queue Length [ft/ln]	99.69	227.42	71.27	44.71	117.38	24.37	90.34	103.46	82.40	89.40	52.04	48.65
95th-Percentile Queue Length [veh/ln]	7.18	14.04	5.13	3.22	8.25	1.75	6.50	7.45	5.93	6.44	3.75	3.50
95th-Percentile Queue Length [ft/ln]	179.44	351.07	128.29	80.49	206.22	43.86	162.62	186.23	148.32	160.93	93.68	87.57

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	39.79	22.63	15.37	41.32	19.79	15.87	45.35	38.70	38.03	45.00	32.55	33.16
Movement LOS	D	C	B	D	B	B	D	D	D	D	C	C
d_A, Approach Delay [s/veh]	23.51			21.52			40.52			37.96		
Approach LOS	C			C			D			D		
d_I, Intersection Delay [s/veh]	27.21											
Intersection LOS	C											
Intersection V/C	0.798											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	29.76	29.76	29.76	29.76
l_p,int, Pedestrian LOS Score for Intersection	3.398	3.237	2.568	2.570
Crosswalk LOS	C	C	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	775	450	425	425
d_b, Bicycle Delay [s]	15.01	24.03	24.81	24.81
l_b,int, Bicycle LOS Score for Intersection	3.058	2.325	2.498	2.238
Bicycle LOS	C	B	B	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 18: Palm Dr (NS) at Varner Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	7.0
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.667

Intersection Setup

Name	Palm Dr			Palm Dr			Varner Rd			Varner Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	0	0	0	0	0	0
Pocket Length [ft]	173.00	100.00	100.00	195.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	60.00			60.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Varner Rd			Varner Rd		
Base Volume Input [veh/h]	1	1618	36	20	894	0	0	1	1	35	1	29
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	6	0	17	33	0	0	0	0	0	0	3
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1	1722	38	38	981	0	0	1	1	37	1	34
Peak Hour Factor	0.9320	0.9320	0.9320	0.9320	0.9320	0.9320	0.9320	0.9320	0.9320	0.9320	0.9320	0.9320
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	462	10	10	263	0	0	0	0	10	0	9
Total Analysis Volume [veh/h]	1	1848	41	41	1053	0	0	1	1	40	1	36
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	105
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	5	2	0	1	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	-	-	-	-	-	-
Minimum Green [s]	7	7	0	7	7	0	0	7	0	0	7	0
Maximum Green [s]	30	30	0	30	30	0	0	30	0	0	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	12	73	0	11	72	0	0	21	0	0	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall	No	No		No	No			No			No	
Maximum Recall	No	No		No	No			No			No	
Pedestrian Recall	No	No		No	No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	C	C
C, Cycle Length [s]	105	105	105	105	105	105	105	105
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	0	82	82	5	86	86	6	6
g / C, Green / Cycle	0.00	0.78	0.78	0.05	0.82	0.82	0.06	0.06
(v / s)_i Volume / Saturation Flow Rate	0.00	0.52	0.03	0.02	0.30	0.00	0.00	0.05
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1206	1588
c, Capacity [veh/h]	4	2770	1237	84	2929	1307	107	148
d1, Uniform Delay [s]	52.27	5.38	2.65	48.81	2.35	0.00	46.37	48.54
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	24.31	1.29	0.05	4.39	0.34	0.00	0.07	2.79
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.23	0.67	0.03	0.49	0.36	0.00	0.02	0.52
d, Delay for Lane Group [s/veh]	76.58	6.67	2.70	53.19	2.69	0.00	46.44	51.32
Lane Group LOS	E	A	A	D	A	A	D	D
Critical Lane Group	No	Yes	No	Yes	No	No	No	Yes
50th-Percentile Queue Length [veh/ln]	0.05	4.73	0.11	1.09	0.82	0.00	0.05	2.00
50th-Percentile Queue Length [ft/ln]	1.36	118.22	2.75	27.26	20.40	0.00	1.22	50.12
95th-Percentile Queue Length [veh/ln]	0.10	8.29	0.20	1.96	1.47	0.00	0.09	3.61
95th-Percentile Queue Length [ft/ln]	2.46	207.37	4.94	49.07	36.72	0.00	2.20	90.22

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	76.58	6.67	2.70	53.19	2.69	0.00	46.44	46.44	46.44	51.32	51.32	51.32
Movement LOS	E	A	A	D	A	A	D	D	D	D	D	D
d_A, Approach Delay [s/veh]	6.62			4.58			46.44			51.32		
Approach LOS	A			A			D			D		
d_I, Intersection Delay [s/veh]	7.04											
Intersection LOS	A											
Intersection V/C	0.667											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	42.08	42.08	42.08
l_p,int, Pedestrian LOS Score for Intersection	0.000	3.431	1.726	1.865
Crosswalk LOS	F	C	A	A
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	1314	1295	324	324
d_b, Bicycle Delay [s]	6.17	6.52	36.88	36.88
l_b,int, Bicycle LOS Score for Intersection	3.119	2.462	1.563	1.687
Bicycle LOS	C	B	A	A

Sequence

Ring 1	1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



DHS 109

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Scenario 1 Existing Plus Ambient (2021) Plus Project
5/17/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
3	Indian Canyon Dr (NS) at Dillon Rd (EW)	Signalized	HCM 6th Edition	EB Left	0.861	33.0	C
9	Little Morongo Rd (NS) at 15th Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.545	5.0	A
14	Palm Dr (NS) at Two Bunch Palms Trail (EW)	Signalized	HCM 6th Edition	WB Left	1.016	36.6	D
17	Palm Dr (NS) at Dillon Rd (EW)	Signalized	HCM 6th Edition	NB Left	1.022	41.6	D

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 3: Indian Canyon Dr (NS) at Dillon Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	33.0
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.861

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			No			No			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	16	193	119	17	410	16	4	78	50	346	72	18
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	142	18	0	0	0	18	0	24	3	2
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	17	201	266	36	426	17	4	99	52	384	78	21
Peak Hour Factor	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	5	56	74	10	119	5	1	28	14	107	22	6
Total Analysis Volume [veh/h]	19	224	297	40	475	19	4	110	58	428	87	23
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	70
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	11	25	0	11	25	0	11	12	0	22	23	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	L	C	L	C	L	C
C, Cycle Length [s]	70	70	70	70	70	70	70	70
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	2	24	4	26	1	8	18	25
g / C, Green / Cycle	0.03	0.35	0.05	0.37	0.01	0.11	0.26	0.36
(v / s)_i Volume / Saturation Flow Rate	0.01	0.31	0.02	0.27	0.00	0.10	0.24	0.06
s, saturation flow rate [veh/h]	1781	1699	1781	1857	1781	1763	1781	1803
c, Capacity [veh/h]	57	591	98	689	15	197	458	650
d1, Uniform Delay [s]	33.21	21.51	32.02	18.89	34.56	30.58	25.48	15.28
k, delay calibration	0.11	0.50	0.11	0.50	0.11	0.11	0.13	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	3.38	17.14	2.69	6.30	9.24	9.93	10.69	0.12
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.33	0.88	0.41	0.72	0.27	0.85	0.94	0.17
d, Delay for Lane Group [s/veh]	36.59	38.65	34.71	25.19	43.80	40.51	36.18	15.40
Lane Group LOS	D	D	C	C	D	D	D	B
Critical Lane Group	No	Yes	Yes	No	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	0.34	9.34	0.66	6.75	0.10	3.00	7.24	1.01
50th-Percentile Queue Length [ft/ln]	8.46	233.56	16.54	168.71	2.49	75.08	181.02	25.14
95th-Percentile Queue Length [veh/ln]	0.61	14.36	1.19	11.01	0.18	5.41	11.65	1.81
95th-Percentile Queue Length [ft/ln]	15.22	358.88	29.78	275.21	4.48	135.14	291.34	45.25

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	36.59	38.65	38.65	34.71	25.19	25.19	43.80	40.51	40.51	36.18	15.40	15.40
Movement LOS	D	D	D	C	C	C	D	D	D	D	B	B
d_A, Approach Delay [s/veh]	38.58			25.90			40.58			31.93		
Approach LOS	D			C			D			C		
d_I, Intersection Delay [s/veh]	32.97											
Intersection LOS	C											
Intersection V/C	0.861											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000	0.000
Crosswalk LOS	F	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	600	600	229	543
d_b, Bicycle Delay [s]	17.15	17.15	27.46	18.58
l_b,int, Bicycle LOS Score for Intersection	2.451	2.441	1.843	2.447
Bicycle LOS	B	B	A	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 9: Little Morongo Rd (NS) at 15th Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	5.0
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.545

Intersection Setup

Name	Little Morongo Rd		Little Morongo Rd		15th Ave	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	No		No		No	

Volumes

Name	Little Morongo Rd		Little Morongo Rd		15th Ave	
Base Volume Input [veh/h]	205	0	0	413	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	316	143	0	50	19
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	213	316	143	430	50	19
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	56	83	38	113	13	5
Total Analysis Volume [veh/h]	224	333	151	453	53	20
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	2	0	0	6	7	0
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-
Minimum Green [s]	7	0	0	7	7	0
Maximum Green [s]	30	0	0	30	30	0
Amber [s]	3.0	0.0	0.0	3.0	3.0	0.0
All red [s]	1.0	0.0	0.0	1.0	1.0	0.0
Split [s]	48	0	0	48	12	0
Vehicle Extension [s]	3.0	0.0	0.0	3.0	3.0	0.0
Walk [s]	7	0	0	7	7	0
Pedestrian Clearance [s]	10	0	0	10	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
Minimum Recall	No			No	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	C	C
C, Cycle Length [s]	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	2.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00
g_i, Effective Green Time [s]	47	47	5
g / C, Green / Cycle	0.78	0.78	0.08
(v / s)_i Volume / Saturation Flow Rate	0.33	0.43	0.04
s, saturation flow rate [veh/h]	1692	1405	1724
c, Capacity [veh/h]	1324	1175	145
d1, Uniform Delay [s]	2.11	2.25	26.31
k, delay calibration	0.50	0.50	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00
d2, Incremental Delay [s]	0.98	1.61	2.71
d3, Initial Queue Delay [s]	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.42	0.51	0.50
d, Delay for Lane Group [s/veh]	3.09	3.86	29.02
Lane Group LOS	A	A	C
Critical Lane Group	No	Yes	Yes
50th-Percentile Queue Length [veh/ln]	0.96	1.37	1.05
50th-Percentile Queue Length [ft/ln]	24.02	34.28	26.36
95th-Percentile Queue Length [veh/ln]	1.73	2.47	1.90
95th-Percentile Queue Length [ft/ln]	43.24	61.71	47.45

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	3.09	3.09	3.86	3.86	29.02	29.02
Movement LOS	A	A	A	A	C	C
d_A, Approach Delay [s/veh]	3.09		3.86		29.02	
Approach LOS	A		A		C	
d_I, Intersection Delay [s/veh]	5.00					
Intersection LOS	A					
Intersection V/C	0.545					

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000
Crosswalk LOS	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	30.00	30.00	30.00
l_b,int, Bicycle LOS Score for Intersection	5.051	5.129	4.253
Bicycle LOS	F	F	E

Sequence

Ring 1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report

Intersection 14: Palm Dr (NS) at Two Bunch Palms Trail (EW)

Control Type:	Signalized	Delay (sec / veh):	36.6
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.016

Intersection Setup

Name	Palm Dr			Palm Dr			Two Bunch Palms Trail			Two Bunch Palms Trail		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	1
Pocket Length [ft]	96.00	100.00	100.00	101.00	100.00	100.00	95.00	100.00	100.00	70.00	100.00	130.00
Speed [mph]	40.00			35.00			40.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Two Bunch Palms Trail			Two Bunch Palms Trail		
Base Volume Input [veh/h]	181	594	188	64	885	24	40	182	373	259	139	45
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	3	0	0	23	46	6	3	0	0	23	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	192	633	200	68	962	71	49	196	395	275	171	48
Peak Hour Factor	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	56	185	59	20	282	21	14	57	116	81	50	14
Total Analysis Volume [veh/h]	225	741	234	80	1126	83	57	230	463	322	200	56
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	85
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	8	7	4	0
Auxiliary Signal Groups									5,8			
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	7	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	30	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0
Split [s]	16	25	0	19	28	0	11	21	21	20	30	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	7	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	10	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No	No	No	No	
Maximum Recall	No	No		No	No		No	No	No	No	No	
Pedestrian Recall	No	No		No	No		No	No	No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	85	85	85	85	85	85	85	85	85	85	85	85
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	0.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	12	34	34	6	28	28	5	13	29	16	24	24
g / C, Green / Cycle	0.14	0.40	0.40	0.07	0.33	0.33	0.06	0.15	0.34	0.19	0.28	0.28
(v / s)_i Volume / Saturation Flow Rate	0.13	0.21	0.15	0.04	0.32	0.05	0.03	0.12	0.29	0.18	0.11	0.04
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	252	1417	633	127	1166	521	111	289	545	336	525	446
d1, Uniform Delay [s]	35.92	19.49	18.10	38.48	28.17	20.32	38.69	34.73	25.94	34.25	24.69	22.85
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.32	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	10.46	1.38	1.66	5.09	19.24	0.65	3.63	4.99	10.43	15.04	0.46	0.13
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.89	0.52	0.37	0.63	0.97	0.16	0.51	0.80	0.85	0.96	0.38	0.13
d, Delay for Lane Group [s/veh]	46.38	20.87	19.76	43.57	47.41	20.97	42.32	39.71	36.36	49.29	25.15	22.98
Lane Group LOS	D	C	B	D	D	C	D	D	D	D	C	C
Critical Lane Group	Yes	No	No	No	Yes	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	5.10	5.36	3.28	1.76	13.64	1.21	1.22	4.77	9.55	7.72	3.18	0.82
50th-Percentile Queue Length [ft/ln]	127.50	134.01	81.89	43.97	340.93	30.34	30.54	119.19	238.72	193.03	79.41	20.54
95th-Percentile Queue Length [veh/ln]	8.80	9.16	5.90	3.17	19.69	2.18	2.20	8.35	14.62	12.28	5.72	1.48
95th-Percentile Queue Length [ft/ln]	220.09	228.93	147.41	79.15	492.34	54.61	54.97	208.71	365.42	306.95	142.93	36.97

Movement, Approach, & Intersection Results

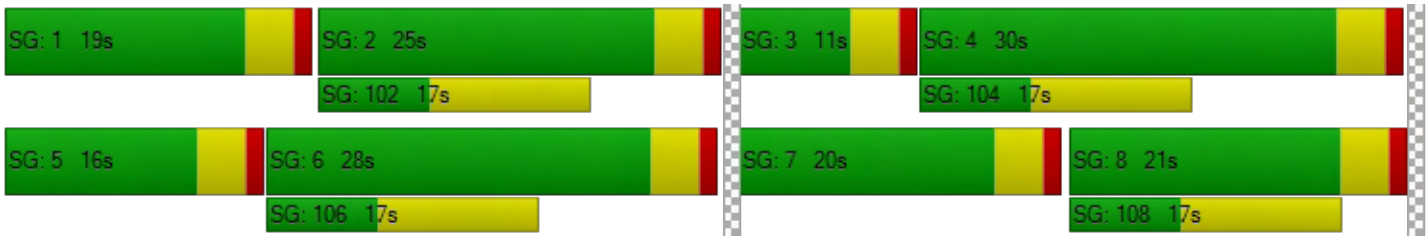
d_M, Delay for Movement [s/veh]	46.38	20.87	19.76	43.57	47.41	20.97	42.32	39.71	36.36	49.29	25.15	22.98
Movement LOS	D	C	B	D	D	C	D	D	D	D	C	C
d_A, Approach Delay [s/veh]	25.44			45.47			37.84			38.39		
Approach LOS	C			D			D			D		
d_I, Intersection Delay [s/veh]	36.60											
Intersection LOS	D											
Intersection V/C	1.016											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	32.21	32.21	32.21	32.21
l_p,int, Pedestrian LOS Score for Intersection	3.123	2.856	2.623	2.447
Crosswalk LOS	C	C	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	494	565	400	612
d_b, Bicycle Delay [s]	24.09	21.89	27.20	20.48
l_b,int, Bicycle LOS Score for Intersection	2.550	2.623	2.797	2.513
Bicycle LOS	B	B	C	B

Sequence

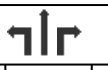
Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 17: Palm Dr (NS) at Dillon Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	41.6
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.022

Intersection Setup

Name	Palm Dr			Palm Dr			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	1	1	0	1
Pocket Length [ft]	150.00	100.00	100.00	150.00	100.00	100.00	155.00	100.00	155.00	140.00	100.00	140.00
Speed [mph]	60.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	116	510	44	21	1220	52	50	67	262	338	215	59
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	55	0	0	0	0	51	7	5	9	0	32	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	176	530	46	22	1269	105	59	75	281	352	256	61
Peak Hour Factor	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	48	145	13	6	347	29	16	21	77	96	70	17
Total Analysis Volume [veh/h]	193	580	50	24	1388	115	65	82	307	385	280	67
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	95
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	8	7	4	0
Auxiliary Signal Groups									5,8			
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	7	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	30	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0
Split [s]	15	28	0	20	33	0	21	21	21	26	26	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	7	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	10	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No	No	No	No	
Maximum Recall	No	No		No	No		No	No	No	No	No	
Pedestrian Recall	No	No		No	No		No	No	No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	95	95	95	95	95	95	95	95	95	95	95	95
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	0.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	11	45	45	3	37	37	6	9	24	22	25	25
g / C, Green / Cycle	0.12	0.47	0.47	0.04	0.39	0.39	0.06	0.09	0.25	0.23	0.26	0.26
(v / s)_i Volume / Saturation Flow Rate	0.11	0.16	0.03	0.01	0.39	0.07	0.04	0.04	0.19	0.22	0.15	0.04
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	207	1677	749	64	1391	621	110	175	400	412	492	418
d1, Uniform Delay [s]	41.67	15.90	13.74	44.83	28.96	19.05	43.49	40.91	33.02	35.85	30.37	26.96
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.17	0.22	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	16.55	0.57	0.17	3.61	23.66	0.66	5.02	1.96	4.72	17.18	1.04	0.18
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.93	0.35	0.07	0.38	1.00	0.19	0.59	0.47	0.77	0.93	0.57	0.16
d, Delay for Lane Group [s/veh]	58.22	16.47	13.91	48.44	52.61	19.70	48.51	42.86	37.73	53.03	31.41	27.14
Lane Group LOS	E	B	B	D	D	B	D	D	D	D	C	C
Critical Lane Group	Yes	No	No	No	Yes	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	5.09	3.49	0.54	0.59	18.30	1.61	1.55	1.80	6.52	9.96	5.22	1.10
50th-Percentile Queue Length [ft/ln]	127.16	87.37	13.42	14.65	457.46	40.24	38.87	45.09	162.91	249.03	130.50	27.48
95th-Percentile Queue Length [veh/ln]	8.79	6.29	0.97	1.06	25.31	2.90	2.80	3.25	10.70	15.14	8.97	1.98
95th-Percentile Queue Length [ft/ln]	219.63	157.27	24.16	26.38	632.85	72.44	69.97	81.17	267.58	378.44	224.18	49.47

Movement, Approach, & Intersection Results

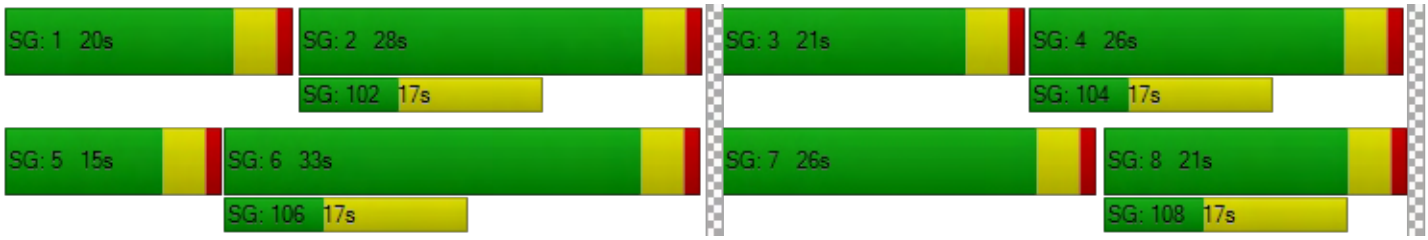
d_M, Delay for Movement [s/veh]	58.22	16.47	13.91	48.44	52.61	19.70	48.51	42.86	37.73	53.03	31.41	27.14
Movement LOS	E	B	B	D	D	B	D	D	D	D	C	C
d_A, Approach Delay [s/veh]	26.10			50.07			40.20			42.39		
Approach LOS	C			D			D			D		
d_I, Intersection Delay [s/veh]	41.63											
Intersection LOS	D											
Intersection V/C	1.022											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	37.14	37.14	37.14	37.14
l_p,int, Pedestrian LOS Score for Intersection	3.405	3.168	2.599	2.530
Crosswalk LOS	C	C	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	505	611	358	463
d_b, Bicycle Delay [s]	26.53	22.93	32.02	28.05
l_b,int, Bicycle LOS Score for Intersection	2.239	2.819	2.309	2.767
Bicycle LOS	B	C	B	C

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



DHS 109

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Report File: G:\...\PM EAP MIT.pdf

Scenario 1 Exsiting Plus Ambient (2021) Plus Project
5/17/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
3	Indian Canyon Dr (NS) at Dillon Rd (EW)	Signalized	HCM 6th Edition	EB Left	0.858	33.4	C
9	Little Morongo Rd (NS) at 15th Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.591	14.2	B
14	Palm Dr (NS) at Two Bunch Palms Trail (EW)	Signalized	HCM 6th Edition	WB Left	0.862	27.5	C
17	Palm Dr (NS) at Dillon Rd (EW)	Signalized	HCM 6th Edition	EB Left	0.798	26.3	C

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 3: Indian Canyon Dr (NS) at Dillon Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	33.4
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.858

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			No			No			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	12	400	305	27	212	0	5	82	14	178	89	33
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	24	3	0	0	0	3	0	127	17	17
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	12	416	341	31	220	0	5	88	15	312	110	51
Peak Hour Factor	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	3	107	88	8	57	0	1	23	4	80	28	13
Total Analysis Volume [veh/h]	12	428	351	32	226	0	5	91	15	321	113	52
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	90
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	41	46	0	11	16	0	20	11	0	22	13	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	L	C	L	C	L	C
C, Cycle Length [s]	90	90	90	90	90	90	90	90
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	2	46	4	48	1	7	18	24
g / C, Green / Cycle	0.02	0.51	0.04	0.53	0.01	0.07	0.20	0.26
(v / s)_i Volume / Saturation Flow Rate	0.01	0.45	0.02	0.12	0.00	0.06	0.18	0.09
s, saturation flow rate [veh/h]	1781	1732	1781	1870	1781	1824	1781	1771
c, Capacity [veh/h]	38	876	79	988	19	133	355	464
d1, Uniform Delay [s]	43.46	20.01	41.94	11.40	44.27	41.13	35.25	27.08
k, delay calibration	0.11	0.50	0.11	0.50	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	4.53	13.06	3.33	0.54	7.42	10.17	9.01	0.46
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.31	0.89	0.41	0.23	0.27	0.79	0.90	0.36
d, Delay for Lane Group [s/veh]	47.99	33.07	45.27	11.94	51.69	51.29	44.27	27.54
Lane Group LOS	D	C	D	B	D	D	D	C
Critical Lane Group	No	Yes	Yes	No	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	0.30	14.98	0.72	2.14	0.14	2.53	7.16	2.68
50th-Percentile Queue Length [ft/ln]	7.39	374.41	18.05	53.62	3.57	63.33	179.08	67.12
95th-Percentile Queue Length [veh/ln]	0.53	21.32	1.30	3.86	0.26	4.56	11.55	4.83
95th-Percentile Queue Length [ft/ln]	13.31	533.08	32.48	96.51	6.42	114.00	288.82	120.82

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	47.99	33.07	33.07	45.27	11.94	11.94	51.69	51.29	51.29	44.27	27.54	27.54
Movement LOS	D	C	C	D	B	B	D	D	D	D	C	C
d_A, Approach Delay [s/veh]	33.30			16.08			51.31			38.59		
Approach LOS	C			B			D			D		
d_I, Intersection Delay [s/veh]	33.37											
Intersection LOS	C											
Intersection V/C	0.858											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000	0.000
Crosswalk LOS	F	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	933	267	156	200
d_b, Bicycle Delay [s]	12.80	33.80	38.27	36.45
l_b,int, Bicycle LOS Score for Intersection	2.865	1.985	1.743	2.362
Bicycle LOS	C	A	A	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 9: Little Morongo Rd (NS) at 15th Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	14.2
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.591

Intersection Setup

Name	Little Morongo Rd		Little Morongo Rd		15th Ave	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	No		No		No	

Volumes

Name	Little Morongo Rd		Little Morongo Rd		15th Ave	
Base Volume Input [veh/h]	384	0	0	226	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	52	25	0	285	128
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	399	52	25	235	285	128
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	105	14	7	62	75	34
Total Analysis Volume [veh/h]	420	55	26	247	300	135
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	2	0	0	6	7	0
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-
Minimum Green [s]	7	0	0	7	7	0
Maximum Green [s]	30	0	0	30	30	0
Amber [s]	3.0	0.0	0.0	3.0	3.0	0.0
All red [s]	1.0	0.0	0.0	1.0	1.0	0.0
Split [s]	11	0	0	11	49	0
Vehicle Extension [s]	3.0	0.0	0.0	3.0	3.0	0.0
Walk [s]	7	0	0	7	7	0
Pedestrian Clearance [s]	10	0	0	10	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
Minimum Recall	No			No	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	C	C
C, Cycle Length [s]	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	2.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00
g_i, Effective Green Time [s]	34	34	18
g / C, Green / Cycle	0.57	0.57	0.29
(v / s)_i Volume / Saturation Flow Rate	0.26	0.15	0.25
s, saturation flow rate [veh/h]	1833	1772	1717
c, Capacity [veh/h]	1050	1081	504
d1, Uniform Delay [s]	7.39	6.41	20.08
k, delay calibration	0.50	0.50	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00
d2, Incremental Delay [s]	1.41	0.56	4.51
d3, Initial Queue Delay [s]	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.45	0.25	0.86
d, Delay for Lane Group [s/veh]	8.80	6.97	24.60
Lane Group LOS	A	A	C
Critical Lane Group	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	3.12	1.52	5.82
50th-Percentile Queue Length [ft/ln]	78.04	38.01	145.58
95th-Percentile Queue Length [veh/ln]	5.62	2.74	9.78
95th-Percentile Queue Length [ft/ln]	140.47	68.41	244.52

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	8.80	8.80	6.97	6.97	24.60	24.60
Movement LOS	A	A	A	A	C	C
d_A, Approach Delay [s/veh]	8.80		6.97		24.60	
Approach LOS	A		A		C	
d_I, Intersection Delay [s/veh]	14.19					
Intersection LOS	B					
Intersection V/C	0.591					

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000
Crosswalk LOS	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	30.00	30.00	30.00
l_b,int, Bicycle LOS Score for Intersection	4.916	4.583	4.850
Bicycle LOS	E	E	E

Sequence

Ring 1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 14: Palm Dr (NS) at Two Bunch Palms Trail (EW)

Control Type:	Signalized	Delay (sec / veh):	27.5
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.862

Intersection Setup

Name	Palm Dr			Palm Dr			Two Bunch Palms Trail			Two Bunch Palms Trail		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	1
Pocket Length [ft]	96.00	100.00	100.00	101.00	100.00	100.00	95.00	100.00	100.00	70.00	100.00	130.00
Speed [mph]	40.00			35.00			40.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Two Bunch Palms Trail			Two Bunch Palms Trail		
Base Volume Input [veh/h]	180	1009	150	103	656	21	98	161	228	248	129	93
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	21	0	0	4	8	40	21	0	0	4	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	191	1091	159	109	700	30	144	192	242	263	141	99
Peak Hour Factor	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	49	282	41	28	181	8	37	50	63	68	36	26
Total Analysis Volume [veh/h]	198	1128	164	113	724	31	149	199	250	272	146	102
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	70
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	8	7	4	0
Auxiliary Signal Groups									5,8			
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	7	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	30	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0
Split [s]	13	23	0	11	21	0	15	21	21	15	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	7	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	10	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No	No	No	No	
Maximum Recall	No	No		No	No		No	No	No	No	No	
Pedestrian Recall	No	No		No	No		No	No	No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	70	70	70	70	70	70	70	70	70	70	70	70
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	0.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	9	27	27	6	24	24	7	10	23	11	14	14
g / C, Green / Cycle	0.13	0.38	0.38	0.09	0.34	0.34	0.11	0.14	0.33	0.16	0.19	0.19
(v / s)_i Volume / Saturation Flow Rate	0.11	0.32	0.10	0.06	0.20	0.02	0.08	0.11	0.16	0.15	0.08	0.06
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	230	1358	606	161	1219	544	192	267	523	281	361	307
d1, Uniform Delay [s]	29.97	19.68	14.99	31.03	19.06	15.49	30.53	28.88	18.76	29.42	24.82	24.45
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	9.07	6.04	1.10	5.45	2.13	0.20	6.64	4.10	0.68	18.57	0.73	0.63
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.86	0.83	0.27	0.70	0.59	0.06	0.78	0.74	0.48	0.97	0.40	0.33
d, Delay for Lane Group [s/veh]	39.04	25.72	16.09	36.48	21.19	15.69	37.17	32.98	19.44	47.99	25.56	25.09
Lane Group LOS	D	C	B	D	C	B	D	C	B	D	C	C
Critical Lane Group	No	Yes	No	Yes	No	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	3.62	8.31	1.77	2.01	4.76	0.34	2.64	3.28	2.99	5.72	2.07	1.43
50th-Percentile Queue Length [ft/ln]	90.42	207.87	44.37	50.20	119.04	8.41	66.02	82.05	74.76	142.96	51.74	35.70
95th-Percentile Queue Length [veh/ln]	6.51	13.04	3.19	3.61	8.34	0.61	4.75	5.91	5.38	9.64	3.73	2.57
95th-Percentile Queue Length [ft/ln]	162.76	326.09	79.86	90.36	208.50	15.14	118.84	147.68	134.56	241.01	93.14	64.25

Movement, Approach, & Intersection Results

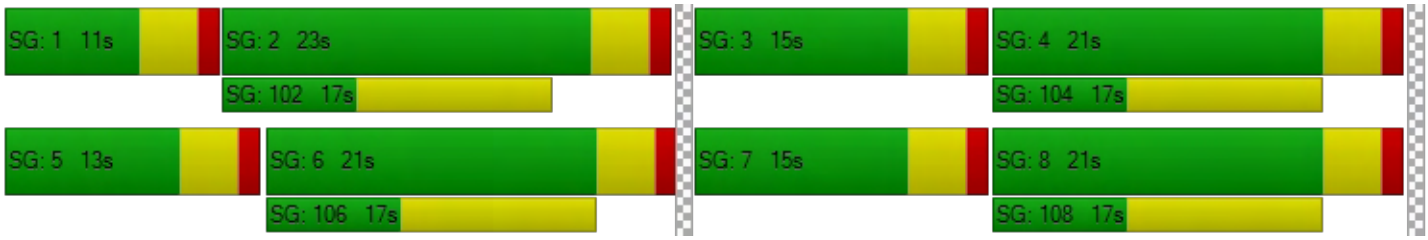
d_M, Delay for Movement [s/veh]	39.04	25.72	16.09	36.48	21.19	15.69	37.17	32.98	19.44	47.99	25.56	25.09
Movement LOS	D	C	B	D	C	B	D	C	B	D	C	C
d_A, Approach Delay [s/veh]	26.43			22.99			28.37			37.20		
Approach LOS	C			C			C			D		
d_I, Intersection Delay [s/veh]	27.51											
Intersection LOS	C											
Intersection V/C	0.862											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	24.86	24.86	24.86	24.86
l_p,int, Pedestrian LOS Score for Intersection	3.032	2.865	2.539	2.400
Crosswalk LOS	C	C	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	543	486	486	486
d_b, Bicycle Delay [s]	18.58	20.06	20.06	20.06
l_b,int, Bicycle LOS Score for Intersection	2.789	2.276	2.546	2.418
Bicycle LOS	C	B	B	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 17: Palm Dr (NS) at Dillon Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	26.3
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.798

Intersection Setup

Name	Palm Dr			Palm Dr			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	1	1	0	1
Pocket Length [ft]	150.00	100.00	100.00	150.00	100.00	100.00	155.00	100.00	155.00	140.00	100.00	140.00
Speed [mph]	60.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	180	1196	248	82	671	73	113	169	111	156	107	103
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	9	0	0	0	0	8	45	29	50	0	5	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	196	1244	258	85	698	84	163	205	165	162	116	107
Peak Hour Factor	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	52	333	69	23	187	22	44	55	44	43	31	29
Total Analysis Volume [veh/h]	210	1330	276	91	747	90	174	219	176	173	124	114
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	80
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	8	7	4	0
Auxiliary Signal Groups									5,8			
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	7	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	30	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0
Split [s]	24	35	0	11	22	0	13	21	21	13	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	7	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	10	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No	No	No	No	
Maximum Recall	No	No		No	No		No	No	No	No	No	
Pedestrian Recall	No	No		No	No		No	No	No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	80	80	80	80	80	80	80	80	80	80	80	80
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	0.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	12	37	37	6	32	32	9	12	27	9	12	12
g / C, Green / Cycle	0.15	0.47	0.47	0.08	0.40	0.40	0.11	0.15	0.34	0.11	0.15	0.15
(v / s)_i Volume / Saturation Flow Rate	0.12	0.37	0.17	0.05	0.21	0.06	0.10	0.12	0.11	0.10	0.07	0.07
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	263	1654	738	138	1403	626	202	272	545	202	272	231
d1, Uniform Delay [s]	33.03	18.36	13.92	35.99	18.64	15.61	34.96	33.17	19.46	34.94	31.36	31.54
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	5.52	4.27	1.45	5.33	1.45	0.48	10.39	5.53	0.34	10.07	1.19	1.62
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.80	0.80	0.37	0.66	0.53	0.14	0.86	0.80	0.32	0.86	0.46	0.49
d, Delay for Lane Group [s/veh]	38.55	22.63	15.37	41.32	20.09	16.09	45.35	38.70	19.80	45.00	32.55	33.16
Lane Group LOS	D	C	B	D	C	B	D	D	B	D	C	C
Critical Lane Group	No	Yes	No	Yes	No	No	No	Yes	No	Yes	No	No
50th-Percentile Queue Length [veh/ln]	3.91	9.10	2.85	1.79	4.74	0.98	3.61	4.14	2.15	3.58	2.08	1.95
50th-Percentile Queue Length [ft/ln]	97.77	227.42	71.27	44.71	118.60	24.61	90.34	103.46	53.82	89.40	52.04	48.65
95th-Percentile Queue Length [veh/ln]	7.04	14.04	5.13	3.22	8.32	1.77	6.50	7.45	3.87	6.44	3.75	3.50
95th-Percentile Queue Length [ft/ln]	175.99	351.07	128.29	80.49	207.90	44.29	162.62	186.23	96.87	160.93	93.68	87.57

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	38.55	22.63	15.37	41.32	20.09	16.09	45.35	38.70	19.80	45.00	32.55	33.16
Movement LOS	D	C	B	D	C	B	D	D	B	D	C	C
d_A, Approach Delay [s/veh]	23.37			21.78			34.89			37.96		
Approach LOS	C			C			C			D		
d_I, Intersection Delay [s/veh]	26.34											
Intersection LOS	C											
Intersection V/C	0.798											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	29.76	29.76	29.76	29.76
l_p,int, Pedestrian LOS Score for Intersection	3.398	3.237	2.568	2.570
Crosswalk LOS	C	C	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	775	450	425	425
d_b, Bicycle Delay [s]	15.01	24.03	24.81	24.81
l_b,int, Bicycle LOS Score for Intersection	3.058	2.325	2.498	2.238
Bicycle LOS	C	B	B	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Existing Plus Ambient Plus Project Plus Cumulative

DHS 109

Vistro File: G:\...\AM OY.vistro

Scenario 2 Existing Plus Ambient (2021) Plus Cumulative Plus Project

Report File: G:\...\AM EACP.pdf

5/16/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-10 EB Ramps (NS) at Garnet Ave (EW)	Signalized	HCM 6th Edition	EB Left	0.560	18.4	B
2	Indian Canyon Dr (NS) at Pierson Blvd (EW)	All-way stop	HCM 6th Edition	SB Thru	1.736	165.0	F
3	Indian Canyon Dr (NS) at Dillon Rd (EW)	All-way stop	HCM 6th Edition	WB Left	2.653	509.8	F
4	Indian Canyon Dr (NS) at 20th Ave (EW)	Signalized	HCM 6th Edition	SB Left	0.674	18.3	B
5	Indian Canyon Dr (NS) at Garnet Ave (EW)	Signalized	HCM 6th Edition	WB Right	0.616	22.4	C
6	I-10 WB Ramps (NS) at 20th Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.300	26.0	C
7	Little Morongo Rd (NS) at Pierson Blvd (EW)	All-way stop	HCM 6th Edition	SB Thru	1.193	74.8	F
8	Little Morongo Rd (NS) at 14th Ave/2 Bunch Palms (EW)	All-way stop	HCM 6th Edition	SB Thru	2.026	331.0	F
9	Little Morongo Rd (NS) at 15th Ave (EW)	Two-way stop	HCM 6th Edition	WB Left	1.492	495.0	F
10	Little Morongo Rd (NS) at Dillon Rd (EW)	All-way stop	HCM 6th Edition	WB Thru	2.101	312.2	F
11	Atlantic Ave (NS) at Dillon Rd (EW)	Two-way stop	HCM 6th Edition	SB Left	0.040	42.2	E
12	Palm Dr (NS) at Hacienda Ave (EW)	Signalized	HCM 6th Edition	EB Left	0.713	24.4	C
13	Palm Dr (NS) at Ironwood Dr (EW)	Signalized	HCM 6th Edition	EB Right	0.746	22.4	C
14	Palm Dr (NS) at Two Bunch Palms Trail (EW)	Signalized	HCM 6th Edition	WB Left	1.391	145.3	F
15	Palm Dr (NS) at Camino Campanero (EW)	Signalized	HCM 6th Edition	SB Left	0.913	22.0	C
16	Palm Dr (NS) at Camino Aventura (EW)	Two-way stop	HCM 6th Edition	WB Left	0.666	70.6	F
17	Palm Dr (NS) at Dillon Rd (EW)	Signalized	HCM 6th Edition	WB Left	1.183	102.6	F

18	Palm Dr (NS) at Varner Rd (EW)	Signalized	HCM 6th Edition	WB Right	1.052	48.3	D

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-10 EB Ramps (NS) at Garnet Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	18.4
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.560

Intersection Setup

Name	I-10 EB Ramps		Garnet Ave		Garnet Ave	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		No		No	

Volumes

Name	I-10 EB Ramps		Garnet Ave		Garnet Ave	
Base Volume Input [veh/h]	304	17	7	29	57	126
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	460	0	0	0	0	117
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	776	18	7	30	59	248
Peak Hour Factor	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	227	5	2	9	17	73
Total Analysis Volume [veh/h]	909	21	8	35	69	290
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	61
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Permissive	Permissive	Protected	Permissive	Permissive	Overlap
Signal group	1	0	3	8	4	4
Auxiliary Signal Groups						4
Lead / Lag	Lead	-	Lead	-	-	-
Minimum Green [s]	7	0	7	7	7	7
Maximum Green [s]	30	0	30	30	30	30
Amber [s]	3.0	0.0	3.0	3.0	3.0	3.0
All red [s]	1.0	0.0	1.0	1.0	1.0	1.0
Split [s]	27	0	12	33	21	21
Vehicle Extension [s]	3.0	0.0	3.0	3.0	3.0	3.0
Walk [s]	7	0	0	7	7	7
Pedestrian Clearance [s]	10	0	0	10	10	10
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	2.0	2.0	2.0	2.0
I2, Clearance Lost Time [s]	2.0	0.0	2.0	2.0	2.0	2.0
Minimum Recall	No		No	No	No	No
Maximum Recall	No		No	No	No	No
Pedestrian Recall	No		No	No	No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	L	C	C	R
C, Cycle Length [s]	61	61	61	61	61	61
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	19	19	1	34	29	29
g / C, Green / Cycle	0.31	0.31	0.02	0.56	0.48	0.48
(v / s)_i Volume / Saturation Flow Rate	0.26	0.01	0.00	0.02	0.04	0.18
s, saturation flow rate [veh/h]	3459	1589	1781	1870	1870	1589
c, Capacity [veh/h]	1073	493	30	1045	892	758
d1, Uniform Delay [s]	19.74	14.75	29.71	6.06	8.68	10.23
k, delay calibration	0.11	0.11	0.11	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	1.96	0.04	4.80	0.06	0.17	1.46
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.85	0.04	0.27	0.03	0.08	0.38
d, Delay for Lane Group [s/veh]	21.70	14.78	34.50	6.12	8.85	11.69
Lane Group LOS	C	B	C	A	A	B
Critical Lane Group	Yes	No	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	5.74	0.19	0.15	0.18	0.47	2.42
50th-Percentile Queue Length [ft/ln]	143.45	4.82	3.76	4.52	11.73	60.58
95th-Percentile Queue Length [veh/ln]	9.67	0.35	0.27	0.33	0.84	4.36
95th-Percentile Queue Length [ft/ln]	241.66	8.68	6.77	8.14	21.11	109.04

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	21.70	14.78	34.50	6.12	8.85	11.69
Movement LOS	C	B	C	A	A	B
d_A, Approach Delay [s/veh]	21.54		11.40		11.15	
Approach LOS	C		B		B	
d_I, Intersection Delay [s/veh]	18.41					
Intersection LOS	B					
Intersection V/C	0.560					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	20.49	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	2.409	0.000	0.000
Crosswalk LOS	B	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	30.50	30.50	30.50
l_b,int, Bicycle LOS Score for Intersection	4.132	4.203	4.725
Bicycle LOS	D	D	E

Sequence

Ring 1	1	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 2: Indian Canyon Dr (NS) at Pierson Blvd (EW)

Control Type:	All-way stop	Delay (sec / veh):	165.0
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.736

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Pierson Blvd			Pierson Blvd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			55.00			50.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Pierson Blvd			Pierson Blvd		
Base Volume Input [veh/h]	8	134	91	48	248	29	21	89	33	127	52	20
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	17	48	36	86	161	0	0	107	65	105	33	24
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	25	187	131	136	419	30	22	200	99	237	87	45
Peak Hour Factor	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	7	56	39	41	125	9	7	60	30	71	26	13
Total Analysis Volume [veh/h]	30	224	157	163	501	36	26	239	118	283	104	54
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	390	425	700	390	424	441
Degree of Utilization, x	0.65	0.37	1.74	0.68	0.28	1.10

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	4.43	1.67	43.18	4.85	1.12	15.57
95th-Percentile Queue Length [ft]	110.83	41.83	1079.56	121.37	28.10	389.18
Approach Delay [s/veh]	23.15		363.10	24.79		104.31
Approach LOS	C		F	C		F
Intersection Delay [s/veh]	164.95					
Intersection LOS	F					

Intersection Level Of Service Report
Intersection 3: Indian Canyon Dr (NS) at Dillon Rd (EW)

Control Type:	All-way stop	Delay (sec / veh):	509.8
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	2.653

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	16	193	119	17	410	16	4	78	50	346	72	18
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	19	91	751	40	290	0	0	100	62	448	32	9
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	36	292	875	58	716	17	4	181	114	808	107	28
Peak Hour Factor	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	10	81	244	16	200	5	1	50	32	225	30	8
Total Analysis Volume [veh/h]	40	326	975	65	798	19	4	202	127	901	119	31
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	405	975	863	436	378	408	1020	437
Degree of Utilization, x	0.90	2.21	2.15	0.04	0.55	0.31	2.65	0.07

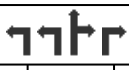
Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	9.52	71.75	62.88	0.14	3.14	1.31	84.00	0.23
95th-Percentile Queue Length [ft]	237.94	1793.83	1571.99	3.41	78.40	32.73	2100.07	5.71
Approach Delay [s/veh]	428.07		534.54		20.17		748.46	
Approach LOS	F		F		C		F	
Intersection Delay [s/veh]	509.80							
Intersection LOS	F							

Intersection Level Of Service Report
Intersection 4: Indian Canyon Dr (NS) at 20th Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	18.3
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.674

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			20th Ave			20th Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	2	0	0
Pocket Length [ft]	157.00	100.00	100.00	82.00	100.00	100.00	75.00	100.00	100.00	190.00	100.00	100.00
Speed [mph]	55.00			55.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			20th Ave			20th Ave		
Base Volume Input [veh/h]	18	272	6	3	828	16	16	2	64	254	51	94
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	750	0	0	345	0	0	0	0	0	0	380
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	19	1033	6	3	1206	17	17	2	67	264	53	478
Peak Hour Factor	0.9190	0.9190	0.9190	0.9190	0.9190	0.9190	0.9190	0.9190	0.9190	0.9190	0.9190	0.9190
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	5	281	2	1	328	5	5	1	18	72	14	130
Total Analysis Volume [veh/h]	21	1124	7	3	1312	18	18	2	73	287	58	520
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	65
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	11	20	0	12	21	0	11	13	0	20	22	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	C	L	C	R	L	C	R
C, Cycle Length [s]	65	65	65	65	65	65	65	65	65	65	65	65
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	2	32	32	0	30	30	2	9	9	8	15	15
g / C, Green / Cycle	0.04	0.49	0.49	0.01	0.47	0.47	0.03	0.13	0.13	0.12	0.22	0.22
(v / s)_i Volume / Saturation Flow Rate	0.01	0.32	0.00	0.00	0.25	0.25	0.01	0.00	0.05	0.08	0.18	0.18
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1857	1781	1870	1589	3459	1638	1589
c, Capacity [veh/h]	65	1751	782	14	1649	860	57	253	215	417	366	355
d1, Uniform Delay [s]	30.67	12.32	8.47	32.20	12.47	12.47	30.88	24.44	25.59	27.53	23.93	24.02
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.87	1.82	0.02	8.02	1.23	2.34	3.08	0.01	0.93	2.03	3.94	4.40
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.32	0.64	0.01	0.22	0.53	0.53	0.31	0.01	0.34	0.69	0.79	0.81
d, Delay for Lane Group [s/veh]	33.54	14.14	8.49	40.22	13.70	14.81	33.96	24.46	26.52	29.57	27.88	28.42
Lane Group LOS	C	B	A	D	B	B	C	C	C	C	C	C
Critical Lane Group	No	Yes	No	Yes	No	No	Yes	No	No	No	No	Yes
50th-Percentile Queue Length [veh/ln]	0.34	4.66	0.04	0.07	3.55	3.97	0.32	0.03	1.03	2.16	4.36	4.35
50th-Percentile Queue Length [ft/ln]	8.42	116.52	1.02	1.80	88.86	99.34	7.88	0.66	25.83	53.99	108.89	108.80
95th-Percentile Queue Length [veh/ln]	0.61	8.20	0.07	0.13	6.40	7.15	0.57	0.05	1.86	3.89	7.78	7.77
95th-Percentile Queue Length [ft/ln]	15.16	205.04	1.83	3.24	159.95	178.82	14.19	1.19	46.50	97.19	194.45	194.33

Movement, Approach, & Intersection Results

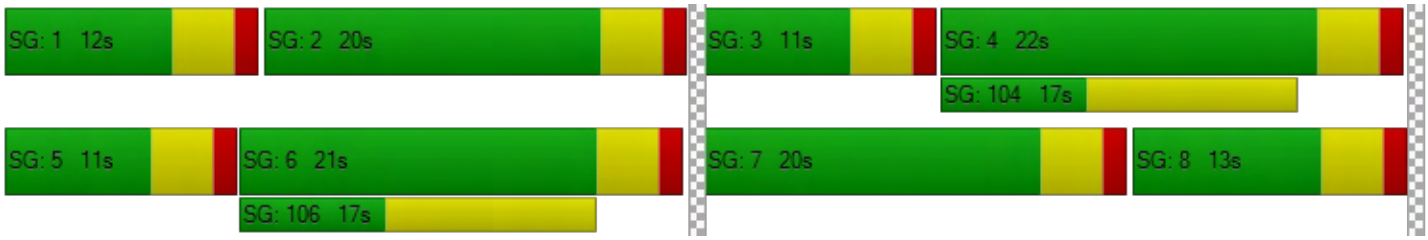
d_M, Delay for Movement [s/veh]	33.54	14.14	8.49	40.22	14.07	14.81	33.96	24.46	26.52	29.57	27.88	28.18
Movement LOS	C	B	A	D	B	B	C	C	C	C	C	C
d_A, Approach Delay [s/veh]	14.46			14.14			27.92			28.62		
Approach LOS	B			B			C			C		
d_I, Intersection Delay [s/veh]	18.26											
Intersection LOS	B											
Intersection V/C	0.674											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	22.43	22.43	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	3.327	2.159	0.000
Crosswalk LOS	F	C	B	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	492	523	277	554
d_b, Bicycle Delay [s]	18.47	17.72	24.12	16.99
l_b,int, Bicycle LOS Score for Intersection	2.510	2.293	1.713	2.987
Bicycle LOS	B	B	A	C

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report

Intersection 5: Indian Canyon Dr (NS) at Garnet Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	22.4
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.616

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Garnet Ave			Garnet Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	2	0	0	1	0	0
Pocket Length [ft]	132.00	100.00	100.00	223.00	100.00	100.00	166.00	100.00	100.00	75.00	100.00	100.00
Speed [mph]	55.00			55.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			Yes		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Garnet Ave			Garnet Ave		
Base Volume Input [veh/h]	19	441	10	153	774	141	120	12	204	22	5	9
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	290	0	0	90	117	460	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	20	749	10	159	895	264	585	12	212	23	5	9
Peak Hour Factor	0.8930	0.8930	0.8930	0.8930	0.8930	0.8930	0.8930	0.8930	0.8930	0.8930	0.8930	0.8930
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	6	210	3	45	251	74	164	3	59	6	1	3
Total Analysis Volume [veh/h]	22	839	11	178	1002	296	655	13	237	26	6	10
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	80
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	8	7	4	0
Auxiliary Signal Groups									8			
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	7	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	30	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0
Split [s]	11	21	0	17	27	0	20	31	31	11	22	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	7	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	10	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No	No	No	No	
Maximum Recall	No	No		No	No		No	No	No	No	No	
Pedestrian Recall	No	No		No	No		No	No	No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	R	L	C	R	L	C
C, Cycle Length [s]	80	80	80	80	80	80	80	80	80	80	80
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	3	36	36	10	43	43	16	15	15	3	2
g / C, Green / Cycle	0.03	0.45	0.45	0.12	0.54	0.54	0.20	0.19	0.19	0.04	0.03
(v / s)_i Volume / Saturation Flow Rate	0.01	0.16	0.16	0.10	0.28	0.19	0.19	0.01	0.15	0.01	0.01
s, saturation flow rate [veh/h]	1781	3560	1858	1781	3560	1589	3459	1870	1589	1781	1684
c, Capacity [veh/h]	63	1599	834	219	1911	853	692	352	299	71	47
d1, Uniform Delay [s]	37.77	14.44	14.45	34.26	11.98	10.58	31.66	26.62	31.07	37.50	38.24
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	3.23	0.60	1.16	7.02	1.03	1.12	7.54	0.04	4.72	3.08	4.11
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.35	0.35	0.35	0.81	0.52	0.35	0.95	0.04	0.79	0.36	0.34
d, Delay for Lane Group [s/veh]	41.01	15.05	15.60	41.28	13.02	11.70	39.20	26.66	35.79	40.58	42.35
Lane Group LOS	D	B	B	D	B	B	D	C	D	D	D
Critical Lane Group	Yes	No	No	No	Yes	No	Yes	No	No	No	Yes
50th-Percentile Queue Length [veh/ln]	0.45	2.85	3.11	3.50	4.63	2.54	6.75	0.20	4.62	0.55	0.36
50th-Percentile Queue Length [ft/ln]	11.14	71.27	77.66	87.38	115.87	63.49	168.79	5.07	115.55	13.73	8.93
95th-Percentile Queue Length [veh/ln]	0.80	5.13	5.59	6.29	8.17	4.57	11.01	0.37	8.15	0.99	0.64
95th-Percentile Queue Length [ft/ln]	20.06	128.29	139.79	157.28	204.14	114.28	275.32	9.13	203.70	24.71	16.08

Movement, Approach, & Intersection Results

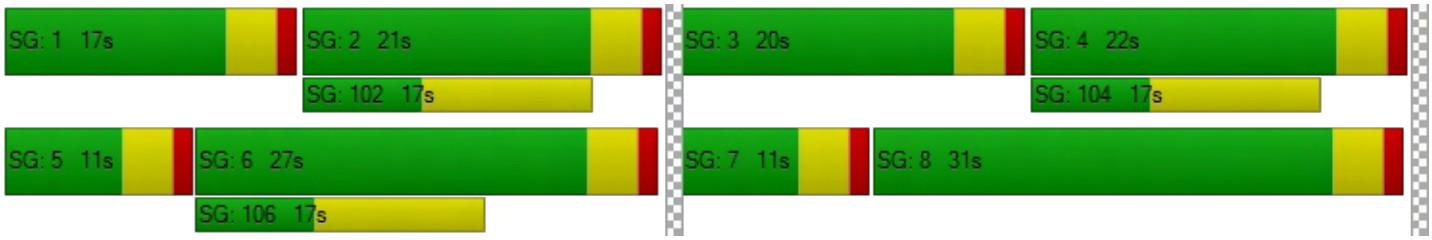
d_M, Delay for Movement [s/veh]	41.01	15.23	15.60	41.28	13.02	11.70	39.20	26.66	35.79	40.58	42.35	42.35
Movement LOS	D	B	B	D	B	B	D	C	D	D	D	D
d_A, Approach Delay [s/veh]	15.89			16.16			38.13			41.26		
Approach LOS	B			B			D			D		
d_I, Intersection Delay [s/veh]	22.44											
Intersection LOS	C											
Intersection V/C	0.616											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	29.76	29.76	29.76
l_p,int, Pedestrian LOS Score for Intersection	0.000	3.348	2.646	2.013
Crosswalk LOS	F	C	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	425	575	675	450
d_b, Bicycle Delay [s]	24.81	20.31	17.56	24.03
l_b,int, Bicycle LOS Score for Intersection	2.039	2.777	3.053	1.629
Bicycle LOS	B	C	C	A

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 6: I-10 WB Ramps (NS) at 20th Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	26.0
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.300

Intersection Setup

Name	I-10 WB Ramps		20th Ave		20th Ave	
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	1	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	90.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	No		No		No	

Volumes

Name	I-10 WB Ramps		20th Ave		20th Ave	
Base Volume Input [veh/h]	366	9	3	1	3	6
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	380	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	761	9	3	1	3	6
Peak Hour Factor	0.8900	0.8900	0.8900	0.8900	0.8900	0.8900
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	214	3	1	0	1	2
Total Analysis Volume [veh/h]	855	10	3	1	3	7
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	73
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-
Minimum Green [s]	7	0	7	0	7	7
Maximum Green [s]	30	0	30	0	30	30
Amber [s]	3.0	0.0	3.0	0.0	3.0	3.0
All red [s]	1.0	0.0	1.0	0.0	1.0	1.0
Split [s]	35	0	11	0	14	25
Vehicle Extension [s]	3.0	0.0	3.0	0.0	3.0	3.0
Walk [s]	7	0	7	0	0	7
Pedestrian Clearance [s]	10	0	10	0	0	10
Rest In Walk	No		No			No
I1, Start-Up Lost Time [s]	2.0	0.0	2.0	0.0	2.0	2.0
I2, Clearance Lost Time [s]	2.0	0.0	2.0	0.0	2.0	2.0
Minimum Recall	No		No		No	No
Maximum Recall	No		No		No	No
Pedestrian Recall	No		No		No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	C	L	C
C, Cycle Length [s]	73	73	73	73	73
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	21	21	39	0	44
g / C, Green / Cycle	0.29	0.29	0.54	0.01	0.60
(v / s)_i Volume / Saturation Flow Rate	0.25	0.01	0.00	0.00	0.00
s, saturation flow rate [veh/h]	3459	1589	1791	1781	3560
c, Capacity [veh/h]	1014	466	959	13	2127
d1, Uniform Delay [s]	24.26	18.38	7.91	36.09	5.94
k, delay calibration	0.11	0.11	0.50	0.11	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.01	0.02	0.01	8.78	0.00
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.84	0.02	0.00	0.23	0.00
d, Delay for Lane Group [s/veh]	26.27	18.40	7.92	44.86	5.94
Lane Group LOS	C	B	A	D	A
Critical Lane Group	Yes	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	6.80	0.12	0.03	0.08	0.02
50th-Percentile Queue Length [ft/ln]	169.89	2.94	0.71	2.09	0.48
95th-Percentile Queue Length [veh/ln]	11.07	0.21	0.05	0.15	0.03
95th-Percentile Queue Length [ft/ln]	276.77	5.30	1.27	3.76	0.87

Movement, Approach, & Intersection Results

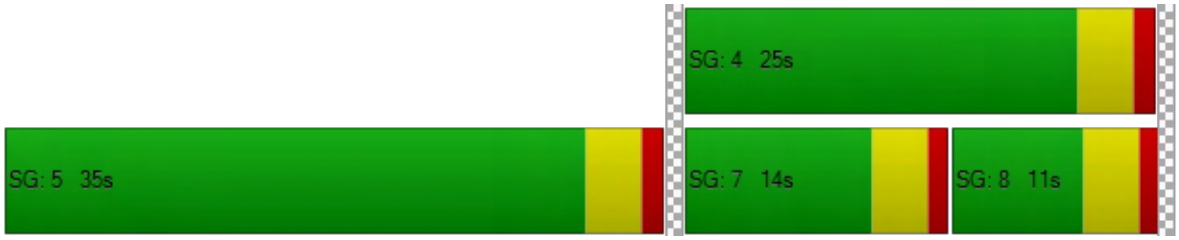
d_M, Delay for Movement [s/veh]	26.27	18.40	7.92	7.92	44.86	5.94
Movement LOS	C	B	A	A	D	A
d_A, Approach Delay [s/veh]	26.17		7.92		17.62	
Approach LOS	C		A		B	
d_I, Intersection Delay [s/veh]	25.99					
Intersection LOS	C					
Intersection V/C	0.300					

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000
Crosswalk LOS	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	36.50	36.50	36.50
l_b,int, Bicycle LOS Score for Intersection	4.132	4.139	4.141
Bicycle LOS	D	D	D

Sequence

Ring 1	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 7: Little Morongo Rd (NS) at Pierson Blvd (EW)

Control Type:	All-way stop	Delay (sec / veh):	74.8
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.193

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			Pierson Blvd			Pierson Blvd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			45.00			50.00			50.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			Pierson Blvd			Pierson Blvd		
Base Volume Input [veh/h]	7	36	22	26	88	22	3	113	38	26	148	26
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	56	77	35	0	251	51	16	22	192	127	56	1
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	63	115	59	28	347	75	19	145	234	155	216	29
Peak Hour Factor	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	18	34	17	8	101	22	6	42	68	45	63	8
Total Analysis Volume [veh/h]	74	134	69	33	405	88	22	169	273	181	252	34
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	406	526	397	433	433	452
Degree of Utilization, x	0.68	1.19	0.48	0.63	1.07	0.08

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	4.93	20.35	2.53	4.23	14.55	0.24
95th-Percentile Queue Length [ft]	123.17	508.65	63.29	105.63	363.83	6.07
Approach Delay [s/veh]	28.84	133.89	22.40		87.62	
Approach LOS	D	F	C		F	
Intersection Delay [s/veh]	74.81					
Intersection LOS	F					

Intersection Level Of Service Report

Intersection 8: Little Morongo Rd (NS) at 14th Ave/2 Bunch Palms (EW)

Control Type:	All-way stop	Delay (sec / veh):	331.0
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	2.026

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			14th Ave			Two Bunch Palms Trail		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			30.00			45.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			14th Ave			Two Bunch Palms Trail		
Base Volume Input [veh/h]	2	123	80	84	211	1	1	8	15	187	6	29
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	275	147	65	499	0	0	0	0	408	0	112
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	2	405	232	154	723	1	1	8	16	607	6	143
Peak Hour Factor	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	117	67	44	208	0	0	2	5	175	2	41
Total Analysis Volume [veh/h]	2	466	267	177	832	1	1	9	18	699	7	165
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	735	1010	388	706	510
Degree of Utilization, x	1.42	2.03	0.07	1.62	0.32

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	35.17	69.40	0.23	40.34	1.39
95th-Percentile Queue Length [ft]	879.13	1735.01	5.81	1008.57	34.82
Approach Delay [s/veh]	221.59	485.88	13.01	253.89	
Approach LOS	F	F	B	F	
Intersection Delay [s/veh]	330.98				
Intersection LOS	F				

Intersection Level Of Service Report
Intersection 9: Little Morongo Rd (NS) at 15th Ave (EW)

Control Type:	Two-way stop	Delay (sec / veh):	495.0
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.492

Intersection Setup

Name	Little Morongo Rd		Little Morongo Rd		15th Ave	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		No	

Volumes

Name	Little Morongo Rd		Little Morongo Rd		15th Ave	
Base Volume Input [veh/h]	205	0	0	413	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	544	316	143	305	50	19
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	757	316	143	735	50	19
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	199	83	38	193	13	5
Total Analysis Volume [veh/h]	797	333	151	774	53	20
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.24	0.01	1.49	0.06
d_M, Delay for Movement [s/veh]	0.00	0.00	12.69	0.00	494.96	405.25
Movement LOS	A	A	B	A	F	F
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.89	0.89	7.11	7.11
95th-Percentile Queue Length [ft/ln]	0.00	0.00	22.24	22.24	177.78	177.78
d_A, Approach Delay [s/veh]	0.00		2.07		470.38	
Approach LOS	A		A		F	
d_I, Intersection Delay [s/veh]	17.04					
Intersection LOS	F					

Intersection Level Of Service Report

Intersection 10: Little Morongo Rd (NS) at Dillon Rd (EW)

Control Type:	All-way stop	Delay (sec / veh):	312.2
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	2.101

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	1	0	0	1	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	205.00	100.00	100.00	146.00	100.00	100.00
Speed [mph]	30.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	0	0	2	117	0	173	61	75	1	1	200	42
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	34	31	30	76	99	156	607	160	125	97	299	329
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	34	31	32	203	99	343	673	241	126	98	515	375
Peak Hour Factor	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	9	8	9	54	26	91	179	64	34	26	137	100
Total Analysis Volume [veh/h]	36	33	34	216	105	365	717	257	134	104	548	399
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	385	686	717	453	410	947
Degree of Utilization, x	0.27	1.41	1.73	0.86	0.25	2.10

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	1.07	32.76	43.95	8.85	0.99	67.31
95th-Percentile Queue Length [ft]	26.64	818.94	1098.73	221.29	24.83	1682.69
Approach Delay [s/veh]	15.76	217.25	247.99		470.80	
Approach LOS	C	F	F		F	
Intersection Delay [s/veh]	312.16					
Intersection LOS	F					

Intersection Level Of Service Report
Intersection 11: Atlantic Ave (NS) at Dillon Rd (EW)

Control Type:	Two-way stop	Delay (sec / veh):	42.2
Analysis Method:	HCM 6th Edition	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.040

Intersection Setup

Name	Atlantic Ave		Dillon Rd		Dillon Rd	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		55.00		55.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		No	

Volumes

Name	Atlantic Ave		Dillon Rd		Dillon Rd	
Base Volume Input [veh/h]	4	4	3	263	345	1
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	266	725	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	4	4	3	551	1098	1
Peak Hour Factor	0.9750	0.9750	0.9750	0.9750	0.9750	0.9750
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	1	1	141	282	0
Total Analysis Volume [veh/h]	4	4	3	565	1126	1
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane	No		
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.04	0.02	0.00	0.01	0.01	0.00
d_M, Delay for Movement [s/veh]	42.17	20.93	10.84	0.00	0.00	0.00
Movement LOS	E	C	B	A	A	A
95th-Percentile Queue Length [veh/ln]	0.18	0.18	0.01	0.01	0.00	0.00
95th-Percentile Queue Length [ft/ln]	4.38	4.38	0.36	0.36	0.00	0.00
d_A, Approach Delay [s/veh]	31.55		0.06		0.00	
Approach LOS	D		A		A	
d_I, Intersection Delay [s/veh]	0.17					
Intersection LOS	E					

Intersection Level Of Service Report
Intersection 12: Palm Dr (NS) at Hacienda Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	24.4
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.713

Intersection Setup

Name	Palm Dr			Palm Dr			Hacienda Ave			Hacienda Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0
Pocket Length [ft]	110.00	100.00	100.00	90.00	100.00	100.00	70.00	100.00	100.00	80.00	100.00	100.00
Speed [mph]	35.00			35.00			45.00			40.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Hacienda Ave			Hacienda Ave		
Base Volume Input [veh/h]	50	565	44	85	657	22	23	124	93	121	121	96
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	22	137	26	0	279	0	0	0	67	83	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	75	736	73	90	976	23	24	131	166	211	128	102
Peak Hour Factor	0.9690	0.9690	0.9690	0.9690	0.9690	0.9690	0.9690	0.9690	0.9690	0.9690	0.9690	0.9690
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	19	190	19	23	252	6	6	34	43	54	33	26
Total Analysis Volume [veh/h]	77	760	75	93	1007	24	25	135	171	218	132	105
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	70
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	11	23	0	11	23	0	11	21	0	15	25	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	C	L	C	C	L	C	R
C, Cycle Length [s]	70	70	70	70	70	70	70	70	70	70	70	70
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	6	28	28	6	28	28	3	10	10	10	17	17
g / C, Green / Cycle	0.08	0.40	0.40	0.08	0.41	0.41	0.04	0.14	0.14	0.15	0.25	0.25
(v / s)_i Volume / Saturation Flow Rate	0.04	0.23	0.23	0.05	0.28	0.28	0.01	0.07	0.11	0.12	0.07	0.07
s, saturation flow rate [veh/h]	1781	1870	1812	1781	1870	1855	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	142	745	722	152	756	750	72	262	223	264	463	394
d1, Uniform Delay [s]	31.11	16.44	16.44	31.01	17.23	17.24	32.79	27.98	29.09	29.05	21.38	21.28
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	3.23	3.14	3.24	3.95	4.99	5.03	2.81	1.56	5.45	6.47	0.33	0.36
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.54	0.57	0.57	0.61	0.68	0.68	0.35	0.51	0.77	0.83	0.28	0.27
d, Delay for Lane Group [s/veh]	34.34	19.58	19.68	34.96	22.22	22.27	35.61	29.54	34.55	35.52	21.72	21.64
Lane Group LOS	C	B	B	C	C	C	D	C	C	D	C	C
Critical Lane Group	Yes	No	No	No	No	Yes	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	1.32	5.35	5.20	1.61	7.10	7.05	0.44	2.03	2.87	3.77	1.65	1.31
50th-Percentile Queue Length [ft/ln]	33.02	133.74	130.09	40.28	177.45	176.26	11.01	50.84	71.65	94.30	41.29	32.81
95th-Percentile Queue Length [veh/ln]	2.38	9.14	8.94	2.90	11.47	11.41	0.79	3.66	5.16	6.79	2.97	2.36
95th-Percentile Queue Length [ft/ln]	59.44	228.57	223.62	72.51	286.68	285.13	19.82	91.51	128.97	169.74	74.32	59.06

Movement, Approach, & Intersection Results

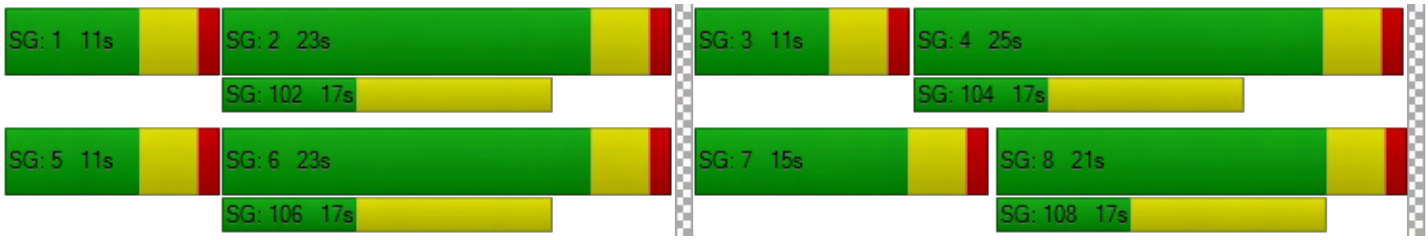
d_M, Delay for Movement [s/veh]	34.34	19.62	19.68	34.96	22.25	22.27	35.61	29.54	34.55	35.52	21.72	21.64
Movement LOS	C	B	B	C	C	C	D	C	C	D	C	C
d_A, Approach Delay [s/veh]	20.87			23.30			32.59			28.31		
Approach LOS	C			C			C			C		
d_I, Intersection Delay [s/veh]	24.41											
Intersection LOS	C											
Intersection V/C	0.713											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	24.86	24.86	24.86	24.86
l_p,int, Pedestrian LOS Score for Intersection	2.811	2.744	2.323	2.483
Crosswalk LOS	C	B	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	543	543	486	600
d_b, Bicycle Delay [s]	18.58	18.58	20.06	17.15
l_b,int, Bicycle LOS Score for Intersection	2.312	2.487	1.833	2.310
Bicycle LOS	B	B	A	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 13: Palm Dr (NS) at Ironwood Dr (EW)

Control Type:	Signalized	Delay (sec / veh):	22.4
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.746

Intersection Setup

Name	Palm Dr			Palm Dr			Ironwood Dr			Ironwood Dr		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0
Pocket Length [ft]	117.00	100.00	100.00	100.00	100.00	100.00	58.00	100.00	100.00	60.00	100.00	100.00
Speed [mph]	35.00			35.00			35.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Ironwood Dr			Ironwood Dr		
Base Volume Input [veh/h]	15	634	40	25	778	15	26	34	35	85	42	32
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	22	185	26	0	429	0	0	0	67	81	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	38	844	68	26	1238	16	27	35	103	169	44	33
Peak Hour Factor	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	11	235	19	7	345	4	8	10	29	47	12	9
Total Analysis Volume [veh/h]	42	941	76	29	1380	18	30	39	115	188	49	37
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	80
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	11	21	0	11	21	0	12	33	0	15	36	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	C	L	C	L	C
C, Cycle Length [s]	80	80	80	80	80	80	80	80	80	80
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	4	41	41	3	40	40	3	9	10	16
g / C, Green / Cycle	0.05	0.51	0.51	0.04	0.50	0.50	0.04	0.12	0.13	0.20
(v / s)_i Volume / Saturation Flow Rate	0.02	0.28	0.28	0.02	0.37	0.37	0.02	0.09	0.11	0.05
s, saturation flow rate [veh/h]	1781	1870	1821	1781	1870	1862	1781	1652	1781	1738
c, Capacity [veh/h]	96	960	935	76	939	934	77	193	227	349
d1, Uniform Delay [s]	36.71	13.09	13.09	37.33	15.88	15.89	37.27	34.44	34.10	26.91
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	3.10	2.15	2.21	3.16	5.38	5.42	3.14	7.31	7.55	0.36
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.44	0.54	0.54	0.38	0.75	0.75	0.39	0.80	0.83	0.25
d, Delay for Lane Group [s/veh]	39.81	15.24	15.29	40.49	21.26	21.32	40.41	41.76	41.65	27.27
Lane Group LOS	D	B	B	D	C	C	D	D	D	C
Critical Lane Group	Yes	No	No	No	No	Yes	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	0.85	6.04	5.90	0.60	10.29	10.27	0.62	3.20	3.90	1.36
50th-Percentile Queue Length [ft/ln]	21.36	150.91	147.40	15.07	257.28	256.74	15.55	80.02	97.56	34.06
95th-Percentile Queue Length [veh/ln]	1.54	10.07	9.88	1.08	15.55	15.53	1.12	5.76	7.02	2.45
95th-Percentile Queue Length [ft/ln]	38.44	251.64	246.95	27.12	388.80	388.13	27.99	144.03	175.61	61.31

Movement, Approach, & Intersection Results

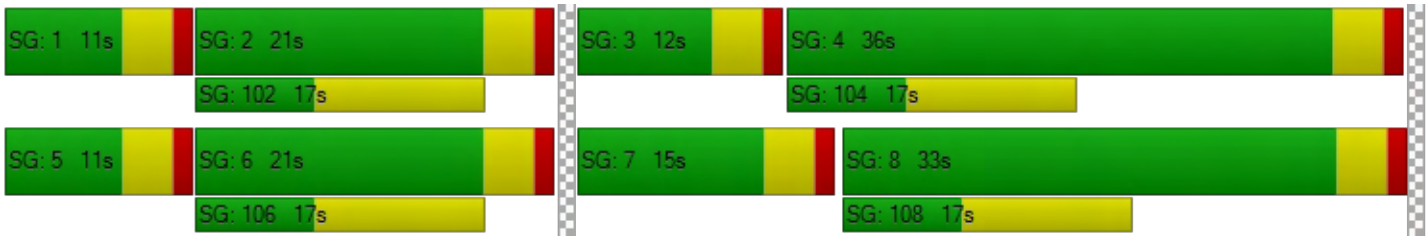
d_M, Delay for Movement [s/veh]	39.81	15.26	15.29	40.49	21.29	21.32	40.41	41.76	41.76	41.65	27.27	27.27
Movement LOS	D	B	B	D	C	C	D	D	D	D	C	C
d_A, Approach Delay [s/veh]	16.24			21.68			41.54			37.14		
Approach LOS	B			C			D			D		
d_I, Intersection Delay [s/veh]	22.40											
Intersection LOS	C											
Intersection V/C	0.746											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	29.76	29.76	29.76	29.76
l_p,int, Pedestrian LOS Score for Intersection	2.966	2.847	2.045	2.092
Crosswalk LOS	C	C	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	425	425	725	800
d_b, Bicycle Delay [s]	24.81	24.81	16.26	14.40
l_b,int, Bicycle LOS Score for Intersection	2.433	2.737	1.863	2.012
Bicycle LOS	B	B	A	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report

Intersection 14: Palm Dr (NS) at Two Bunch Palms Trail (EW)

Control Type:	Signalized	Delay (sec / veh):	145.3
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.391

Intersection Setup

Name	Palm Dr			Palm Dr			Two Bunch Palms Trail			Two Bunch Palms Trail		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	1
Pocket Length [ft]	96.00	100.00	100.00	101.00	100.00	100.00	95.00	100.00	100.00	70.00	100.00	130.00
Speed [mph]	40.00			35.00			40.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Two Bunch Palms Trail			Two Bunch Palms Trail		
Base Volume Input [veh/h]	181	594	188	64	885	24	40	182	373	259	139	45
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	175	161	22	1	323	253	72	30	68	42	102	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	367	791	222	69	1262	278	115	223	463	317	250	48
Peak Hour Factor	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	107	232	65	20	369	81	34	65	136	93	73	14
Total Analysis Volume [veh/h]	430	926	260	81	1478	326	135	261	542	371	293	56
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	25	53	0	11	39	0	35	34	0	22	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	120	120	120	120	120	120	120	120	120	120	120	120
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	21	49	49	7	35	35	11	30	30	18	37	37
g / C, Green / Cycle	0.18	0.41	0.41	0.06	0.29	0.29	0.09	0.25	0.25	0.15	0.31	0.31
(v / s)_i Volume / Saturation Flow Rate	0.24	0.26	0.16	0.05	0.42	0.21	0.08	0.14	0.34	0.21	0.16	0.04
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	312	1460	652	103	1042	465	164	465	395	267	573	487
d1, Uniform Delay [s]	49.50	28.21	24.96	55.83	42.44	37.76	53.50	39.35	45.08	51.00	34.21	29.91
k, delay calibration	0.43	0.50	0.50	0.11	0.50	0.50	0.11	0.13	0.50	0.33	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	187.01	2.11	1.82	12.55	193.80	8.51	9.71	1.24	182.12	189.23	0.71	0.10
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	1.38	0.63	0.40	0.79	1.42	0.70	0.82	0.56	1.37	1.39	0.51	0.11
d, Delay for Lane Group [s/veh]	236.51	30.32	26.78	68.38	236.24	46.28	63.21	40.60	227.20	240.24	34.92	30.01
Lane Group LOS	F	C	C	E	F	D	E	D	F	F	C	C
Critical Lane Group	Yes	No	No	No	Yes	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	25.33	10.65	5.41	2.76	43.15	9.50	4.38	6.74	31.42	21.98	7.06	1.17
50th-Percentile Queue Length [ft/ln]	633.15	266.29	135.21	69.00	1078.69	237.52	109.40	168.46	785.61	549.54	176.40	29.35
95th-Percentile Queue Length [veh/ln]	38.70	16.00	9.22	4.97	64.93	14.56	7.81	11.00	47.64	33.96	11.41	2.11
95th-Percentile Queue Length [ft/ln]	967.45	400.09	230.55	124.19	1623.17	363.89	195.17	274.89	1191.09	848.95	285.31	52.83

Movement, Approach, & Intersection Results

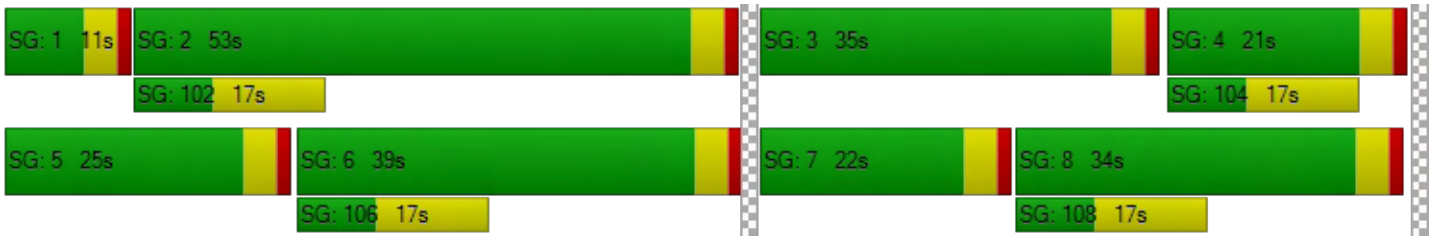
d_M, Delay for Movement [s/veh]	236.51	30.32	26.78	68.38	236.24	46.28	63.21	40.60	227.20	240.24	34.92	30.01
Movement LOS	F	C	C	E	F	D	E	D	F	F	C	C
d_A, Approach Delay [s/veh]	84.62			196.18			151.67			140.33		
Approach LOS	F			F			F			F		
d_I, Intersection Delay [s/veh]	145.35											
Intersection LOS	F											
Intersection V/C	1.391											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	49.50	49.50	49.50	49.50
l_p,int, Pedestrian LOS Score for Intersection	3.335	3.036	2.830	2.521
Crosswalk LOS	C	C	C	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	817	583	500	283
d_b, Bicycle Delay [s]	21.00	30.10	33.75	44.20
l_b,int, Bicycle LOS Score for Intersection	2.893	3.115	3.107	2.748
Bicycle LOS	C	C	C	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 15: Palm Dr (NS) at Camino Campanero (EW)

Control Type:	Signalized	Delay (sec / veh):	22.0
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.913

Intersection Setup

Name	Palm Dr		Palm Dr		Camino Campanero	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	1	0	0	1
Pocket Length [ft]	100.00	100.00	80.00	100.00	100.00	87.00
Speed [mph]	45.00		40.00		25.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		No		Yes	

Volumes

Name	Palm Dr		Palm Dr		Camino Campanero	
Base Volume Input [veh/h]	747	28	190	1234	24	213
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	338	14	19	340	53	45
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1115	43	217	1623	78	267
Peak Hour Factor	0.8130	0.8130	0.8130	0.8130	0.8130	0.8130
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	343	13	67	499	24	82
Total Analysis Volume [veh/h]	1371	53	267	1996	96	328
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	75
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Permissive	Permissive	Protected	Permissive	Split	Split
Signal group	2	0	1	6	7	0
Auxiliary Signal Groups						
Lead / Lag	-	-	Lead	-	Lead	-
Minimum Green [s]	7	0	7	7	7	0
Maximum Green [s]	30	0	30	30	30	0
Amber [s]	3.0	0.0	3.0	3.0	3.0	0.0
All red [s]	1.0	0.0	1.0	1.0	1.0	0.0
Split [s]	21	0	31	52	23	0
Vehicle Extension [s]	3.0	0.0	3.0	3.0	3.0	0.0
Walk [s]	7	0	0	7	7	0
Pedestrian Clearance [s]	10	0	0	10	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	0.0	2.0	2.0	2.0	0.0
Minimum Recall	No		No	No	No	
Maximum Recall	No		No	No	No	
Pedestrian Recall	No		No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	R	L	C	L	R
C, Cycle Length [s]	75	75	75	75	75	75
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	32	32	13	50	17	17
g / C, Green / Cycle	0.43	0.43	0.18	0.66	0.23	0.23
(v / s)_i Volume / Saturation Flow Rate	0.39	0.03	0.15	0.56	0.05	0.21
s, saturation flow rate [veh/h]	3560	1589	1781	3560	1781	1589
c, Capacity [veh/h]	1531	683	318	2357	412	368
d1, Uniform Delay [s]	19.84	12.62	29.79	9.76	23.44	27.95
k, delay calibration	0.50	0.50	0.11	0.50	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	8.54	0.22	5.87	3.99	0.29	7.53
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.90	0.08	0.84	0.85	0.23	0.89
d, Delay for Lane Group [s/veh]	28.38	12.85	35.66	13.75	23.73	35.47
Lane Group LOS	C	B	D	B	C	D
Critical Lane Group	No	No	No	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	11.07	0.50	4.85	9.71	1.39	6.30
50th-Percentile Queue Length [ft/ln]	276.73	12.43	121.28	242.79	34.74	157.41
95th-Percentile Queue Length [veh/ln]	16.53	0.89	8.46	14.82	2.50	10.41
95th-Percentile Queue Length [ft/ln]	413.14	22.37	211.58	370.55	62.54	260.29

Movement, Approach, & Intersection Results

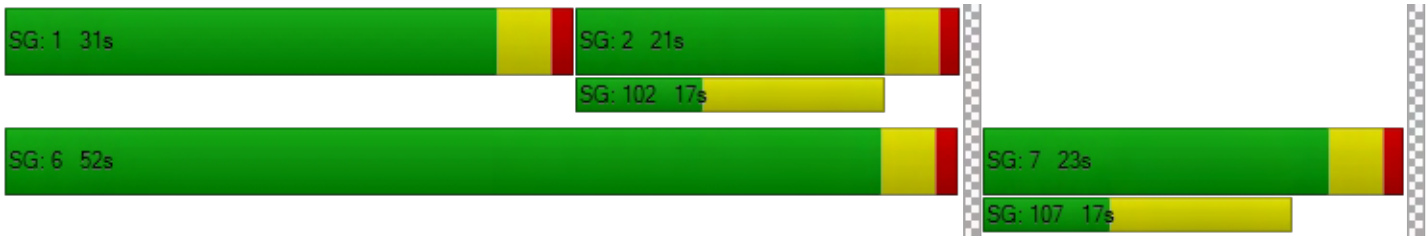
d_M, Delay for Movement [s/veh]	28.38	12.85	35.66	13.75	23.73	35.47
Movement LOS	C	B	D	B	C	D
d_A, Approach Delay [s/veh]	27.80		16.34		32.81	
Approach LOS	C		B		C	
d_I, Intersection Delay [s/veh]	22.01					
Intersection LOS	C					
Intersection V/C	0.913					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	0.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	27.31	0.00	27.31
l_p,int, Pedestrian LOS Score for Intersection	3.318	0.000	2.132
Crosswalk LOS	C	F	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	37.50	37.50	37.50
l_b,int, Bicycle LOS Score for Intersection	5.307	5.999	4.132
Bicycle LOS	F	F	D

Sequence

Ring 1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 16: Palm Dr (NS) at Camino Aventura (EW)

Control Type:	Two-way stop	Delay (sec / veh):	70.6
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.666

Intersection Setup

Name	Palm Dr		Palm Dr		Camino Aventura	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	1	0	0	0
Pocket Length [ft]	100.00	100.00	200.00	100.00	100.00	100.00
Speed [mph]	45.00		45.00		40.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		Yes	

Volumes

Name	Palm Dr		Palm Dr		Camino Aventura	
Base Volume Input [veh/h]	608	14	77	1295	24	92
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	307	14	19	374	53	45
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	939	29	99	1721	78	141
Peak Hour Factor	0.8290	0.8290	0.8290	0.8290	0.8290	0.8290
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	283	9	30	519	24	43
Total Analysis Volume [veh/h]	1133	35	119	2076	94	170
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			Yes
Number of Storage Spaces in Median	0	0	2

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.20	0.02	0.67	0.36
d_M, Delay for Movement [s/veh]	0.00	0.00	12.58	0.00	70.58	17.05
Movement LOS	A	A	B	A	F	C
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.74	0.00	3.68	1.64
95th-Percentile Queue Length [ft/ln]	0.00	0.00	18.56	0.00	91.99	41.10
d_A, Approach Delay [s/veh]	0.00		0.68		36.11	
Approach LOS	A		A		E	
d_I, Intersection Delay [s/veh]	3.04					
Intersection LOS	F					

Intersection Level Of Service Report
Intersection 17: Palm Dr (NS) at Dillon Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	102.6
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.183

Intersection Setup

Name	Palm Dr			Palm Dr			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	1	1	0	1
Pocket Length [ft]	150.00	100.00	100.00	150.00	100.00	100.00	155.00	100.00	155.00	140.00	100.00	140.00
Speed [mph]	60.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	116	510	44	21	1220	52	50	67	262	338	215	59
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	164	145	1	10	84	333	159	65	42	4	228	17
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	285	675	47	32	1353	387	211	135	314	356	452	78
Peak Hour Factor	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	78	185	13	9	370	106	58	37	86	97	124	21
Total Analysis Volume [veh/h]	312	739	51	35	1480	423	231	148	344	389	495	85
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	22	25	0	42	45	0	18	27	0	26	35	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	120	120	120	120	120	120	120	120	120	120	120	120
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	18	54	54	5	41	41	14	23	23	22	31	31
g / C, Green / Cycle	0.15	0.45	0.45	0.04	0.34	0.34	0.12	0.19	0.19	0.18	0.26	0.26
(v / s)_i Volume / Saturation Flow Rate	0.18	0.21	0.03	0.02	0.42	0.27	0.13	0.08	0.22	0.22	0.26	0.05
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	267	1610	719	72	1220	545	208	356	303	327	481	409
d1, Uniform Delay [s]	51.00	22.73	18.61	56.35	39.46	35.35	53.00	42.70	48.58	49.01	44.59	35.00
k, delay calibration	0.23	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.35	0.36	0.47	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	92.66	0.95	0.19	4.94	103.80	10.43	63.91	0.77	85.98	105.88	47.71	0.25
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	1.17	0.46	0.07	0.48	1.21	0.78	1.11	0.42	1.14	1.19	1.03	0.21
d, Delay for Lane Group [s/veh]	143.66	23.68	18.80	61.28	143.25	45.77	116.91	43.47	134.56	154.89	92.29	35.25
Lane Group LOS	F	C	B	E	F	D	F	D	F	F	F	D
Critical Lane Group	Yes	No	No	No	Yes	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	14.46	6.75	0.78	1.10	34.20	11.90	9.69	3.76	15.82	18.89	19.78	1.89
50th-Percentile Queue Length [ft/ln]	361.54	168.77	19.43	27.44	854.92	297.49	242.23	94.12	395.52	472.23	494.58	47.24
95th-Percentile Queue Length [veh/ln]	22.18	11.01	1.40	1.98	49.42	17.56	15.43	6.78	23.82	28.33	27.57	3.40
95th-Percentile Queue Length [ft/ln]	554.50	275.29	34.97	49.40	1235.55	438.92	385.71	169.41	595.39	708.27	689.25	85.04

Movement, Approach, & Intersection Results

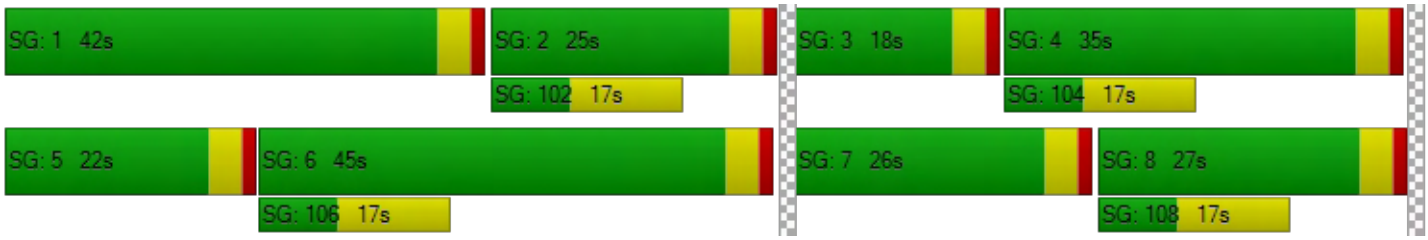
d_M, Delay for Movement [s/veh]	143.66	23.68	18.80	61.28	143.25	45.77	116.91	43.47	134.56	154.89	92.29	35.25
Movement LOS	F	C	B	E	F	D	F	D	F	F	F	D
d_A, Approach Delay [s/veh]	57.42			120.50			110.27			112.42		
Approach LOS	E			F			F			F		
d_I, Intersection Delay [s/veh]	102.59											
Intersection LOS	F											
Intersection V/C	1.183											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	49.50	49.50	49.50	49.50
l_p,int, Pedestrian LOS Score for Intersection	3.531	3.372	3.018	2.682
Crosswalk LOS	D	C	C	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	350	683	383	517
d_b, Bicycle Delay [s]	40.84	26.00	39.20	33.00
l_b,int, Bicycle LOS Score for Intersection	2.469	3.158	2.753	3.158
Bicycle LOS	B	C	C	C

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 18: Palm Dr (NS) at Varner Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	48.3
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.052

Intersection Setup

Name	Palm Dr			Palm Dr			Varner Rd			Varner Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	0	0	0	0	0	0
Pocket Length [ft]	173.00	100.00	100.00	195.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	60.00			60.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Varner Rd			Varner Rd		
Base Volume Input [veh/h]	0	663	27	35	1859	0	0	0	0	55	0	15
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	131	201	0	28	61	41	15	13	38	0	44	94
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	131	904	29	65	2033	41	15	13	38	58	44	110
Peak Hour Factor	0.8190	0.8190	0.8190	0.8190	0.8190	0.8190	0.8190	0.8190	0.8190	0.8190	0.8190	0.8190
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	40	276	9	20	621	13	5	4	12	18	13	34
Total Analysis Volume [veh/h]	160	1104	35	79	2482	50	18	16	46	71	54	134
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	5	2	0	1	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	-	-	-	-	-	-
Minimum Green [s]	7	7	0	7	7	0	0	7	0	0	7	0
Maximum Green [s]	30	30	0	30	30	0	0	30	0	0	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	16	36	0	62	82	0	0	22	0	0	22	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall	No	No		No	No			No			No	
Maximum Recall	No	No		No	No			No			No	
Pedestrian Recall	No	No		No	No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	C	C
C, Cycle Length [s]	120	120	120	120	120	120	120	120
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	12	83	83	7	78	78	18	18
g / C, Green / Cycle	0.10	0.69	0.69	0.06	0.65	0.65	0.15	0.15
(v / s)_i Volume / Saturation Flow Rate	0.09	0.31	0.02	0.04	0.70	0.03	0.05	0.16
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1521	1625
c, Capacity [veh/h]	179	2463	1099	103	2310	1031	266	283
d1, Uniform Delay [s]	53.30	8.26	5.83	55.71	21.05	7.63	45.42	51.24
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.18
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	14.09	0.59	0.05	11.32	42.31	0.09	0.63	17.49
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.89	0.45	0.03	0.77	1.07	0.05	0.30	0.92
d, Delay for Lane Group [s/veh]	67.39	8.85	5.88	67.03	63.36	7.72	46.05	68.73
Lane Group LOS	E	A	A	E	F	A	D	E
Critical Lane Group	Yes	No	No	No	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	5.22	5.01	0.23	2.57	38.03	0.41	2.09	8.85
50th-Percentile Queue Length [ft/ln]	130.62	125.22	5.79	64.21	950.84	10.23	52.16	221.36
95th-Percentile Queue Length [veh/ln]	8.97	8.68	0.42	4.62	51.22	0.74	3.76	13.73
95th-Percentile Queue Length [ft/ln]	224.33	216.98	10.41	115.57	1280.57	18.41	93.88	343.36

Movement, Approach, & Intersection Results

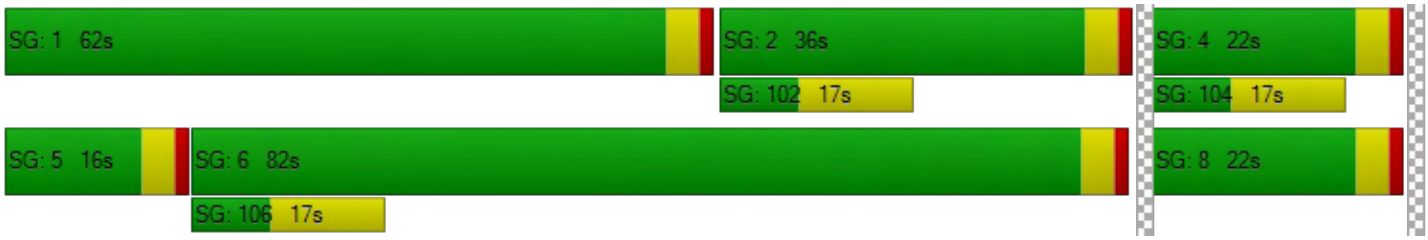
d_M, Delay for Movement [s/veh]	67.39	8.85	5.88	67.03	63.36	7.72	46.05	46.05	46.05	68.73	68.73	68.73
Movement LOS	E	A	A	E	F	A	D	D	D	E	E	E
d_A, Approach Delay [s/veh]	15.98			62.41			46.05			68.73		
Approach LOS	B			E			D			E		
d_I, Intersection Delay [s/veh]	48.29											
Intersection LOS	D											
Intersection V/C	1.052											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	49.50	49.50	49.50
l_p,int, Pedestrian LOS Score for Intersection	0.000	3.711	2.036	2.076
Crosswalk LOS	F	D	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	533	1300	300	300
d_b, Bicycle Delay [s]	32.27	7.35	43.35	43.35
l_b,int, Bicycle LOS Score for Intersection	2.631	3.714	1.692	1.987
Bicycle LOS	B	D	A	A

Sequence

Ring 1	1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



DHS 109

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Scenario 2 Existing Plus Ambient (2021) Plus Cumulative Plus Project

Report File: G:\...\PM EACP.pdf

5/16/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-10 EB Ramps (NS) at Garnet Ave (EW)	Signalized	HCM 6th Edition	EB Left	0.528	16.0	B
2	Indian Canyon Dr (NS) at Pierson Blvd (EW)	All-way stop	HCM 6th Edition	NB Thru	1.109	53.4	F
3	Indian Canyon Dr (NS) at Dillon Rd (EW)	All-way stop	HCM 6th Edition	WB Left	2.366	345.0	F
4	Indian Canyon Dr (NS) at 20th Ave (EW)	Signalized	HCM 6th Edition	EB Left	0.558	16.8	B
5	Indian Canyon Dr (NS) at Garnet Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.516	15.7	B
6	I-10 WB Ramps (NS) at 20th Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.250	24.7	C
7	Little Morongo Rd (NS) at Pierson Blvd (EW)	All-way stop	HCM 6th Edition	NB Thru	1.068	44.5	E
8	Little Morongo Rd (NS) at 14th Ave/2 Bunch Palms (EW)	All-way stop	HCM 6th Edition	NB Thru	1.768	213.4	F
9	Little Morongo Rd (NS) at 15th Ave (EW)	Two-way stop	HCM 6th Edition	WB Left	1.775	538.8	F
10	Little Morongo Rd (NS) at Dillon Rd (EW)	All-way stop	HCM 6th Edition	SB Right	2.179	312.3	F
11	Atlantic Ave (NS) at Dillon Rd (EW)	Two-way stop	HCM 6th Edition	SB Left	0.026	36.8	E
12	Palm Dr (NS) at Hacienda Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.815	28.6	C
13	Palm Dr (NS) at Ironwood Dr (EW)	Signalized	HCM 6th Edition	EB Right	0.713	18.2	B
14	Palm Dr (NS) at Two Bunch Palms Trail (EW)	Signalized	HCM 6th Edition	EB Right	1.100	73.0	E
15	Palm Dr (NS) at Camino Campanero (EW)	Signalized	HCM 6th Edition	SB Left	0.886	20.1	C
16	Palm Dr (NS) at Camino Aventura (EW)	Two-way stop	HCM 6th Edition	WB Left	0.388	65.0	F
17	Palm Dr (NS) at Dillon Rd (EW)	Signalized	HCM 6th Edition	EB Left	0.997	55.3	E

18	Palm Dr (NS) at Varner Rd (EW)	Signalized	HCM 6th Edition	SB Left	0.797	13.3	B

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-10 EB Ramps (NS) at Garnet Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	16.0
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.528

Intersection Setup

Name	I-10 EB Ramps		Garnet Ave		Garnet Ave	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		No		No	

Volumes

Name	I-10 EB Ramps		Garnet Ave		Garnet Ave	
Base Volume Input [veh/h]	200	11	10	65	54	93
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	160	0	0	0	0	288
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	368	11	10	68	56	385
Peak Hour Factor	0.8390	0.8390	0.8390	0.8390	0.8390	0.8390
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	110	3	3	20	17	115
Total Analysis Volume [veh/h]	439	13	12	81	67	459
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Permissive	Permissive	Protected	Permissive	Permissive	Overlap
Signal group	1	0	3	8	4	4
Auxiliary Signal Groups						4
Lead / Lag	Lead	-	Lead	-	-	-
Minimum Green [s]	7	0	7	7	7	7
Maximum Green [s]	30	0	30	30	30	30
Amber [s]	3.0	0.0	3.0	3.0	3.0	3.0
All red [s]	1.0	0.0	1.0	1.0	1.0	1.0
Split [s]	13	0	26	47	21	21
Vehicle Extension [s]	3.0	0.0	3.0	3.0	3.0	3.0
Walk [s]	7	0	0	7	7	7
Pedestrian Clearance [s]	10	0	0	10	10	10
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	2.0	2.0	2.0	2.0
I2, Clearance Lost Time [s]	2.0	0.0	2.0	2.0	2.0	2.0
Minimum Recall	No		No	No	No	No
Maximum Recall	No		No	No	No	No
Pedestrian Recall	No		No	No	No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	L	C	C	R
C, Cycle Length [s]	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	9	9	1	43	38	38
g / C, Green / Cycle	0.15	0.15	0.02	0.72	0.63	0.63
(v / s)_i Volume / Saturation Flow Rate	0.13	0.01	0.01	0.04	0.04	0.29
s, saturation flow rate [veh/h]	3459	1589	1781	1870	1870	1589
c, Capacity [veh/h]	522	240	41	1339	1171	995
d1, Uniform Delay [s]	24.84	21.86	28.89	2.53	4.36	5.91
k, delay calibration	0.11	0.11	0.11	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	3.74	0.09	3.77	0.09	0.09	1.54
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.84	0.05	0.29	0.06	0.06	0.46
d, Delay for Lane Group [s/veh]	28.58	21.96	32.66	2.62	4.45	7.44
Lane Group LOS	C	C	C	A	A	A
Critical Lane Group	Yes	No	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	3.11	0.15	0.21	0.19	0.26	2.58
50th-Percentile Queue Length [ft/ln]	77.77	3.86	5.14	4.72	6.55	64.38
95th-Percentile Queue Length [veh/ln]	5.60	0.28	0.37	0.34	0.47	4.64
95th-Percentile Queue Length [ft/ln]	139.98	6.94	9.26	8.49	11.78	115.89

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	28.58	21.96	32.66	2.62	4.45	7.44
Movement LOS	C	C	C	A	A	A
d_A, Approach Delay [s/veh]	28.39		6.50		7.06	
Approach LOS	C		A		A	
d_I, Intersection Delay [s/veh]	16.01					
Intersection LOS	B					
Intersection V/C	0.528					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	20.01	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	2.334	0.000	0.000
Crosswalk LOS	B	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	30.00	30.00	30.00
l_b,int, Bicycle LOS Score for Intersection	4.132	4.286	5.000
Bicycle LOS	D	E	F

Sequence

Ring 1	1	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 2: Indian Canyon Dr (NS) at Pierson Blvd (EW)

Control Type:	All-way stop	Delay (sec / veh):	53.4
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.109

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Pierson Blvd			Pierson Blvd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			55.00			50.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Pierson Blvd			Pierson Blvd		
Base Volume Input [veh/h]	37	292	108	33	146	15	21	99	14	81	76	60
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	44	97	67	24	36	0	0	29	14	29	73	63
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	82	401	179	58	188	16	22	132	29	113	152	125
Peak Hour Factor	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	21	105	47	15	49	4	6	34	8	29	40	33
Total Analysis Volume [veh/h]	86	418	187	60	196	17	23	138	30	118	158	130
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	504	506	428	407	445	458
Degree of Utilization, x	1.11	0.37	0.64	0.40	0.07	0.89

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	17.18	1.69	4.33	1.85	0.22	9.51
95th-Percentile Queue Length [ft]	429.59	42.17	108.17	46.35	5.39	237.87
Approach Delay [s/veh]	78.59		25.12	16.31		46.90
Approach LOS	F		D	C		E
Intersection Delay [s/veh]	53.38					
Intersection LOS	F					

Intersection Level Of Service Report
Intersection 3: Indian Canyon Dr (NS) at Dillon Rd (EW)

Control Type:	All-way stop	Delay (sec / veh):	345.0
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	2.366

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	12	400	305	27	212	0	5	82	14	178	89	33
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	37	178	420	8	71	0	0	40	14	591	80	30
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	49	594	737	36	291	0	5	125	29	776	173	64
Peak Hour Factor	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	13	153	190	9	75	0	1	32	7	200	44	16
Total Analysis Volume [veh/h]	50	611	758	37	299	0	5	129	30	798	178	66
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	661	758	416	419	383	415	976	473
Degree of Utilization, x	1.49	1.56	0.81	0.00	0.35	0.07	2.37	0.14

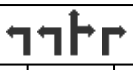
Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	34.39	40.80	7.30	0.00	1.54	0.23	75.30	0.48
95th-Percentile Queue Length [ft]	859.66	1020.07	182.49	0.00	38.41	5.82	1882.49	12.08
Approach Delay [s/veh]	267.40		39.01		16.14		601.08	
Approach LOS	F		E		C		F	
Intersection Delay [s/veh]	344.99							
Intersection LOS	F							

Intersection Level Of Service Report
Intersection 4: Indian Canyon Dr (NS) at 20th Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	16.8
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.558

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			20th Ave			20th Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	2	0	0
Pocket Length [ft]	157.00	100.00	100.00	82.00	100.00	100.00	75.00	100.00	100.00	190.00	100.00	100.00
Speed [mph]	55.00			55.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			20th Ave			20th Ave		
Base Volume Input [veh/h]	43	597	3	0	426	19	22	1	81	212	37	211
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	240	0	0	801	0	0	0	0	0	0	138
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	45	861	3	0	1244	20	23	1	84	220	38	357
Peak Hour Factor	0.9370	0.9370	0.9370	0.9370	0.9370	0.9370	0.9370	0.9370	0.9370	0.9370	0.9370	0.9370
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	12	230	1	0	332	5	6	0	22	59	10	95
Total Analysis Volume [veh/h]	48	919	3	0	1328	21	25	1	90	235	41	381
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	65
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	11	21	0	11	21	0	12	17	0	16	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	C	L	C	R	L	C	R
C, Cycle Length [s]	65	65	65	65	65	65	65	65	65	65	65	65
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	4	35	35	0	31	31	3	7	7	7	11	11
g / C, Green / Cycle	0.06	0.54	0.54	0.00	0.48	0.48	0.04	0.10	0.10	0.11	0.17	0.17
(v / s)_i Volume / Saturation Flow Rate	0.03	0.26	0.00	0.00	0.25	0.25	0.01	0.00	0.06	0.07	0.13	0.13
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1855	1781	1870	1589	3459	1637	1589
c, Capacity [veh/h]	113	1929	861	2	1705	888	72	196	167	369	280	272
d1, Uniform Delay [s]	29.34	9.22	6.85	0.00	11.78	11.78	30.42	26.11	27.66	27.88	25.72	25.73
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.49	0.85	0.01	0.00	1.14	2.17	2.86	0.01	2.70	1.82	4.27	4.45
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.42	0.48	0.00	0.00	0.52	0.52	0.35	0.01	0.54	0.64	0.76	0.76
d, Delay for Lane Group [s/veh]	31.83	10.07	6.86	0.00	12.91	13.95	33.28	26.12	30.36	29.70	30.00	30.18
Lane Group LOS	C	B	A	A	B	B	C	C	C	C	C	C
Critical Lane Group	Yes	No	No	No	No	Yes	Yes	No	No	No	No	Yes
50th-Percentile Queue Length [veh/ln]	0.72	2.85	0.01	0.00	3.44	3.84	0.42	0.01	1.39	1.77	3.31	3.24
50th-Percentile Queue Length [ft/ln]	17.89	71.32	0.36	0.00	86.05	96.07	10.60	0.35	34.86	44.14	82.70	80.92
95th-Percentile Queue Length [veh/ln]	1.29	5.13	0.03	0.00	6.20	6.92	0.76	0.02	2.51	3.18	5.95	5.83
95th-Percentile Queue Length [ft/ln]	32.20	128.37	0.65	0.00	154.89	172.92	19.08	0.62	62.76	79.46	148.87	145.66

Movement, Approach, & Intersection Results

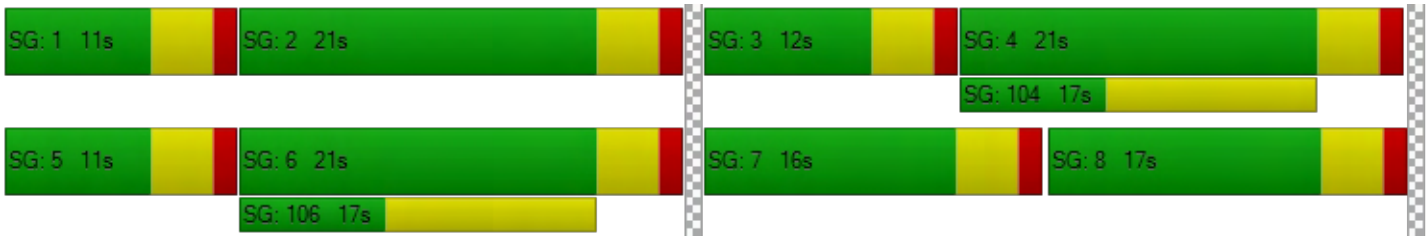
d_M, Delay for Movement [s/veh]	31.83	10.07	6.86	0.00	13.26	13.95	33.28	26.12	30.36	29.70	30.00	30.10
Movement LOS	C	B	A	A	B	B	C	C	C	C	C	C
d_A, Approach Delay [s/veh]	11.13			13.27			30.95			29.95		
Approach LOS	B			B			C			C		
d_I, Intersection Delay [s/veh]	16.81											
Intersection LOS	B											
Intersection V/C	0.558											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	22.43	22.43	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	3.232	2.168	0.000
Crosswalk LOS	F	C	B	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	523	523	400	523
d_b, Bicycle Delay [s]	17.72	17.72	20.80	17.72
l_b,int, Bicycle LOS Score for Intersection	2.360	2.302	1.751	2.644
Bicycle LOS	B	B	A	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 5: Indian Canyon Dr (NS) at Garnet Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	15.7
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.516

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Garnet Ave			Garnet Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	2	0	0	1	0	0
Pocket Length [ft]	132.00	100.00	100.00	223.00	100.00	100.00	166.00	100.00	100.00	75.00	100.00	100.00
Speed [mph]	55.00			55.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			Yes		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Garnet Ave			Garnet Ave		
Base Volume Input [veh/h]	45	829	15	142	368	108	154	16	94	9	6	11
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	80	0	0	186	288	160	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	47	942	16	148	569	400	320	17	98	9	6	11
Peak Hour Factor	0.9770	0.9770	0.9770	0.9770	0.9770	0.9770	0.9770	0.9770	0.9770	0.9770	0.9770	0.9770
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	12	241	4	38	146	102	82	4	25	2	2	3
Total Analysis Volume [veh/h]	48	964	16	151	582	409	328	17	100	9	6	11
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	65
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	8	7	4	0
Auxiliary Signal Groups									8			
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	7	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	30	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0
Split [s]	11	21	0	11	21	0	12	21	21	12	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	7	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	10	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No	No	No	No	
Maximum Recall	No	No		No	No		No	No	No	No	No	
Pedestrian Recall	No	No		No	No		No	No	No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	R	L	C	R	L	C
C, Cycle Length [s]	65	65	65	65	65	65	65	65	65	65	65
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	4	32	32	7	35	35	8	9	9	1	2
g / C, Green / Cycle	0.06	0.49	0.49	0.11	0.54	0.54	0.12	0.14	0.14	0.02	0.03
(v / s)_i Volume / Saturation Flow Rate	0.03	0.18	0.18	0.08	0.16	0.26	0.09	0.01	0.06	0.01	0.01
s, saturation flow rate [veh/h]	1781	3560	1854	1781	3560	1589	3459	1870	1589	1781	1678
c, Capacity [veh/h]	115	1753	913	192	1907	851	428	255	216	33	51
d1, Uniform Delay [s]	29.34	10.27	10.27	28.37	8.41	9.48	27.68	24.58	25.99	31.62	30.98
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.38	0.60	1.14	6.89	0.41	1.94	2.89	0.11	1.53	4.52	3.69
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.42	0.37	0.37	0.78	0.31	0.48	0.77	0.07	0.46	0.28	0.33
d, Delay for Lane Group [s/veh]	31.71	10.86	11.41	35.26	8.83	11.41	30.58	24.69	27.52	36.14	34.68
Lane Group LOS	C	B	B	D	A	B	C	C	C	D	C
Critical Lane Group	Yes	No	No	No	No	Yes	Yes	No	No	No	Yes
50th-Percentile Queue Length [veh/ln]	0.71	2.16	2.39	2.37	1.62	2.85	2.52	0.23	1.45	0.18	0.30
50th-Percentile Queue Length [ft/ln]	17.84	54.05	59.81	59.25	40.50	71.23	63.10	5.66	36.34	4.39	7.62
95th-Percentile Queue Length [veh/ln]	1.28	3.89	4.31	4.27	2.92	5.13	4.54	0.41	2.62	0.32	0.55
95th-Percentile Queue Length [ft/ln]	32.11	97.29	107.66	106.64	72.90	128.22	113.57	10.20	65.41	7.90	13.71

Movement, Approach, & Intersection Results

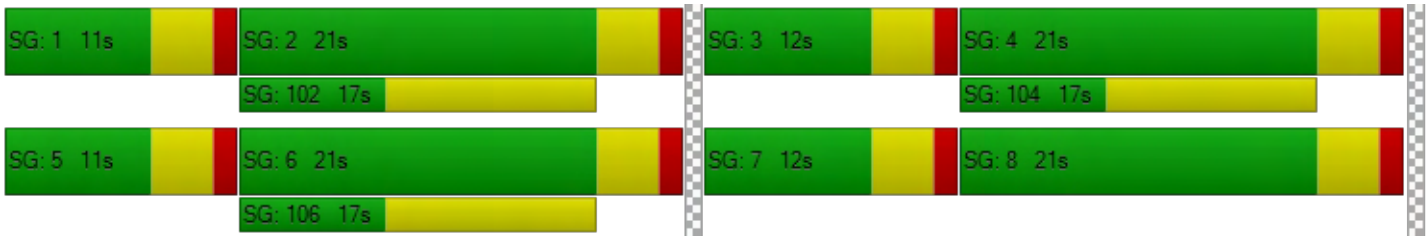
d_M, Delay for Movement [s/veh]	31.71	11.04	11.41	35.26	8.83	11.41	30.58	24.69	27.52	36.14	34.68	34.68
Movement LOS	C	B	B	D	A	B	C	C	C	D	C	C
d_A, Approach Delay [s/veh]	12.01			13.25			29.67			35.18		
Approach LOS	B			B			C			D		
d_I, Intersection Delay [s/veh]	15.75											
Intersection LOS	B											
Intersection V/C	0.516											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	22.43	22.43	22.43
l_p,int, Pedestrian LOS Score for Intersection	0.000	3.200	2.582	1.990
Crosswalk LOS	F	C	B	A
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	523	523	523	523
d_b, Bicycle Delay [s]	17.72	17.72	17.72	17.72
l_b,int, Bicycle LOS Score for Intersection	2.125	2.502	2.294	1.603
Bicycle LOS	B	B	B	A

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 6: I-10 WB Ramps (NS) at 20th Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	24.7
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.250

Intersection Setup

Name	I-10 WB Ramps		20th Ave		20th Ave	
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	1	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	90.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	No		No		No	

Volumes

Name	I-10 WB Ramps		20th Ave		20th Ave	
Base Volume Input [veh/h]	482	4	2	1	5	9
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	138	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	639	4	2	1	5	9
Peak Hour Factor	0.9250	0.9250	0.9250	0.9250	0.9250	0.9250
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	173	1	1	0	1	2
Total Analysis Volume [veh/h]	691	4	2	1	5	10
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	66
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-
Minimum Green [s]	7	0	7	0	7	7
Maximum Green [s]	30	0	30	0	30	30
Amber [s]	3.0	0.0	3.0	0.0	3.0	3.0
All red [s]	1.0	0.0	1.0	0.0	1.0	1.0
Split [s]	37	0	11	0	12	23
Vehicle Extension [s]	3.0	0.0	3.0	0.0	3.0	3.0
Walk [s]	7	0	7	0	0	7
Pedestrian Clearance [s]	10	0	10	0	0	10
Rest In Walk	No		No			No
I1, Start-Up Lost Time [s]	2.0	0.0	2.0	0.0	2.0	2.0
I2, Clearance Lost Time [s]	2.0	0.0	2.0	0.0	2.0	2.0
Minimum Recall	No		No		No	No
Maximum Recall	No		No		No	No
Pedestrian Recall	No		No		No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	C	L	C
C, Cycle Length [s]	66	66	66	66	66
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	17	17	37	1	42
g / C, Green / Cycle	0.25	0.25	0.56	0.01	0.63
(v / s)_i Volume / Saturation Flow Rate	0.20	0.00	0.00	0.00	0.00
s, saturation flow rate [veh/h]	3459	1589	1766	1781	3560
c, Capacity [veh/h]	866	398	984	20	2238
d1, Uniform Delay [s]	23.22	18.62	6.50	32.43	4.58
k, delay calibration	0.11	0.11	0.50	0.11	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	1.74	0.01	0.01	6.48	0.00
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.80	0.01	0.00	0.25	0.00
d, Delay for Lane Group [s/veh]	24.95	18.63	6.51	38.91	4.58
Lane Group LOS	C	B	A	D	A
Critical Lane Group	Yes	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	4.91	0.04	0.02	0.11	0.02
50th-Percentile Queue Length [ft/ln]	122.70	1.12	0.43	2.81	0.52
95th-Percentile Queue Length [veh/ln]	8.54	0.08	0.03	0.20	0.04
95th-Percentile Queue Length [ft/ln]	213.53	2.01	0.77	5.06	0.94

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	24.95	18.63	6.51	6.51	38.91	4.58
Movement LOS	C	B	A	A	D	A
d_A, Approach Delay [s/veh]	24.92		6.51		16.02	
Approach LOS	C		A		B	
d_I, Intersection Delay [s/veh]	24.65					
Intersection LOS	C					
Intersection V/C	0.250					

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000
Crosswalk LOS	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	33.00	33.00	33.00
l_b,int, Bicycle LOS Score for Intersection	4.132	4.137	4.145
Bicycle LOS	D	D	D

Sequence

Ring 1	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report

Intersection 7: Little Morongo Rd (NS) at Pierson Blvd (EW)

Control Type:	All-way stop	Delay (sec / veh):	44.5
Analysis Method:	HCM 6th Edition	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.068

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			Pierson Blvd			Pierson Blvd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			45.00			50.00			50.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			Pierson Blvd			Pierson Blvd		
Base Volume Input [veh/h]	28	88	39	49	53	5	12	185	22	10	148	61
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	134	170	85	1	71	12	31	38	51	29	19	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	164	266	128	54	128	17	43	238	75	39	179	66
Peak Hour Factor	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	42	68	33	14	33	4	11	61	19	10	46	17
Total Analysis Volume [veh/h]	169	274	132	56	132	17	44	245	77	40	184	68
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	575	473	457	506	445	492
Degree of Utilization, x	1.07	0.43	0.63	0.15	0.50	0.14

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	17.14	2.16	4.30	0.53	2.76	0.48
95th-Percentile Queue Length [ft]	428.38	54.01	107.51	13.34	69.12	11.90
Approach Delay [s/veh]	83.57	16.34	20.70		16.96	
Approach LOS	F	C	C		C	
Intersection Delay [s/veh]	44.46					
Intersection LOS	E					

Intersection Level Of Service Report

Intersection 8: Little Morongo Rd (NS) at 14th Ave/2 Bunch Palms (EW)

Control Type:	All-way stop	Delay (sec / veh):	213.4
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.768

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			14th Ave			Two Bunch Palms Trail		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			30.00			45.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			14th Ave			Two Bunch Palms Trail		
Base Volume Input [veh/h]	14	167	203	45	108	3	0	11	4	114	9	69
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	330	271	92	189	0	0	0	0	103	0	64
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	15	507	486	140	303	3	0	11	4	224	9	137
Peak Hour Factor	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	4	134	129	37	80	1	0	3	1	59	2	36
Total Analysis Volume [veh/h]	16	538	515	148	321	3	0	12	4	238	10	145
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	1069	563	433	452	530
Degree of Utilization, x	1.77	0.84	0.04	0.55	0.27

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	64.28	8.81	0.11	3.24	1.10
95th-Percentile Queue Length [ft]	1606.97	220.13	2.87	80.89	27.59
Approach Delay [s/veh]	367.72	34.28	11.63	17.01	
Approach LOS	F	D	B	C	
Intersection Delay [s/veh]	213.41				
Intersection LOS	F				

Intersection Level Of Service Report
Intersection 9: Little Morongo Rd (NS) at 15th Ave (EW)

Control Type:	Two-way stop	Delay (sec / veh):	538.8
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.775

Intersection Setup

Name	Little Morongo Rd		Little Morongo Rd		15th Ave	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		No	

Volumes

Name	Little Morongo Rd		Little Morongo Rd		15th Ave	
Base Volume Input [veh/h]	384	0	0	226	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	209	52	25	322	285	128
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	608	52	25	557	285	128
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	160	14	7	147	75	34
Total Analysis Volume [veh/h]	640	55	26	586	300	135
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.03	0.01	1.78	0.29
d_M, Delay for Movement [s/veh]	0.00	0.00	9.12	0.00	538.77	525.32
Movement LOS	A	A	A	A	F	F
95th-Percentile Queue Length [veh/ln]	0.00	0.00	0.09	0.09	33.04	33.04
95th-Percentile Queue Length [ft/ln]	0.00	0.00	2.14	2.14	825.99	825.99
d_A, Approach Delay [s/veh]	0.00		0.39		534.59	
Approach LOS	A		A		F	
d_I, Intersection Delay [s/veh]	133.63					
Intersection LOS	F					

Intersection Level Of Service Report
Intersection 10: Little Morongo Rd (NS) at Dillon Rd (EW)

Control Type:	All-way stop	Delay (sec / veh):	312.3
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	2.179

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	1	0	0	1	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	205.00	100.00	100.00	146.00	100.00	100.00
Speed [mph]	30.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	0	1	2	71	1	84	199	183	0	0	132	102
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	72	62	59	236	22	411	127	313	28	22	218	67
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	72	63	61	313	23	501	342	511	28	22	360	177
Peak Hour Factor	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	21	18	17	89	7	143	97	146	8	6	103	50
Total Analysis Volume [veh/h]	82	72	70	357	26	571	390	583	32	25	410	202
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	381	954	390	615	382	612
Degree of Utilization, x	0.59	2.18	1.01	1.50	0.07	1.48

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	3.61	69.65	12.31	32.67	0.21	31.90
95th-Percentile Queue Length [ft]	90.37	1741.18	307.70	816.82	5.22	797.54
Approach Delay [s/veh]	25.07	556.33	189.88		240.92	
Approach LOS	D	F	F		F	
Intersection Delay [s/veh]	312.29					
Intersection LOS	F					

Intersection Level Of Service Report
Intersection 11: Atlantic Ave (NS) at Dillon Rd (EW)

Control Type:	Two-way stop	Delay (sec / veh):	36.8
Analysis Method:	HCM 6th Edition	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.026

Intersection Setup

Name	Atlantic Ave		Dillon Rd		Dillon Rd	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		55.00		55.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		No	

Volumes

Name	Atlantic Ave		Dillon Rd		Dillon Rd	
Base Volume Input [veh/h]	3	2	3	276	250	1
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	608	307	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	3	2	3	906	577	1
Peak Hour Factor	0.9290	0.9290	0.9290	0.9290	0.9290	0.9290
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	1	1	244	155	0
Total Analysis Volume [veh/h]	3	2	3	975	621	1
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane	No		
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.03	0.00	0.00	0.01	0.01	0.00
d_M, Delay for Movement [s/veh]	36.85	13.06	8.77	0.00	0.00	0.00
Movement LOS	E	B	A	A	A	A
95th-Percentile Queue Length [veh/ln]	0.09	0.09	0.01	0.01	0.00	0.00
95th-Percentile Queue Length [ft/ln]	2.32	2.32	0.24	0.24	0.00	0.00
d_A, Approach Delay [s/veh]	27.33		0.03		0.00	
Approach LOS	D		A		A	
d_I, Intersection Delay [s/veh]	0.10					
Intersection LOS	E					

Intersection Level Of Service Report
Intersection 12: Palm Dr (NS) at Hacienda Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	28.6
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.815

Intersection Setup

Name	Palm Dr			Palm Dr			Hacienda Ave			Hacienda Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0
Pocket Length [ft]	110.00	100.00	100.00	90.00	100.00	100.00	70.00	100.00	100.00	80.00	100.00	100.00
Speed [mph]	35.00			35.00			45.00			40.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Hacienda Ave			Hacienda Ave		
Base Volume Input [veh/h]	84	880	69	112	541	26	40	101	76	170	126	97
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	51	340	68	0	276	0	0	0	25	36	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	140	1274	141	119	850	28	43	107	106	216	134	103
Peak Hour Factor	0.9710	0.9710	0.9710	0.9710	0.9710	0.9710	0.9710	0.9710	0.9710	0.9710	0.9710	0.9710
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	36	328	36	31	219	7	11	28	27	56	35	27
Total Analysis Volume [veh/h]	144	1312	145	123	875	29	44	110	109	222	138	106
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	85
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	19	21	0	27	29	0	11	21	0	16	26	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	C	L	C	C	L	C	R
C, Cycle Length [s]	85	85	85	85	85	85	85	85	85	85	85	85
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	9	41	41	8	40	40	5	8	8	12	15	15
g / C, Green / Cycle	0.10	0.49	0.49	0.09	0.47	0.47	0.05	0.09	0.09	0.14	0.18	0.18
(v / s)_i Volume / Saturation Flow Rate	0.08	0.39	0.40	0.07	0.24	0.24	0.02	0.06	0.07	0.12	0.07	0.07
s, saturation flow rate [veh/h]	1781	1870	1806	1781	1870	1849	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	182	909	878	160	886	876	97	177	150	252	339	289
d1, Uniform Delay [s]	37.35	18.55	18.73	37.91	15.59	15.59	39.03	37.11	37.49	35.85	30.81	30.58
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	7.46	7.73	8.52	7.53	2.12	2.15	3.24	3.55	6.49	9.59	0.78	0.78
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.79	0.81	0.82	0.77	0.51	0.51	0.45	0.62	0.73	0.88	0.41	0.37
d, Delay for Lane Group [s/veh]	44.81	26.28	27.25	45.43	17.71	17.74	42.27	40.65	43.98	45.44	31.60	31.36
Lane Group LOS	D	C	C	D	B	B	D	D	D	D	C	C
Critical Lane Group	No	No	Yes	Yes	No	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	3.22	12.88	12.89	2.77	6.11	6.05	0.94	2.26	2.36	4.97	2.46	1.88
50th-Percentile Queue Length [ft/ln]	80.44	322.10	322.30	69.21	152.72	151.15	23.39	56.51	58.99	124.32	61.48	47.02
95th-Percentile Queue Length [veh/ln]	5.79	18.77	18.78	4.98	10.16	10.08	1.68	4.07	4.25	8.63	4.43	3.39
95th-Percentile Queue Length [ft/ln]	144.79	469.27	469.51	124.58	254.05	251.96	42.11	101.71	106.18	215.75	110.66	84.64

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	44.81	26.71	27.25	45.43	17.72	17.74	42.27	40.65	43.98	45.44	31.60	31.36
Movement LOS	D	C	C	D	B	B	D	D	D	D	C	C
d_A, Approach Delay [s/veh]	28.38			21.04			42.30			38.14		
Approach LOS	C			C			D			D		
d_I, Intersection Delay [s/veh]	28.58											
Intersection LOS	C											
Intersection V/C	0.815											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	32.21	32.21	32.21	32.21
l_p,int, Pedestrian LOS Score for Intersection	2.935	2.863	2.338	2.516
Crosswalk LOS	C	C	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	400	588	400	518
d_b, Bicycle Delay [s]	27.20	21.18	27.20	23.35
l_b,int, Bicycle LOS Score for Intersection	2.880	2.407	1.777	2.329
Bicycle LOS	C	B	A	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 13: Palm Dr (NS) at Ironwood Dr (EW)

Control Type:	Signalized	Delay (sec / veh):	18.2
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.713

Intersection Setup

Name	Palm Dr			Palm Dr			Ironwood Dr			Ironwood Dr		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	0
Pocket Length [ft]	117.00	100.00	100.00	100.00	100.00	100.00	58.00	100.00	100.00	60.00	100.00	100.00
Speed [mph]	35.00			35.00			35.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Ironwood Dr			Ironwood Dr		
Base Volume Input [veh/h]	48	1014	76	27	705	37	54	36	20	49	29	46
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	51	459	66	0	337	0	0	0	25	35	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	101	1514	145	28	1070	38	56	37	46	86	30	48
Peak Hour Factor	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	26	395	38	7	279	10	15	10	12	22	8	13
Total Analysis Volume [veh/h]	105	1579	151	29	1116	40	58	39	48	90	31	50
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	95
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	12	22	0	11	21	0	19	51	0	11	43	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	C	L	C	C	L	C	L	C
C, Cycle Length [s]	95	95	95	95	95	95	95	95	95	95
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	7	63	63	4	59	59	6	6	6	7
g / C, Green / Cycle	0.07	0.66	0.66	0.04	0.62	0.62	0.06	0.07	0.07	0.08
(v / s)_i Volume / Saturation Flow Rate	0.06	0.46	0.48	0.02	0.31	0.31	0.03	0.05	0.05	0.05
s, saturation flow rate [veh/h]	1781	1870	1814	1781	1870	1847	1781	1704	1781	1686
c, Capacity [veh/h]	134	1226	1190	73	1162	1148	105	115	121	129
d1, Uniform Delay [s]	43.23	10.51	10.74	44.51	9.91	9.91	43.56	43.61	43.54	42.64
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	9.48	3.46	3.86	3.53	1.54	1.56	4.48	9.71	8.71	4.97
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.78	0.71	0.72	0.40	0.50	0.50	0.55	0.76	0.74	0.63
d, Delay for Lane Group [s/veh]	52.70	13.98	14.60	48.04	11.45	11.47	48.04	53.32	52.25	47.61
Lane Group LOS	D	B	B	D	B	B	D	D	D	D
Critical Lane Group	No	No	Yes	Yes	No	No	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	2.73	10.79	11.03	0.73	6.28	6.22	1.44	2.28	2.33	1.99
50th-Percentile Queue Length [ft/ln]	68.32	269.86	275.79	18.17	157.00	155.38	35.88	57.11	58.31	49.75
95th-Percentile Queue Length [veh/ln]	4.92	16.18	16.48	1.31	10.39	10.30	2.58	4.11	4.20	3.58
95th-Percentile Queue Length [ft/ln]	122.98	404.56	411.97	32.70	259.75	257.60	64.58	102.79	104.96	89.55

Movement, Approach, & Intersection Results

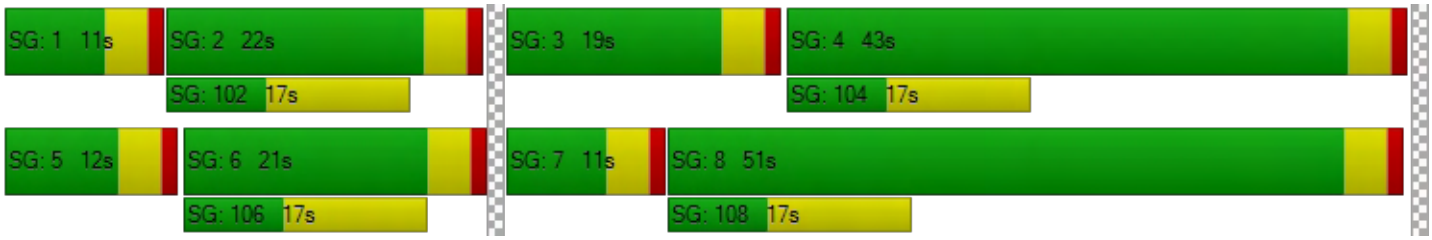
d_M, Delay for Movement [s/veh]	52.70	14.26	14.60	48.04	11.46	11.47	48.04	53.32	53.32	52.25	47.61	47.61
Movement LOS	D	B	B	D	B	B	D	D	D	D	D	D
d_A, Approach Delay [s/veh]	16.49			12.36			51.21			50.05		
Approach LOS	B			B			D			D		
d_I, Intersection Delay [s/veh]	18.25											
Intersection LOS	B											
Intersection V/C	0.713											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	37.14	37.14	37.14	37.14
l_p,int, Pedestrian LOS Score for Intersection	3.041	2.955	2.064	2.090
Crosswalk LOS	C	C	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	379	358	989	821
d_b, Bicycle Delay [s]	31.21	32.02	12.13	16.51
l_b,int, Bicycle LOS Score for Intersection	3.073	2.537	1.799	1.842
Bicycle LOS	C	B	A	A

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 14: Palm Dr (NS) at Two Bunch Palms Trail (EW)

Control Type:	Signalized	Delay (sec / veh):	73.0
Analysis Method:	HCM 6th Edition	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.100

Intersection Setup

Name	Palm Dr			Palm Dr			Two Bunch Palms Trail			Two Bunch Palms Trail		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	1
Pocket Length [ft]	96.00	100.00	100.00	101.00	100.00	100.00	95.00	100.00	100.00	70.00	100.00	130.00
Speed [mph]	40.00			35.00			40.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Two Bunch Palms Trail			Two Bunch Palms Trail		
Base Volume Input [veh/h]	180	1009	150	103	656	21	98	161	228	248	129	93
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	68	410	47	0	342	55	166	71	134	41	22	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	259	1480	206	109	1038	77	270	242	376	304	159	99
Peak Hour Factor	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	67	383	53	28	268	20	70	63	97	79	41	26
Total Analysis Volume [veh/h]	268	1531	213	113	1073	80	279	250	389	314	164	102
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	95
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	17	40	0	11	34	0	21	25	0	19	23	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	95	95	95	95	95	95	95	95	95	95	95	95
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	13	36	36	7	30	30	17	21	21	15	19	19
g / C, Green / Cycle	0.14	0.38	0.38	0.07	0.32	0.32	0.17	0.22	0.22	0.16	0.20	0.20
(v / s)_i Volume / Saturation Flow Rate	0.15	0.43	0.13	0.06	0.30	0.05	0.16	0.13	0.24	0.18	0.09	0.06
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	244	1354	605	132	1130	504	311	410	349	281	379	322
d1, Uniform Delay [s]	41.01	29.45	21.07	43.52	31.71	23.33	38.36	33.42	37.09	40.01	33.12	32.29
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.29	0.13	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	58.02	68.64	1.61	14.61	17.16	0.67	9.00	1.46	72.30	64.77	0.78	0.56
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	1.10	1.13	0.35	0.86	0.95	0.16	0.90	0.61	1.12	1.12	0.43	0.32
d, Delay for Lane Group [s/veh]	99.03	98.09	22.68	58.12	48.87	24.00	47.36	34.88	109.39	104.78	33.91	32.85
Lane Group LOS	F	F	C	E	D	C	D	C	F	F	C	C
Critical Lane Group	No	Yes	No	Yes	No	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	9.43	27.15	3.48	3.11	14.16	1.35	6.88	5.14	14.71	11.45	3.30	2.00
50th-Percentile Queue Length [ft/ln]	235.66	678.76	86.91	77.71	353.89	33.79	172.01	128.59	367.82	286.23	82.58	50.07
95th-Percentile Queue Length [veh/ln]	15.05	38.76	6.26	5.59	20.33	2.43	11.18	8.86	22.24	17.87	5.95	3.61
95th-Percentile Queue Length [ft/ln]	376.34	969.01	156.44	139.87	508.15	60.82	279.55	221.58	556.11	446.74	148.64	90.13

Movement, Approach, & Intersection Results

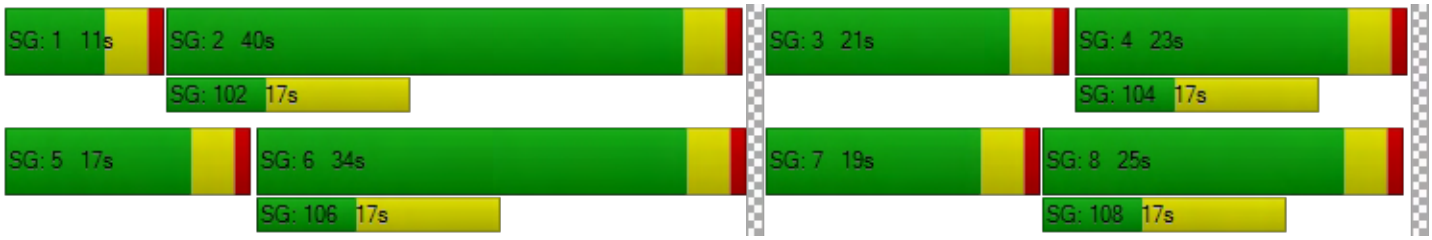
d_M, Delay for Movement [s/veh]	99.03	98.09	22.68	58.12	48.87	24.00	47.36	34.88	109.39	104.78	33.91	32.85
Movement LOS	F	F	C	E	D	C	D	C	F	F	C	C
d_A, Approach Delay [s/veh]	90.23			48.12			70.25			72.09		
Approach LOS	F			D			E			E		
d_I, Intersection Delay [s/veh]	73.03											
Intersection LOS	E											
Intersection V/C	1.100											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	37.14	37.14	37.14	37.14
l_p,int, Pedestrian LOS Score for Intersection	3.276	3.058	2.674	2.462
Crosswalk LOS	C	C	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	758	632	442	400
d_b, Bicycle Delay [s]	18.32	22.24	28.82	30.40
l_b,int, Bicycle LOS Score for Intersection	3.220	2.604	3.074	2.517
Bicycle LOS	C	B	C	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 15: Palm Dr (NS) at Camino Campanero (EW)

Control Type:	Signalized	Delay (sec / veh):	20.1
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.886

Intersection Setup

Name	Palm Dr		Palm Dr		Camino Campanero	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	1	0	0	1
Pocket Length [ft]	100.00	100.00	80.00	100.00	100.00	87.00
Speed [mph]	45.00		40.00		25.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		No		Yes	

Volumes

Name	Palm Dr		Palm Dr		Camino Campanero	
Base Volume Input [veh/h]	1268	34	138	884	17	167
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	437	36	48	396	11	39
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1756	71	192	1315	29	213
Peak Hour Factor	0.9490	0.9490	0.9490	0.9490	0.9490	0.9490
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	463	19	51	346	8	56
Total Analysis Volume [veh/h]	1850	75	202	1386	31	224
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	95
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Permissive	Permissive	Protected	Permissive	Split	Split
Signal group	2	0	1	6	7	0
Auxiliary Signal Groups						
Lead / Lag	-	-	Lead	-	Lead	-
Minimum Green [s]	7	0	7	7	7	0
Maximum Green [s]	30	0	30	30	30	0
Amber [s]	3.0	0.0	3.0	3.0	3.0	0.0
All red [s]	1.0	0.0	1.0	1.0	1.0	0.0
Split [s]	21	0	48	69	26	0
Vehicle Extension [s]	3.0	0.0	3.0	3.0	3.0	0.0
Walk [s]	7	0	0	7	7	0
Pedestrian Clearance [s]	10	0	0	10	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	0.0	2.0	2.0	2.0	0.0
Minimum Recall	No		No	No	No	
Maximum Recall	No		No	No	No	
Pedestrian Recall	No		No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	R	L	C	L	R
C, Cycle Length [s]	95	95	95	95	95	95
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	55	55	13	72	15	15
g / C, Green / Cycle	0.58	0.58	0.14	0.75	0.16	0.16
(v / s)_i Volume / Saturation Flow Rate	0.52	0.05	0.11	0.39	0.02	0.14
s, saturation flow rate [veh/h]	3560	1589	1781	3560	1781	1589
c, Capacity [veh/h]	2047	914	242	2682	290	259
d1, Uniform Delay [s]	17.86	9.00	40.01	4.74	33.90	38.78
k, delay calibration	0.50	0.50	0.11	0.50	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	7.08	0.18	7.34	0.72	0.16	8.54
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.90	0.08	0.83	0.52	0.11	0.87
d, Delay for Lane Group [s/veh]	24.94	9.18	47.35	5.46	34.07	47.32
Lane Group LOS	C	A	D	A	C	D
Critical Lane Group	Yes	No	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	16.73	0.65	4.93	3.87	0.63	5.68
50th-Percentile Queue Length [ft/ln]	418.18	16.15	123.25	96.67	15.66	142.10
95th-Percentile Queue Length [veh/ln]	23.43	1.16	8.57	6.96	1.13	9.59
95th-Percentile Queue Length [ft/ln]	585.87	29.08	214.29	174.01	28.19	239.85

Movement, Approach, & Intersection Results

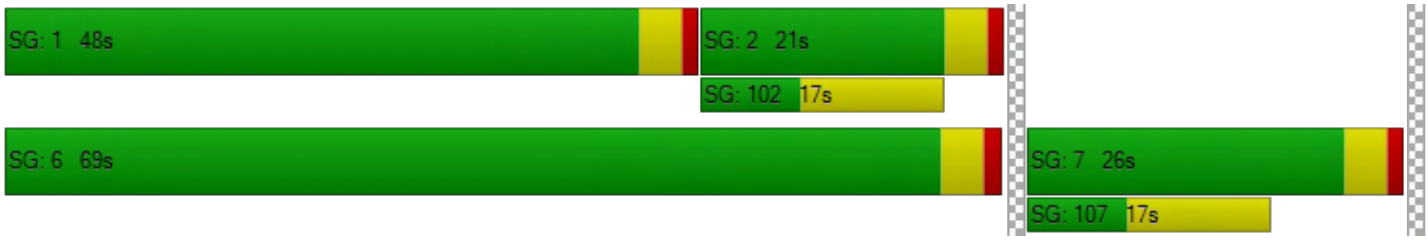
d_M, Delay for Movement [s/veh]	24.94	9.18	47.35	5.46	34.07	47.32
Movement LOS	C	A	D	A	C	D
d_A, Approach Delay [s/veh]	24.33		10.78		45.71	
Approach LOS	C		B		D	
d_I, Intersection Delay [s/veh]	20.07					
Intersection LOS	C					
Intersection V/C	0.886					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	0.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	37.14	0.00	37.14
l_p,int, Pedestrian LOS Score for Intersection	3.280	0.000	2.087
Crosswalk LOS	C	F	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	47.50	47.50	47.50
l_b,int, Bicycle LOS Score for Intersection	5.721	5.443	4.132
Bicycle LOS	F	F	D

Sequence

Ring 1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 16: Palm Dr (NS) at Camino Aventura (EW)

Control Type:	Two-way stop	Delay (sec / veh):	65.0
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.388

Intersection Setup

Name	Palm Dr		Palm Dr		Camino Aventura	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	1	0	0	0
Pocket Length [ft]	100.00	100.00	200.00	100.00	100.00	100.00
Speed [mph]	45.00		45.00		40.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		Yes	

Volumes

Name	Palm Dr		Palm Dr		Camino Aventura	
Base Volume Input [veh/h]	1279	90	61	827	24	61
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	434	36	48	359	11	39
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1764	130	111	1219	36	102
Peak Hour Factor	0.9680	0.9680	0.9680	0.9680	0.9680	0.9680
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	456	34	29	315	9	26
Total Analysis Volume [veh/h]	1822	134	115	1259	37	105
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			Yes
Number of Storage Spaces in Median	0	0	2

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.02	0.00	0.39	0.01	0.39	0.38
d_M, Delay for Movement [s/veh]	0.00	0.00	24.85	0.00	65.00	25.74
Movement LOS	A	A	C	A	F	D
95th-Percentile Queue Length [veh/ln]	0.00	0.00	1.78	0.00	1.57	1.70
95th-Percentile Queue Length [ft/ln]	0.00	0.00	44.54	0.00	39.20	42.47
d_A, Approach Delay [s/veh]	0.00		2.08		35.97	
Approach LOS	A		A		E	
d_I, Intersection Delay [s/veh]	2.29					
Intersection LOS	F					

Intersection Level Of Service Report
Intersection 17: Palm Dr (NS) at Dillon Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	55.3
Analysis Method:	HCM 6th Edition	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.997

Intersection Setup

Name	Palm Dr			Palm Dr			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	1	1	0	1
Pocket Length [ft]	150.00	100.00	100.00	150.00	100.00	100.00	155.00	100.00	155.00	140.00	100.00	140.00
Speed [mph]	60.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	180	1196	248	82	671	73	113	169	111	156	107	103
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	37	87	3	31	117	222	351	148	109	1	48	32
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	224	1331	261	116	815	298	469	324	224	163	159	139
Peak Hour Factor	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	60	356	70	31	218	80	125	87	60	44	43	37
Total Analysis Volume [veh/h]	240	1424	279	124	872	319	502	347	240	174	170	149
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	105
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	19	39	0	12	32	0	33	21	0	33	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	105	105	105	105	105	105	105	105	105	105	105	105
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	15	40	40	8	33	33	29	29	29	12	12	12
g / C, Green / Cycle	0.14	0.38	0.38	0.08	0.31	0.31	0.28	0.27	0.27	0.12	0.11	0.11
(v / s)_i Volume / Saturation Flow Rate	0.13	0.40	0.18	0.07	0.24	0.20	0.28	0.19	0.15	0.10	0.09	0.09
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	256	1349	602	138	1114	497	491	510	434	211	216	184
d1, Uniform Delay [s]	44.60	32.68	24.61	48.12	32.89	31.07	38.12	34.16	32.76	45.33	45.26	45.40
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.44	0.15	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	14.99	40.52	2.55	17.68	5.50	6.23	44.09	2.20	1.10	7.91	6.19	8.23
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.94	1.06	0.46	0.90	0.78	0.64	1.02	0.68	0.55	0.83	0.79	0.81
d, Delay for Lane Group [s/veh]	59.59	73.20	27.17	65.80	38.39	37.30	82.21	36.35	33.87	53.23	51.46	53.64
Lane Group LOS	E	F	C	E	D	D	F	D	C	D	D	D
Critical Lane Group	No	Yes	No	Yes	No	No	Yes	No	No	No	No	Yes
50th-Percentile Queue Length [veh/ln]	6.83	22.65	5.12	3.74	10.10	7.25	17.62	7.64	5.00	4.66	4.45	4.01
50th-Percentile Queue Length [ft/ln]	170.65	566.20	127.89	93.40	252.56	181.36	440.39	191.01	124.89	116.40	111.32	100.21
95th-Percentile Queue Length [veh/ln]	11.11	31.62	8.83	6.72	15.31	11.67	24.84	12.17	8.66	8.19	7.91	7.21
95th-Percentile Queue Length [ft/ln]	277.77	790.42	220.63	168.11	382.87	291.79	621.09	304.34	216.53	204.87	197.84	180.37

Movement, Approach, & Intersection Results

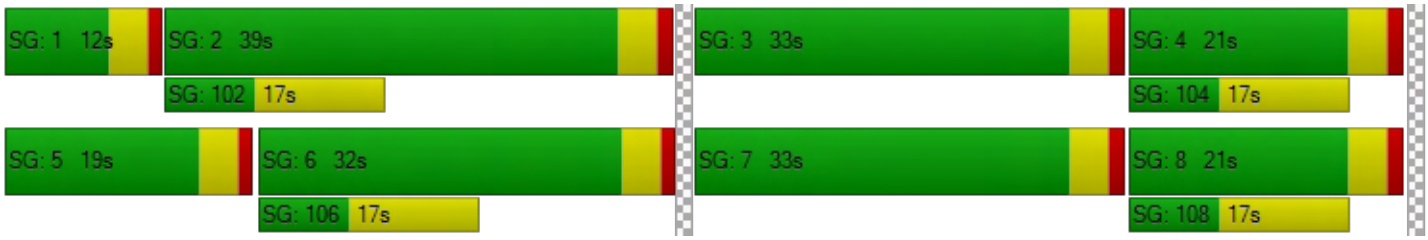
d_M, Delay for Movement [s/veh]	59.59	73.20	27.17	65.80	38.39	37.30	82.21	36.35	33.87	53.23	51.46	53.64
Movement LOS	E	F	C	E	D	D	F	D	C	D	D	D
d_A, Approach Delay [s/veh]	64.91			40.71			56.94			52.74		
Approach LOS	E			D			E			D		
d_I, Intersection Delay [s/veh]	55.30											
Intersection LOS	E											
Intersection V/C	0.997											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	42.08	42.08	42.08	42.08
l_p,int, Pedestrian LOS Score for Intersection	3.501	3.467	2.951	2.694
Crosswalk LOS	D	C	C	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	667	533	324	324
d_b, Bicycle Delay [s]	23.33	28.23	36.88	36.88
l_b,int, Bicycle LOS Score for Intersection	3.163	2.644	3.356	2.373
Bicycle LOS	C	B	C	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 18: Palm Dr (NS) at Varner Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	13.3
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.797

Intersection Setup

Name	Palm Dr			Palm Dr			Varner Rd			Varner Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	0	0	0	0	0	0
Pocket Length [ft]	173.00	100.00	100.00	195.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	60.00			60.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Varner Rd			Varner Rd		
Base Volume Input [veh/h]	1	1618	36	20	894	0	0	1	1	35	1	29
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	29	69	0	72	149	6	25	26	81	0	10	33
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	30	1785	38	93	1097	6	25	27	82	37	11	64
Peak Hour Factor	0.9320	0.9320	0.9320	0.9320	0.9320	0.9320	0.9320	0.9320	0.9320	0.9320	0.9320	0.9320
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	8	479	10	25	294	2	7	7	22	10	3	17
Total Analysis Volume [veh/h]	32	1915	41	100	1177	6	27	29	88	40	12	69
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	80
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	5	2	0	1	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	-	-	-	-	-	-
Minimum Green [s]	7	7	0	7	7	0	0	7	0	0	7	0
Maximum Green [s]	30	30	0	30	30	0	0	30	0	0	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	11	47	0	12	48	0	0	21	0	0	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall	No	No		No	No			No			No	
Maximum Recall	No	No		No	No			No			No	
Pedestrian Recall	No	No		No	No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	C	C
C, Cycle Length [s]	80	80	80	80	80	80	80	80
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	4	53	53	6	56	56	8	8
g / C, Green / Cycle	0.05	0.67	0.67	0.08	0.70	0.70	0.10	0.10
(v / s)_i Volume / Saturation Flow Rate	0.02	0.54	0.03	0.06	0.33	0.00	0.08	0.08
s, saturation flow rate [veh/h]	1781	3560	1589	1781	3560	1589	1728	1580
c, Capacity [veh/h]	82	2375	1060	141	2494	1113	233	224
d1, Uniform Delay [s]	37.11	9.60	4.56	35.97	5.37	3.61	35.09	34.75
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	3.01	3.05	0.07	6.39	0.64	0.01	2.67	2.02
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.39	0.81	0.04	0.71	0.47	0.01	0.62	0.54
d, Delay for Lane Group [s/veh]	40.12	12.65	4.62	42.36	6.01	3.62	37.76	36.77
Lane Group LOS	D	B	A	D	A	A	D	D
Critical Lane Group	No	Yes	No	Yes	No	No	Yes	No
50th-Percentile Queue Length [veh/ln]	0.62	7.51	0.15	1.97	2.33	0.02	2.67	2.21
50th-Percentile Queue Length [ft/ln]	15.54	187.67	3.80	49.27	58.23	0.43	66.77	55.19
95th-Percentile Queue Length [veh/ln]	1.12	12.00	0.27	3.55	4.19	0.03	4.81	3.97
95th-Percentile Queue Length [ft/ln]	27.98	300.00	6.85	88.68	104.82	0.77	120.18	99.34

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	40.12	12.65	4.62	42.36	6.01	3.62	37.76	37.76	37.76	36.77	36.77	36.77
Movement LOS	D	B	A	D	A	A	D	D	D	D	D	D
d_A, Approach Delay [s/veh]	12.93			8.84			37.76			36.77		
Approach LOS	B			A			D			D		
d_I, Intersection Delay [s/veh]	13.27											
Intersection LOS	B											
Intersection V/C	0.797											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	29.76	29.76	29.76
l_p,int, Pedestrian LOS Score for Intersection	0.000	3.543	1.882	1.968
Crosswalk LOS	F	D	A	A
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	1075	1100	425	425
d_b, Bicycle Delay [s]	8.56	8.10	24.81	24.81
l_b,int, Bicycle LOS Score for Intersection	3.200	2.618	1.797	1.759
Bicycle LOS	C	B	A	A

Sequence

Ring 1	1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



DHS 109

Vistro File: G:\...\AM OY MIT.vistro

Scenario 2 Existing Plus Ambient (2021) Plus Cumulative Plus Project

Report File: G:\...\AM EACP MIT.pdf

5/16/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
2	Indian Canyon Dr (NS) at Pierson Blvd (EW)	Signalized	HCM 6th Edition	WB Left	0.654	17.5	B
3	Indian Canyon Dr (NS) at Dillon Rd (EW)	Signalized	HCM 6th Edition	EB Left	0.975	42.3	D
7	Little Morongo Rd (NS) at Pierson Blvd (EW)	Signalized	HCM 6th Edition	NB Left	0.616	15.9	B
8	Little Morongo Rd (NS) at 14th Ave/2 Bunch Palms (EW)	Signalized	HCM 6th Edition	EB Left	0.845	27.2	C
9	Little Morongo Rd (NS) at 15th Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.507	4.4	A
10	Little Morongo Rd (NS) at Dillon Rd (EW)	Signalized	HCM 6th Edition	SB Right	0.937	54.9	D
11	Atlantic Ave (NS) at Dillon Rd (EW)	Two-way stop	HCM 6th Edition	SB Right	0.032	19.9	C
14	Palm Dr (NS) at Two Bunch Palms Trail (EW)	Signalized	HCM 6th Edition	EB Right	0.753	44.1	D
16	Palm Dr (NS) at Camino Aventura (EW)	Signalized	HCM 6th Edition	SB Left	0.846	10.8	B
17	Palm Dr (NS) at Dillon Rd (EW)	Signalized	HCM 6th Edition	WB Thru	1.024	53.8	D

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 2: Indian Canyon Dr (NS) at Pierson Blvd (EW)

Control Type:	Signalized	Delay (sec / veh):	17.5
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.654

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Pierson Blvd			Pierson Blvd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			55.00			50.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			No			No			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Pierson Blvd			Pierson Blvd		
Base Volume Input [veh/h]	8	134	91	48	248	29	21	89	33	127	52	20
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	17	48	36	86	161	0	0	107	65	105	33	24
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	25	187	131	136	419	30	22	200	99	237	87	45
Peak Hour Factor	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360	0.8360
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	7	56	39	41	125	9	7	60	30	71	26	13
Total Analysis Volume [veh/h]	30	224	157	163	501	36	26	239	118	283	104	54
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-
Minimum Green [s]	0	7	0	0	7	0	0	7	0	0	7	0
Maximum Green [s]	0	30	0	0	30	0	0	30	0	0	30	0
Amber [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	0	30	0	0	30	0	0	30	0	0	30	0
Vehicle Extension [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall		No			No			No			No	
Maximum Recall		No			No			No			No	
Pedestrian Recall		No			No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	L	C	L	C	L	C
C, Cycle Length [s]	60	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	0.00	2.00	0.00	2.00	0.00	2.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	26	26	26	26	26	26	26	26
g / C, Green / Cycle	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
(v / s)_i Volume / Saturation Flow Rate	0.03	0.22	0.16	0.29	0.02	0.20	0.28	0.09
s, saturation flow rate [veh/h]	868	1743	1002	1848	1228	1767	1024	1764
c, Capacity [veh/h]	266	756	365	801	546	766	385	765
d1, Uniform Delay [s]	21.53	12.37	20.53	13.62	13.10	12.11	22.78	10.62
k, delay calibration	0.50	0.50	0.50	0.50	0.11	0.11	0.12	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.86	2.39	3.93	4.43	0.04	0.44	3.12	0.13
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.11	0.50	0.45	0.67	0.05	0.47	0.73	0.21
d, Delay for Lane Group [s/veh]	22.38	14.76	24.46	18.05	13.14	12.55	25.91	10.75
Lane Group LOS	C	B	C	B	B	B	C	B
Critical Lane Group	No	No	No	Yes	No	No	Yes	No
50th-Percentile Queue Length [veh/ln]	0.37	3.16	2.07	5.10	0.19	2.53	3.69	1.01
50th-Percentile Queue Length [ft/ln]	9.24	78.89	51.82	127.62	4.70	63.21	92.27	25.30
95th-Percentile Queue Length [veh/ln]	0.67	5.68	3.73	8.81	0.34	4.55	6.64	1.82
95th-Percentile Queue Length [ft/ln]	16.64	142.00	93.28	220.25	8.47	113.78	166.09	45.54

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	22.38	14.76	14.76	24.46	18.05	18.05	13.14	12.55	12.55	25.91	10.75	10.75
Movement LOS	C	B	B	C	B	B	B	B	B	C	B	B
d_A, Approach Delay [s/veh]	15.32			19.54			12.59			20.48		
Approach LOS	B			B			B			C		
d_I, Intersection Delay [s/veh]	17.48											
Intersection LOS	B											
Intersection V/C	0.654											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000	0.000
Crosswalk LOS	F	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	867	867	867	867
d_b, Bicycle Delay [s]	9.63	9.63	9.63	9.63
l_b,int, Bicycle LOS Score for Intersection	2.238	2.715	2.192	2.287
Bicycle LOS	B	B	B	B

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 3: Indian Canyon Dr (NS) at Dillon Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	42.3
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.975

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			No			No			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	16	193	119	17	410	16	4	78	50	346	72	18
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	19	91	751	40	290	0	0	100	62	448	32	9
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	36	292	875	58	716	17	4	181	114	808	107	28
Peak Hour Factor	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	10	81	244	16	200	5	1	50	32	225	30	8
Total Analysis Volume [veh/h]	40	326	975	65	798	19	4	202	127	901	119	31
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	120
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	2	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups			2,7									
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	7	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	30	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	3.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	11	55	55	11	55	0	40	18	0	36	14	0
Vehicle Extension [s]	3.0	3.0	3.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	7	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	10	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No	No	No	No		No	No		No	No	
Maximum Recall	No	No	No	No	No		No	No		No	No	
Pedestrian Recall	No	No	No	No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C
C, Cycle Length [s]	120	120	120	120	120	120	120	120	120	120	120
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	0.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	5	52	88	6	53	53	1	14	14	32	45
g / C, Green / Cycle	0.04	0.43	0.73	0.05	0.44	0.44	0.01	0.12	0.12	0.27	0.38
(v / s)_i Volume / Saturation Flow Rate	0.02	0.17	0.61	0.04	0.43	0.01	0.00	0.11	0.08	0.26	0.08
s, saturation flow rate [veh/h]	1781	1870	1589	1781	1870	1589	1781	1870	1589	3459	1804
c, Capacity [veh/h]	78	805	1160	93	821	698	15	220	187	922	678
d1, Uniform Delay [s]	56.15	23.60	11.32	55.94	32.97	19.13	59.18	52.40	50.80	43.68	25.51
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	5.12	1.52	7.40	8.94	25.39	0.07	9.62	14.34	4.28	9.50	0.16
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.51	0.41	0.84	0.70	0.97	0.03	0.27	0.92	0.68	0.98	0.22
d, Delay for Lane Group [s/veh]	61.27	25.12	18.72	64.88	58.36	19.20	68.80	66.74	55.08	53.18	25.67
Lane Group LOS	E	C	B	E	E	B	E	E	E	D	C
Critical Lane Group	No	No	Yes	Yes	No	No	No	Yes	No	Yes	No
50th-Percentile Queue Length [veh/ln]	1.25	6.24	14.88	2.09	26.20	0.30	0.16	6.63	3.73	13.66	2.78
50th-Percentile Queue Length [ft/ln]	31.29	156.07	372.02	52.32	655.02	7.40	3.89	165.78	93.26	341.60	69.42
95th-Percentile Queue Length [veh/ln]	2.25	10.34	21.21	3.77	34.60	0.53	0.28	10.85	6.71	19.73	5.00
95th-Percentile Queue Length [ft/ln]	56.32	258.51	530.18	94.18	864.89	13.32	7.01	271.36	167.86	493.15	124.96

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	61.27	25.12	18.72	64.88	58.36	19.20	68.80	66.74	55.08	53.18	25.67	25.67
Movement LOS	E	C	B	E	E	B	E	E	E	D	C	C
d_A, Approach Delay [s/veh]	21.54			58.00			62.32			49.25		
Approach LOS	C			E			E			D		
d_I, Intersection Delay [s/veh]	42.30											
Intersection LOS	D											
Intersection V/C	0.975											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000	0.000
Crosswalk LOS	F	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	850	850	233	167
d_b, Bicycle Delay [s]	19.84	19.84	46.82	50.42
l_b,int, Bicycle LOS Score for Intersection	3.772	3.015	2.109	3.294
Bicycle LOS	D	C	B	C

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 7: Little Morongo Rd (NS) at Pierson Blvd (EW)

Control Type:	Signalized	Delay (sec / veh):	15.9
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.616

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			Pierson Blvd			Pierson Blvd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			45.00			50.00			50.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			Pierson Blvd			Pierson Blvd		
Base Volume Input [veh/h]	7	36	22	26	88	22	3	113	38	26	148	26
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	56	77	35	0	251	51	16	22	192	127	56	1
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	63	115	59	28	347	75	19	145	234	155	216	29
Peak Hour Factor	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560	0.8560
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	18	34	17	8	101	22	6	42	68	45	63	8
Total Analysis Volume [veh/h]	74	134	69	33	405	88	22	169	273	181	252	34
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-
Minimum Green [s]	0	7	0	0	7	0	0	7	0	0	7	0
Maximum Green [s]	0	30	0	0	30	0	0	30	0	0	30	0
Amber [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	0	29	0	0	29	0	0	31	0	0	31	0
Vehicle Extension [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall		No			No			No			No	
Maximum Recall		No			No			No			No	
Pedestrian Recall		No			No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	L	C	L	C	L	C
C, Cycle Length [s]	60	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	0.00	2.00	0.00	2.00	0.00	2.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	25	25	25	25	27	27	27	27
g / C, Green / Cycle	0.42	0.42	0.42	0.42	0.45	0.45	0.45	0.45
(v / s)_i Volume / Saturation Flow Rate	0.08	0.12	0.03	0.27	0.02	0.26	0.19	0.16
s, saturation flow rate [veh/h]	904	1764	1179	1813	1093	1686	947	1832
c, Capacity [veh/h]	278	738	492	759	459	756	324	821
d1, Uniform Delay [s]	22.31	11.49	14.49	13.96	14.60	12.40	22.89	10.84
k, delay calibration	0.50	0.50	0.50	0.50	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.34	0.92	0.26	4.28	0.04	0.72	1.51	0.25
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.27	0.27	0.07	0.65	0.05	0.58	0.56	0.35
d, Delay for Lane Group [s/veh]	24.65	12.41	14.76	18.24	14.64	13.12	24.41	11.09
Lane Group LOS	C	B	B	B	B	B	C	B
Critical Lane Group	No	No	No	Yes	No	Yes	No	No
50th-Percentile Queue Length [veh/ln]	0.97	1.50	0.30	5.07	0.18	3.38	2.22	1.89
50th-Percentile Queue Length [ft/ln]	24.20	37.39	7.58	126.71	4.46	84.61	55.38	47.17
95th-Percentile Queue Length [veh/ln]	1.74	2.69	0.55	8.76	0.32	6.09	3.99	3.40
95th-Percentile Queue Length [ft/ln]	43.56	67.30	13.65	219.01	8.03	152.29	99.68	84.91

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	24.65	12.41	12.41	14.76	18.24	18.24	14.64	13.12	13.12	24.41	11.09	11.09
Movement LOS	C	B	B	B	B	B	B	B	B	C	B	B
d_A, Approach Delay [s/veh]	15.68			18.02			13.19			16.25		
Approach LOS	B			B			B			B		
d_I, Intersection Delay [s/veh]	15.88											
Intersection LOS	B											
Intersection V/C	0.616											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000	0.000
Crosswalk LOS	F	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	833	833	900	900
d_b, Bicycle Delay [s]	10.21	10.21	9.08	9.08
l_b,int, Bicycle LOS Score for Intersection	2.017	2.428	2.325	2.330
Bicycle LOS	B	B	B	B

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report

Intersection 8: Little Morongo Rd (NS) at 14th Ave/2 Bunch Palms (EW)

Control Type:	Signalized	Delay (sec / veh):	27.2
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.845

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			14th Ave			Two Bunch Palms Trail		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			30.00			45.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			14th Ave			Two Bunch Palms Trail		
Base Volume Input [veh/h]	2	123	80	84	211	1	1	8	15	187	6	29
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	275	147	65	499	0	0	0	0	408	0	112
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	2	405	232	154	723	1	1	8	16	607	6	143
Peak Hour Factor	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690	0.8690
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	117	67	44	208	0	0	2	5	175	2	41
Total Analysis Volume [veh/h]	2	466	267	177	832	1	1	9	18	699	7	165
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	75
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	11	26	0	17	32	0	11	11	0	21	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	L	C	L	C
C, Cycle Length [s]	75	75	75	75	75	75	75	75	75
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	0	30	30	9	39	0	3	17	20
g / C, Green / Cycle	0.00	0.40	0.40	0.12	0.52	0.00	0.04	0.22	0.26
(v / s)_i Volume / Saturation Flow Rate	0.00	0.25	0.17	0.10	0.45	0.00	0.02	0.20	0.11
s, saturation flow rate [veh/h]	1781	1870	1589	1781	1870	1781	1673	3459	1599
c, Capacity [veh/h]	10	741	630	221	963	6	70	780	421
d1, Uniform Delay [s]	37.25	18.26	16.48	32.05	15.96	37.38	35.12	28.29	22.87
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	10.23	4.02	2.09	6.61	10.27	11.50	3.50	3.98	0.64
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.21	0.63	0.42	0.80	0.87	0.16	0.39	0.90	0.41
d, Delay for Lane Group [s/veh]	47.48	22.28	18.56	38.67	26.23	48.87	38.62	32.27	23.50
Lane Group LOS	D	C	B	D	C	D	D	C	C
Critical Lane Group	Yes	No	No	No	Yes	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	0.06	6.13	3.11	3.21	11.86	0.04	0.54	5.95	2.35
50th-Percentile Queue Length [ft/ln]	1.52	153.19	77.63	80.29	296.56	0.95	13.44	148.85	58.76
95th-Percentile Queue Length [veh/ln]	0.11	10.19	5.59	5.78	17.51	0.07	0.97	9.96	4.23
95th-Percentile Queue Length [ft/ln]	2.74	254.68	139.74	144.53	437.77	1.71	24.20	248.89	105.77

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	47.48	22.28	18.56	38.67	26.23	26.23	48.87	38.62	38.62	32.27	23.50	23.50
Movement LOS	D	C	B	D	C	C	D	D	D	C	C	C
d_A, Approach Delay [s/veh]	21.00			28.41			38.99			30.54		
Approach LOS	C			C			D			C		
d_I, Intersection Delay [s/veh]	27.16											
Intersection LOS	C											
Intersection V/C	0.845											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000	0.000
Crosswalk LOS	F	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	587	747	187	453
d_b, Bicycle Delay [s]	18.73	14.73	30.83	22.43
l_b,int, Bicycle LOS Score for Intersection	2.772	3.226	1.606	2.997
Bicycle LOS	C	C	A	C

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 9: Little Morongo Rd (NS) at 15th Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	4.4
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.507

Intersection Setup

Name	Little Morongo Rd		Little Morongo Rd		15th Ave	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	No		No		No	

Volumes

Name	Little Morongo Rd		Little Morongo Rd		15th Ave	
Base Volume Input [veh/h]	205	0	0	413	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	544	316	143	305	50	19
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	757	316	143	735	50	19
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	199	83	38	193	13	5
Total Analysis Volume [veh/h]	797	333	151	774	53	20
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	80
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	2	0	0	6	7	0
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-
Minimum Green [s]	7	0	0	7	7	0
Maximum Green [s]	30	0	0	30	30	0
Amber [s]	3.0	0.0	0.0	3.0	3.0	0.0
All red [s]	1.0	0.0	0.0	1.0	1.0	0.0
Split [s]	68	0	0	68	12	0
Vehicle Extension [s]	3.0	0.0	0.0	3.0	3.0	0.0
Walk [s]	7	0	0	7	7	0
Pedestrian Clearance [s]	10	0	0	10	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
Minimum Recall	No			No	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	C	L	C	C
C, Cycle Length [s]	80	80	80	80	80
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	2.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	66	66	66	66	6
g / C, Green / Cycle	0.83	0.83	0.83	0.83	0.07
(v / s)_i Volume / Saturation Flow Rate	0.30	0.33	0.30	0.41	0.04
s, saturation flow rate [veh/h]	1870	1694	498	1870	1724
c, Capacity [veh/h]	1549	1403	443	1549	123
d1, Uniform Delay [s]	1.68	1.76	4.86	2.00	36.00
k, delay calibration	0.50	0.50	0.50	0.50	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.67	0.86	2.08	1.15	4.51
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.36	0.40	0.34	0.50	0.59
d, Delay for Lane Group [s/veh]	2.35	2.62	6.94	3.16	40.51
Lane Group LOS	A	A	A	A	D
Critical Lane Group	No	No	No	Yes	Yes
50th-Percentile Queue Length [veh/ln]	1.02	1.11	1.03	1.70	1.51
50th-Percentile Queue Length [ft/ln]	25.58	27.69	25.74	42.47	37.69
95th-Percentile Queue Length [veh/ln]	1.84	1.99	1.85	3.06	2.71
95th-Percentile Queue Length [ft/ln]	46.05	49.84	46.33	76.44	67.85

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	2.43	2.62	6.94	3.16	40.51	40.51
Movement LOS	A	A	A	A	D	D
d_A, Approach Delay [s/veh]	2.49		3.78		40.51	
Approach LOS	A		A		D	
d_I, Intersection Delay [s/veh]	4.35					
Intersection LOS	A					
Intersection V/C	0.507					

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00
I_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000
Crosswalk LOS	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	40.00	40.00	40.00
I_b,int, Bicycle LOS Score for Intersection	5.065	5.659	4.253
Bicycle LOS	F	F	E

Sequence

Ring 1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 10: Little Morongo Rd (NS) at Dillon Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	54.9
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.937

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	1	0	0	1	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	205.00	100.00	100.00	146.00	100.00	100.00
Speed [mph]	30.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	0	0	2	117	0	173	61	75	1	1	200	42
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	34	31	30	76	99	156	607	160	125	97	299	329
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	34	31	32	203	99	343	673	241	126	98	515	375
Peak Hour Factor	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390	0.9390
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	9	8	9	54	26	91	179	64	34	26	137	100
Total Analysis Volume [veh/h]	36	33	34	216	105	365	717	257	134	104	548	399
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	115
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	11	21	0	26	36	0	28	29	0	39	40	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	L	C	L	C	L	C	R
C, Cycle Length [s]	115	115	115	115	115	115	115	115	115
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	5	23	16	34	24	52	8	36	36
g / C, Green / Cycle	0.04	0.20	0.14	0.30	0.21	0.45	0.07	0.31	0.31
(v / s)_i Volume / Saturation Flow Rate	0.02	0.04	0.12	0.29	0.21	0.22	0.06	0.29	0.25
s, saturation flow rate [veh/h]	1781	1716	1781	1645	3459	1763	1781	1870	1589
c, Capacity [veh/h]	74	344	246	489	728	790	131	583	495
d1, Uniform Delay [s]	53.91	38.24	48.59	39.76	45.23	22.49	52.39	38.54	36.38
k, delay calibration	0.11	0.11	0.11	0.43	0.11	0.50	0.11	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	4.86	0.27	9.59	29.22	12.45	2.21	10.16	25.16	13.10
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.49	0.19	0.88	0.96	0.99	0.49	0.79	0.94	0.81
d, Delay for Lane Group [s/veh]	58.76	38.51	58.18	68.98	57.67	24.70	62.55	63.70	49.48
Lane Group LOS	E	D	E	E	E	C	E	E	D
Critical Lane Group	Yes	No	No	Yes	Yes	No	No	Yes	No
50th-Percentile Queue Length [veh/ln]	1.12	1.61	6.43	16.09	10.86	7.32	3.19	17.99	11.36
50th-Percentile Queue Length [ft/ln]	27.97	40.13	160.86	402.30	271.44	183.05	79.86	449.68	284.12
95th-Percentile Queue Length [veh/ln]	2.01	2.89	10.59	22.67	16.26	11.76	5.75	24.94	16.89
95th-Percentile Queue Length [ft/ln]	50.35	72.24	264.86	566.77	406.53	293.99	143.76	623.57	422.34

Movement, Approach, & Intersection Results

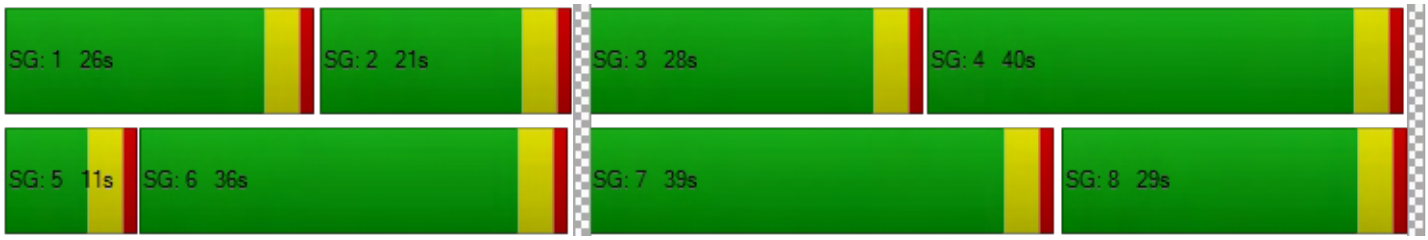
d_M, Delay for Movement [s/veh]	58.76	38.51	38.51	58.18	68.98	68.98	57.67	24.70	24.70	62.55	63.70	49.48
Movement LOS	E	D	D	E	E	E	E	C	C	E	E	D
d_A, Approach Delay [s/veh]	45.59			65.58			46.04			58.19		
Approach LOS	D			E			D			E		
d_I, Intersection Delay [s/veh]	54.90											
Intersection LOS	D											
Intersection V/C	0.937											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000	0.000
Crosswalk LOS	F	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	296	557	435	626
d_b, Bicycle Delay [s]	41.76	29.95	35.22	27.13
l_b,int, Bicycle LOS Score for Intersection	1.730	2.692	3.388	3.294
Bicycle LOS	A	B	C	C

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 11: Atlantic Ave (NS) at Dillon Rd (EW)

Control Type:	Two-way stop	Delay (sec / veh):	19.9
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.032

Intersection Setup

Name	Atlantic Ave		Dillon Rd		Dillon Rd	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		55.00		55.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		No	

Volumes

Name	Atlantic Ave		Dillon Rd		Dillon Rd	
Base Volume Input [veh/h]	0	8	3	263	345	1
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	266	725	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	8	3	551	1098	1
Peak Hour Factor	0.9750	0.9750	0.9750	0.9750	0.9750	0.9750
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	2	1	141	282	0
Total Analysis Volume [veh/h]	0	8	3	565	1126	1
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.03	0.00	0.01	0.01	0.00
d_M, Delay for Movement [s/veh]	0.00	19.94	10.84	0.00	0.00	0.00
Movement LOS		C	B	A	A	A
95th-Percentile Queue Length [veh/ln]	0.00	0.10	0.01	0.01	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	2.48	0.36	0.36	0.00	0.00
d_A, Approach Delay [s/veh]	19.94		0.06		0.00	
Approach LOS	C		A		A	
d_I, Intersection Delay [s/veh]	0.11					
Intersection LOS	C					

Intersection Level Of Service Report
Intersection 14: Palm Dr (NS) at Two Bunch Palms Trail (EW)

Control Type:	Signalized	Delay (sec / veh):	44.1
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.753

Intersection Setup

Name	Palm Dr			Palm Dr			Two Bunch Palms Trail			Two Bunch Palms Trail		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	1
Pocket Length [ft]	96.00	100.00	100.00	101.00	100.00	100.00	95.00	100.00	100.00	70.00	100.00	130.00
Speed [mph]	40.00			35.00			40.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Two Bunch Palms Trail			Two Bunch Palms Trail		
Base Volume Input [veh/h]	181	594	188	64	885	24	40	182	373	259	139	45
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	175	161	22	1	323	253	72	30	68	42	102	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	367	791	222	69	1262	278	115	223	463	317	250	48
Peak Hour Factor	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540	0.8540
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	107	232	65	20	369	81	34	65	136	93	73	14
Total Analysis Volume [veh/h]	430	926	260	81	1478	326	135	261	542	371	293	56
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	95
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	8	7	4	0
Auxiliary Signal Groups									5,8			
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	7	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	30	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0
Split [s]	18	27	0	20	29	0	27	23	23	25	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	7	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	10	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No	No	No	No	
Maximum Recall	No	No		No	No		No	No	No	No	No	
Pedestrian Recall	No	No		No	No		No	No	No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	95	95	95	95	95	95	95	95	95	95	95	95
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	0.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	14	36	36	6	28	28	9	16	34	21	28	28
g / C, Green / Cycle	0.15	0.37	0.37	0.07	0.29	0.29	0.10	0.17	0.36	0.22	0.30	0.30
(v / s)_i Volume / Saturation Flow Rate	0.12	0.26	0.16	0.05	0.29	0.21	0.08	0.14	0.34	0.21	0.16	0.04
s, saturation flow rate [veh/h]	3459	3560	1589	1781	5094	1589	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	511	1331	594	118	1489	464	171	319	573	394	553	470
d1, Uniform Delay [s]	39.46	25.20	22.30	43.48	33.58	29.98	42.08	38.02	29.52	36.47	27.96	24.44
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.50	0.20	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	3.83	3.02	2.33	6.96	21.70	8.57	7.93	5.12	26.31	17.86	0.79	0.11
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.84	0.70	0.44	0.69	0.99	0.70	0.79	0.82	0.95	0.94	0.53	0.12
d, Delay for Lane Group [s/veh]	43.29	28.23	24.63	50.44	55.28	38.56	50.02	43.14	55.82	54.33	28.75	24.56
Lane Group LOS	D	C	C	D	E	D	D	D	E	D	C	C
Critical Lane Group	No	No	No	No	Yes	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	4.98	8.81	4.48	2.06	13.80	7.50	3.38	6.09	15.34	10.14	5.50	0.91
50th-Percentile Queue Length [ft/ln]	124.50	220.26	112.11	51.44	345.12	187.40	84.47	152.13	383.39	253.42	137.39	22.81
95th-Percentile Queue Length [veh/ln]	8.64	13.68	7.96	3.70	19.90	11.99	6.08	10.13	21.76	15.36	9.34	1.64
95th-Percentile Queue Length [ft/ln]	215.99	341.96	198.94	92.60	497.46	299.66	152.05	253.27	543.95	383.96	233.51	41.06

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	43.29	28.23	24.63	50.44	55.28	38.56	50.02	43.14	55.82	54.33	28.75	24.56
Movement LOS	D	C	C	D	E	D	D	D	E	D	C	C
d_A, Approach Delay [s/veh]	31.66			52.18			51.46			41.61		
Approach LOS	C			D			D			D		
d_I, Intersection Delay [s/veh]	44.14											
Intersection LOS	D											
Intersection V/C	0.753											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	37.14	37.14	37.14	37.14
l_p,int, Pedestrian LOS Score for Intersection	3.379	3.084	2.819	2.509
Crosswalk LOS	C	C	C	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	484	526	400	358
d_b, Bicycle Delay [s]	27.28	25.79	30.40	32.02
l_b,int, Bicycle LOS Score for Intersection	2.893	2.596	3.107	2.748
Bicycle LOS	C	B	C	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 16: Palm Dr (NS) at Camino Aventura (EW)

Control Type:	Signalized	Delay (sec / veh):	10.8
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.846

Intersection Setup

Name	Palm Dr		Palm Dr		Camino Aventura	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	1	0	0	0
Pocket Length [ft]	100.00	100.00	200.00	100.00	100.00	100.00
Speed [mph]	45.00		45.00		40.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	No		No		Yes	

Volumes

Name	Palm Dr		Palm Dr		Camino Aventura	
Base Volume Input [veh/h]	608	14	77	1295	24	92
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	307	14	19	374	53	45
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	939	29	99	1721	78	141
Peak Hour Factor	0.8290	0.8290	0.8290	0.8290	0.8290	0.8290
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	283	9	30	519	24	43
Total Analysis Volume [veh/h]	1133	35	119	2076	94	170
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	65
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Permissive	Permissive	Protected	Permissive	Split	Split
Signal group	2	0	1	6	7	0
Auxiliary Signal Groups						
Lead / Lag	-	-	Lead	-	Lead	-
Minimum Green [s]	7	0	7	7	7	0
Maximum Green [s]	30	0	30	30	30	0
Amber [s]	3.0	0.0	3.0	3.0	3.0	0.0
All red [s]	1.0	0.0	1.0	1.0	1.0	0.0
Split [s]	30	0	20	50	15	0
Vehicle Extension [s]	3.0	0.0	3.0	3.0	3.0	0.0
Walk [s]	7	0	0	7	7	0
Pedestrian Clearance [s]	10	0	0	10	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	0.0	2.0	2.0	2.0	0.0
Minimum Recall	No		No	No	No	
Maximum Recall	No		No	No	No	
Pedestrian Recall	No		No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	R	L	C	L	R
C, Cycle Length [s]	65	65	65	65	65	65
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	38	38	6	48	9	9
g / C, Green / Cycle	0.58	0.58	0.10	0.74	0.14	0.14
(v / s)_i Volume / Saturation Flow Rate	0.32	0.02	0.07	0.58	0.05	0.11
s, saturation flow rate [veh/h]	3560	1589	1781	3560	1781	1589
c, Capacity [veh/h]	2072	925	172	2635	244	218
d1, Uniform Delay [s]	8.35	5.82	28.48	5.28	25.60	27.16
k, delay calibration	0.50	0.50	0.11	0.50	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	1.04	0.08	4.87	2.47	0.99	5.97
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.55	0.04	0.69	0.79	0.38	0.78
d, Delay for Lane Group [s/veh]	9.39	5.90	33.35	7.75	26.60	33.13
Lane Group LOS	A	A	C	A	C	C
Critical Lane Group	No	No	No	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	3.60	0.16	1.86	3.70	1.29	2.70
50th-Percentile Queue Length [ft/ln]	89.92	4.04	46.56	92.45	32.13	67.44
95th-Percentile Queue Length [veh/ln]	6.47	0.29	3.35	6.66	2.31	4.86
95th-Percentile Queue Length [ft/ln]	161.86	7.27	83.80	166.41	57.84	121.40

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	9.39	5.90	33.35	7.75	26.60	33.13
Movement LOS	A	A	C	A	C	C
d_A, Approach Delay [s/veh]	9.29		9.14		30.80	
Approach LOS	A		A		C	
d_I, Intersection Delay [s/veh]	10.76					
Intersection LOS	B					
Intersection V/C	0.846					

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	22.43
I_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	2.103
Crosswalk LOS	F	F	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	32.50	32.50	32.50
I_b,int, Bicycle LOS Score for Intersection	5.096	5.943	4.132
Bicycle LOS	F	F	D

Sequence

Ring 1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 17: Palm Dr (NS) at Dillon Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	53.8
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.024

Intersection Setup

Name	Palm Dr			Palm Dr			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	1	1	0	1
Pocket Length [ft]	150.00	100.00	100.00	150.00	100.00	100.00	155.00	100.00	155.00	140.00	100.00	140.00
Speed [mph]	60.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	116	510	44	21	1220	52	50	67	262	338	215	59
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	164	145	1	10	84	333	159	65	42	4	228	17
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	285	675	47	32	1353	387	211	135	314	356	452	78
Peak Hour Factor	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140	0.9140
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	78	185	13	9	370	106	58	37	86	97	124	21
Total Analysis Volume [veh/h]	312	739	51	35	1480	423	231	148	344	389	495	85
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	100
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	6	3	8	8	7	4	0
Auxiliary Signal Groups						3,6			5,8			
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	7	7	7	7	7	7	0
Maximum Green [s]	30	30	0	30	30	30	30	30	30	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
Split [s]	21	25	0	28	32	32	17	21	21	26	30	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	7	0	7	7	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	10	0	10	10	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No	No	No	No	No	No	No	
Maximum Recall	No	No		No	No	No	No	No	No	No	No	
Pedestrian Recall	No	No		No	No	No	No	No	No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	100	100	100	100	100	100	100	100	100	100	100	100
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	0.00	2.00	2.00	0.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	17	41	41	4	28	45	13	17	38	22	26	26
g / C, Green / Cycle	0.17	0.41	0.41	0.04	0.28	0.45	0.13	0.17	0.38	0.22	0.26	0.26
(v / s)_i Volume / Saturation Flow Rate	0.18	0.21	0.03	0.02	0.29	0.27	0.13	0.08	0.22	0.22	0.26	0.05
s, saturation flow rate [veh/h]	1781	3560	1589	1781	5094	1589	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	303	1452	648	78	1434	718	232	315	602	392	483	411
d1, Uniform Delay [s]	41.51	22.14	18.13	46.65	35.94	20.50	43.49	37.55	24.65	38.94	37.09	29.06
k, delay calibration	0.15	0.50	0.50	0.11	0.50	0.37	0.11	0.11	0.25	0.25	0.36	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	35.88	1.28	0.24	3.98	32.48	2.61	26.73	1.09	1.95	30.55	41.30	0.25
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	1.03	0.51	0.08	0.45	1.03	0.59	1.00	0.47	0.57	0.99	1.02	0.21
d, Delay for Lane Group [s/veh]	77.39	23.42	18.37	50.63	68.42	23.11	70.22	38.64	26.60	69.49	78.39	29.31
Lane Group LOS	F	C	B	D	F	C	E	D	C	E	F	C
Critical Lane Group	Yes	No	No	No	Yes	No	Yes	No	No	No	Yes	No
50th-Percentile Queue Length [veh/ln]	9.88	5.96	0.69	0.89	14.93	7.00	7.07	3.16	6.13	12.11	16.34	1.52
50th-Percentile Queue Length [ft/ln]	247.08	148.91	17.17	22.29	373.18	174.93	176.72	78.97	153.31	302.74	408.40	37.89
95th-Percentile Queue Length [veh/ln]	15.26	9.96	1.24	1.60	21.68	11.34	11.43	5.69	10.19	17.82	23.30	2.73
95th-Percentile Queue Length [ft/ln]	381.41	248.98	30.90	40.11	541.96	283.38	285.73	142.15	254.83	445.41	582.53	68.20

Movement, Approach, & Intersection Results

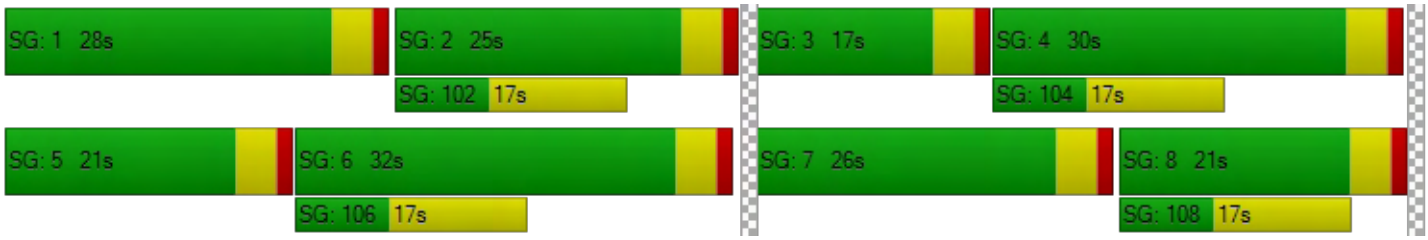
d_M, Delay for Movement [s/veh]	77.39	23.42	18.37	50.63	68.42	23.11	70.22	38.64	26.60	69.49	78.39	29.31
Movement LOS	F	C	B	D	F	C	E	D	C	E	F	C
d_A, Approach Delay [s/veh]	38.47			58.21			43.00			70.51		
Approach LOS	D			E			D			E		
d_I, Intersection Delay [s/veh]	53.81											
Intersection LOS	D											
Intersection V/C	1.024											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	39.61	39.61	39.61	39.61
l_p,int, Pedestrian LOS Score for Intersection	3.522	3.399	3.009	2.674
Crosswalk LOS	D	C	C	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	420	560	340	520
d_b, Bicycle Delay [s]	31.21	25.92	34.45	27.38
l_b,int, Bicycle LOS Score for Intersection	2.469	2.626	2.753	3.158
Bicycle LOS	B	B	C	C

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



DHS 109

Vistro File: G:\...\PM OY MIT.vistro

Scenario 2 Existing Plus Ambient (2021) Plus Cumulative Plus Project

Report File: G:\...\PM EACP MIT.pdf

5/16/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
2	Indian Canyon Dr (NS) at Pierson Blvd (EW)	Signalized	HCM 6th Edition	EB Left	0.586	13.4	B
3	Indian Canyon Dr (NS) at Dillon Rd (EW)	Signalized	HCM 6th Edition	EB Left	0.844	24.3	C
7	Little Morongo Rd (NS) at Pierson Blvd (EW)	Signalized	HCM 6th Edition	WB Left	0.472	13.6	B
8	Little Morongo Rd (NS) at 14th Ave/2 Bunch Palms (EW)	Signalized	HCM 6th Edition	SB Left	0.686	18.1	B
9	Little Morongo Rd (NS) at 15th Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.654	12.7	B
10	Little Morongo Rd (NS) at Dillon Rd (EW)	Signalized	HCM 6th Edition	NB Left	0.903	48.7	D
11	Atlantic Ave (NS) at Dillon Rd (EW)	Two-way stop	HCM 6th Edition	SB Right	0.010	12.5	B
14	Palm Dr (NS) at Two Bunch Palms Trail (EW)	Signalized	HCM 6th Edition	SB Left	1.028	41.5	D
16	Palm Dr (NS) at Camino Aventura (EW)	Signalized	HCM 6th Edition	SB Left	0.765	9.9	A
17	Palm Dr (NS) at Dillon Rd (EW)	Signalized	HCM 6th Edition	EB Left	0.997	51.3	D

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 2: Indian Canyon Dr (NS) at Pierson Blvd (EW)

Control Type:	Signalized	Delay (sec / veh):	13.4
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.586

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Pierson Blvd			Pierson Blvd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			55.00			50.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			No			No			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Pierson Blvd			Pierson Blvd		
Base Volume Input [veh/h]	37	292	108	33	146	15	21	99	14	81	76	60
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	44	97	67	24	36	0	0	29	14	29	73	63
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	82	401	179	58	188	16	22	132	29	113	152	125
Peak Hour Factor	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	21	105	47	15	49	4	6	34	8	29	40	33
Total Analysis Volume [veh/h]	86	418	187	60	196	17	23	138	30	118	158	130
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-
Minimum Green [s]	0	7	0	0	7	0	0	7	0	0	7	0
Maximum Green [s]	0	30	0	0	30	0	0	30	0	0	30	0
Amber [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	0	18	0	0	18	0	0	42	0	0	42	0
Vehicle Extension [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall		No			No			No			No	
Maximum Recall		No			No			No			No	
Pedestrian Recall		No			No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	L	C	L	C	L	C
C, Cycle Length [s]	60	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	0.00	2.00	0.00	2.00	0.00	2.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	37	37	37	37	15	15	15	15
g / C, Green / Cycle	0.61	0.61	0.61	0.61	0.26	0.26	0.26	0.26
(v / s)_i Volume / Saturation Flow Rate	0.07	0.34	0.07	0.12	0.02	0.09	0.10	0.17
s, saturation flow rate [veh/h]	1168	1773	815	1844	1091	1813	1217	1732
c, Capacity [veh/h]	739	1080	431	1123	197	467	295	446
d1, Uniform Delay [s]	7.15	6.95	12.37	5.18	26.48	18.23	24.37	19.84
k, delay calibration	0.50	0.50	0.50	0.50	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.32	2.10	0.67	0.37	0.26	0.47	0.88	1.57
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.12	0.56	0.14	0.19	0.12	0.36	0.40	0.65
d, Delay for Lane Group [s/veh]	7.47	9.05	13.04	5.55	26.74	18.70	25.25	21.42
Lane Group LOS	A	A	B	A	C	B	C	C
Critical Lane Group	No	Yes	No	No	No	No	No	Yes
50th-Percentile Queue Length [veh/ln]	0.42	2.90	0.49	0.71	0.28	1.61	1.44	3.17
50th-Percentile Queue Length [ft/ln]	10.45	72.60	12.16	17.83	7.11	40.27	36.10	79.15
95th-Percentile Queue Length [veh/ln]	0.75	5.23	0.88	1.28	0.51	2.90	2.60	5.70
95th-Percentile Queue Length [ft/ln]	18.81	130.67	21.88	32.09	12.79	72.49	64.98	142.46

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	7.47	9.05	9.05	13.04	5.55	5.55	26.74	18.70	18.70	25.25	21.42	21.42
Movement LOS	A	A	A	B	A	A	C	B	B	C	C	C
d_A, Approach Delay [s/veh]	8.86			7.20			19.67			22.53		
Approach LOS	A			A			B			C		
d_I, Intersection Delay [s/veh]	13.45											
Intersection LOS	B											
Intersection V/C	0.586											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000	0.000
Crosswalk LOS	F	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	467	467	1267	1267
d_b, Bicycle Delay [s]	17.63	17.63	4.03	4.03
l_b,int, Bicycle LOS Score for Intersection	2.700	2.010	1.875	2.230
Bicycle LOS	B	B	A	B

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 3: Indian Canyon Dr (NS) at Dillon Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	24.3
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.844

Intersection Setup

Name	Indian Canyon Dr			Indian Canyon Dr			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			No			No			No		

Volumes

Name	Indian Canyon Dr			Indian Canyon Dr			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	12	400	305	27	212	0	5	82	14	178	89	33
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	37	178	420	8	71	0	0	40	14	591	80	30
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	49	594	737	36	291	0	5	125	29	776	173	64
Peak Hour Factor	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	13	153	190	9	75	0	1	32	7	200	44	16
Total Analysis Volume [veh/h]	50	611	758	37	299	0	5	129	30	798	178	66
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	75
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	2	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups			2,7									
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	7	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	30	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	3.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	11	30	30	11	30	0	20	11	0	23	14	0
Vehicle Extension [s]	3.0	3.0	3.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	7	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	10	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No	No	No	No		No	No		No	No	
Maximum Recall	No	No	No	No	No		No	No		No	No	
Pedestrian Recall	No	No	No	No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C
C, Cycle Length [s]	75	75	75	75	75	75	75	75	75	75	75
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	0.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	5	29	53	4	29	29	1	7	7	19	25
g / C, Green / Cycle	0.06	0.39	0.70	0.05	0.38	0.38	0.01	0.09	0.09	0.25	0.33
(v / s)_i Volume / Saturation Flow Rate	0.03	0.33	0.48	0.02	0.16	0.00	0.00	0.07	0.02	0.23	0.14
s, saturation flow rate [veh/h]	1781	1870	1589	1781	1870	1589	1781	1870	1589	3459	1785
c, Capacity [veh/h]	111	734	1111	93	715	608	19	167	142	875	592
d1, Uniform Delay [s]	34.04	20.61	6.52	34.52	17.07	0.00	36.91	33.50	31.79	27.28	19.47
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.85	10.64	3.40	2.76	1.79	0.00	6.79	7.32	0.73	4.15	0.46
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.45	0.83	0.68	0.40	0.42	0.00	0.26	0.77	0.21	0.91	0.41
d, Delay for Lane Group [s/veh]	36.89	31.24	9.91	37.28	18.87	0.00	43.69	40.82	32.52	31.43	19.93
Lane Group LOS	D	C	A	D	B	A	D	D	C	C	B
Critical Lane Group	No	No	Yes	Yes	No	No	No	Yes	No	Yes	No
50th-Percentile Queue Length [veh/ln]	0.89	10.03	4.33	0.67	3.51	0.00	0.12	2.41	0.49	6.50	2.87
50th-Percentile Queue Length [ft/ln]	22.21	250.67	108.16	16.68	87.84	0.00	3.00	60.34	12.16	162.53	71.78
95th-Percentile Queue Length [veh/ln]	1.60	15.22	7.74	1.20	6.32	0.00	0.22	4.34	0.88	10.68	5.17
95th-Percentile Queue Length [ft/ln]	39.98	380.50	193.45	30.02	158.11	0.00	5.40	108.61	21.89	267.07	129.20

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	36.89	31.24	9.91	37.28	18.87	0.00	43.69	40.82	32.52	31.43	19.93	19.93
Movement LOS	D	C	A	D	B	A	D	D	C	C	B	B
d_A, Approach Delay [s/veh]	20.05			20.89			39.39			28.74		
Approach LOS	C			C			D			C		
d_I, Intersection Delay [s/veh]	24.27											
Intersection LOS	C											
Intersection V/C	0.844											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000	0.000
Crosswalk LOS	F	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	693	693	187	267
d_b, Bicycle Delay [s]	16.01	16.01	30.83	28.17
l_b,int, Bicycle LOS Score for Intersection	3.901	2.114	1.830	3.279
Bicycle LOS	D	B	A	C

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 7: Little Morongo Rd (NS) at Pierson Blvd (EW)

Control Type:	Signalized	Delay (sec / veh):	13.6
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.472

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			Pierson Blvd			Pierson Blvd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			45.00			50.00			50.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			Pierson Blvd			Pierson Blvd		
Base Volume Input [veh/h]	28	88	39	49	53	5	12	185	22	10	148	61
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	134	170	85	1	71	12	31	38	51	29	19	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	164	266	128	54	128	17	43	238	75	39	179	66
Peak Hour Factor	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	42	68	33	14	33	4	11	61	19	10	46	17
Total Analysis Volume [veh/h]	169	274	132	56	132	17	44	245	77	40	184	68
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-
Minimum Green [s]	0	7	0	0	7	0	0	7	0	0	7	0
Maximum Green [s]	0	30	0	0	30	0	0	30	0	0	30	0
Amber [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	0	11	0	0	11	0	0	49	0	0	49	0
Vehicle Extension [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall		No			No			No			No	
Maximum Recall		No			No			No			No	
Pedestrian Recall		No			No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	L	C	L	C	L	C
C, Cycle Length [s]	60	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	0.00	2.00	0.00	2.00	0.00	2.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	35	35	35	35	17	17	17	17
g / C, Green / Cycle	0.59	0.59	0.59	0.59	0.28	0.28	0.28	0.28
(v / s)_i Volume / Saturation Flow Rate	0.14	0.23	0.06	0.08	0.04	0.18	0.04	0.14
s, saturation flow rate [veh/h]	1238	1769	979	1833	1127	1794	1058	1785
c, Capacity [veh/h]	770	1037	553	1074	254	503	203	501
d1, Uniform Delay [s]	7.83	6.67	9.90	5.59	24.24	18.93	26.46	18.09
k, delay calibration	0.50	0.50	0.50	0.50	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.66	1.11	0.37	0.27	0.32	1.36	0.47	0.78
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.22	0.39	0.10	0.14	0.17	0.64	0.20	0.50
d, Delay for Lane Group [s/veh]	8.49	7.78	10.27	5.86	24.56	20.29	26.92	18.87
Lane Group LOS	A	A	B	A	C	C	C	B
Critical Lane Group	No	Yes	No	No	No	Yes	No	No
50th-Percentile Queue Length [veh/ln]	0.90	1.84	0.40	0.62	0.52	3.41	0.51	2.52
50th-Percentile Queue Length [ft/ln]	22.55	45.93	9.92	15.53	13.04	85.20	12.67	62.88
95th-Percentile Queue Length [veh/ln]	1.62	3.31	0.71	1.12	0.94	6.13	0.91	4.53
95th-Percentile Queue Length [ft/ln]	40.58	82.67	17.86	27.95	23.47	153.36	22.81	113.18

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	8.49	7.78	7.78	10.27	5.86	5.86	24.56	20.29	20.29	26.92	18.87	18.87
Movement LOS	A	A	A	B	A	A	C	C	C	C	B	B
d_A, Approach Delay [s/veh]	7.99			7.07			20.80			19.97		
Approach LOS	A			A			C			B		
d_I, Intersection Delay [s/veh]	13.55											
Intersection LOS	B											
Intersection V/C	0.472											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000	0.000
Crosswalk LOS	F	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	233	233	1500	1500
d_b, Bicycle Delay [s]	23.41	23.41	1.88	1.88
l_b,int, Bicycle LOS Score for Intersection	2.508	1.898	2.164	2.041
Bicycle LOS	B	A	B	B

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report

Intersection 8: Little Morongo Rd (NS) at 14th Ave/2 Bunch Palms (EW)

Control Type:	Signalized	Delay (sec / veh):	18.1
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.686

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			14th Ave			Two Bunch Palms Trail		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	55.00			55.00			30.00			45.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			14th Ave			Two Bunch Palms Trail		
Base Volume Input [veh/h]	14	167	203	45	108	3	0	11	4	114	9	69
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	330	271	92	189	0	0	0	0	103	0	64
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	15	507	486	140	303	3	0	11	4	224	9	137
Peak Hour Factor	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430	0.9430
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	4	134	129	37	80	1	0	3	1	59	2	36
Total Analysis Volume [veh/h]	16	538	515	148	321	3	0	12	4	238	10	145
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	11	22	0	16	27	0	11	11	0	11	11	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	L	C	L	C
C, Cycle Length [s]	60	60	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	2	29	29	7	34	0	2	7	9
g / C, Green / Cycle	0.03	0.48	0.48	0.11	0.56	0.00	0.03	0.12	0.14
(v / s)_i Volume / Saturation Flow Rate	0.01	0.29	0.32	0.08	0.17	0.00	0.01	0.07	0.10
s, saturation flow rate [veh/h]	1781	1870	1589	1781	1867	1781	1791	3459	1605
c, Capacity [veh/h]	53	898	763	195	1046	3	52	400	229
d1, Uniform Delay [s]	28.63	11.44	12.05	26.07	7.06	0.00	28.67	25.32	24.52
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	3.13	2.95	4.74	5.92	0.77	0.00	3.25	1.42	3.46
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.30	0.60	0.67	0.76	0.31	0.00	0.31	0.60	0.68
d, Delay for Lane Group [s/veh]	31.76	14.38	16.79	31.99	7.83	0.00	31.92	26.74	27.97
Lane Group LOS	C	B	B	C	A	A	C	C	C
Critical Lane Group	No	No	Yes	Yes	No	No	No	No	Yes
50th-Percentile Queue Length [veh/ln]	0.24	4.23	4.53	2.08	1.52	0.00	0.26	1.51	2.07
50th-Percentile Queue Length [ft/ln]	6.08	105.76	113.25	51.93	37.92	0.00	6.57	37.82	51.67
95th-Percentile Queue Length [veh/ln]	0.44	7.60	8.02	3.74	2.73	0.00	0.47	2.72	3.72
95th-Percentile Queue Length [ft/ln]	10.95	190.09	200.52	93.47	68.25	0.00	11.82	68.07	93.01

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	31.76	14.38	16.79	31.99	7.83	7.83	0.00	31.92	31.92	26.74	27.97	27.97
Movement LOS	C	B	B	C	A	A	A	C	C	C	C	C
d_A, Approach Delay [s/veh]	15.80			15.41			31.92			27.23		
Approach LOS	B			B			C			C		
d_I, Intersection Delay [s/veh]	18.14											
Intersection LOS	B											
Intersection V/C	0.686											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000	0.000
Crosswalk LOS	F	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	600	767	233	233
d_b, Bicycle Delay [s]	14.70	11.41	23.41	23.41
l_b,int, Bicycle LOS Score for Intersection	3.323	2.338	1.586	2.208
Bicycle LOS	C	B	A	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 9: Little Morongo Rd (NS) at 15th Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	12.7
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.654

Intersection Setup

Name	Little Morongo Rd		Little Morongo Rd		15th Ave	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	No		No		No	

Volumes

Name	Little Morongo Rd		Little Morongo Rd		15th Ave	
Base Volume Input [veh/h]	384	0	0	226	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	209	52	25	322	285	128
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	608	52	25	557	285	128
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	160	14	7	147	75	34
Total Analysis Volume [veh/h]	640	55	26	586	300	135
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	2	0	0	6	7	0
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-
Minimum Green [s]	7	0	0	7	7	0
Maximum Green [s]	30	0	0	30	30	0
Amber [s]	3.0	0.0	0.0	3.0	3.0	0.0
All red [s]	1.0	0.0	0.0	1.0	1.0	0.0
Split [s]	11	0	0	11	49	0
Vehicle Extension [s]	3.0	0.0	0.0	3.0	3.0	0.0
Walk [s]	7	0	0	7	7	0
Pedestrian Clearance [s]	10	0	0	10	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
Minimum Recall	No			No	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	C	L	C	C
C, Cycle Length [s]	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	2.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	34	34	34	34	18
g / C, Green / Cycle	0.57	0.57	0.57	0.57	0.29
(v / s)_i Volume / Saturation Flow Rate	0.19	0.19	0.03	0.31	0.25
s, saturation flow rate [veh/h]	1870	1819	749	1870	1717
c, Capacity [veh/h]	1072	1043	444	1072	504
d1, Uniform Delay [s]	6.73	6.77	10.04	7.98	20.08
k, delay calibration	0.50	0.50	0.50	0.50	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.80	0.86	0.25	2.01	4.51
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.32	0.33	0.06	0.55	0.86
d, Delay for Lane Group [s/veh]	7.53	7.63	10.29	9.98	24.60
Lane Group LOS	A	A	B	A	C
Critical Lane Group	No	No	No	Yes	Yes
50th-Percentile Queue Length [veh/ln]	2.04	2.07	0.21	4.21	5.82
50th-Percentile Queue Length [ft/ln]	51.10	51.64	5.21	105.14	145.58
95th-Percentile Queue Length [veh/ln]	3.68	3.72	0.38	7.57	9.78
95th-Percentile Queue Length [ft/ln]	91.97	92.94	9.38	189.22	244.52

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	7.57	7.63	10.29	9.98	24.60	24.60
Movement LOS	A	A	B	A	C	C
d_A, Approach Delay [s/veh]	7.58		9.99		24.60	
Approach LOS	A		A		C	
d_I, Intersection Delay [s/veh]	12.68					
Intersection LOS	B					
Intersection V/C	0.654					

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00
I_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000
Crosswalk LOS	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	30.00	30.00	30.00
I_b,int, Bicycle LOS Score for Intersection	4.706	5.142	4.850
Bicycle LOS	E	F	E

Sequence

Ring 1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 10: Little Morongo Rd (NS) at Dillon Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	48.7
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.903

Intersection Setup

Name	Little Morongo Rd			Little Morongo Rd			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	1	0	0	1	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	205.00	100.00	100.00	146.00	100.00	100.00
Speed [mph]	30.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			No			No			No		

Volumes

Name	Little Morongo Rd			Little Morongo Rd			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	0	1	2	71	1	84	199	183	0	0	132	102
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	72	62	59	236	22	411	127	313	28	22	218	67
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	72	63	61	313	23	501	342	511	28	22	360	177
Peak Hour Factor	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770	0.8770
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	21	18	17	89	7	143	97	146	8	6	103	50
Total Analysis Volume [veh/h]	82	72	70	357	26	571	390	583	32	25	410	202
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	105
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	0	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	0	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
Split [s]	11	12	0	36	37	0	23	40	0	17	34	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No		No	No	
Maximum Recall	No	No		No	No		No	No		No	No	
Pedestrian Recall	No	No		No	No		No	No		No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	L	C	L	C	L	C	R
C, Cycle Length [s]	105	105	105	105	105	105	105	105	105
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	6	25	23	42	14	37	4	27	27
g / C, Green / Cycle	0.06	0.24	0.22	0.40	0.13	0.35	0.04	0.25	0.25
(v / s)_i Volume / Saturation Flow Rate	0.05	0.08	0.20	0.37	0.11	0.33	0.01	0.22	0.13
s, saturation flow rate [veh/h]	1781	1720	1781	1600	3459	1853	1781	1870	1589
c, Capacity [veh/h]	110	410	394	637	468	654	63	473	402
d1, Uniform Delay [s]	48.53	33.23	39.89	30.39	44.30	32.96	49.58	37.56	33.59
k, delay calibration	0.11	0.50	0.20	0.50	0.11	0.30	0.11	0.21	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	9.75	2.31	13.57	23.24	3.96	16.19	3.93	8.95	0.97
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.75	0.35	0.91	0.94	0.83	0.94	0.39	0.87	0.50
d, Delay for Lane Group [s/veh]	58.28	35.54	53.46	53.63	48.26	49.15	53.50	46.51	34.56
Lane Group LOS	E	D	D	D	D	D	D	D	C
Critical Lane Group	Yes	No	No	Yes	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	2.40	3.25	9.84	16.98	4.92	16.63	0.68	10.52	4.23
50th-Percentile Queue Length [ft/ln]	60.10	81.29	246.09	424.51	123.06	415.84	17.03	262.98	105.63
95th-Percentile Queue Length [veh/ln]	4.33	5.85	14.99	23.74	8.56	23.32	1.23	15.84	7.60
95th-Percentile Queue Length [ft/ln]	108.18	146.32	374.72	593.46	214.02	583.05	30.66	395.95	189.91

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	58.28	35.54	35.54	53.46	53.63	53.63	48.26	49.15	49.15	53.50	46.51	34.56
Movement LOS	E	D	D	D	D	D	D	D	D	D	D	C
d_A, Approach Delay [s/veh]	43.86			53.56			48.80			43.00		
Approach LOS	D			D			D			D		
d_I, Intersection Delay [s/veh]	48.71											
Intersection LOS	D											
Intersection V/C	0.903											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	0.00	0.00
l_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	0.000	0.000
Crosswalk LOS	F	F	F	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	152	629	686	571
d_b, Bicycle Delay [s]	44.80	24.69	22.67	26.79
l_b,int, Bicycle LOS Score for Intersection	1.929	3.134	3.218	2.611
Bicycle LOS	A	C	C	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 11: Atlantic Ave (NS) at Dillon Rd (EW)

Control Type:	Two-way stop	Delay (sec / veh):	12.5
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.010

Intersection Setup

Name	Atlantic Ave		Dillon Rd		Dillon Rd	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		55.00		55.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		No	

Volumes

Name	Atlantic Ave		Dillon Rd		Dillon Rd	
Base Volume Input [veh/h]	0	5	3	276	250	1
Base Volume Adjustment Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	608	307	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	5	3	906	577	1
Peak Hour Factor	0.9290	0.9290	0.9290	0.9290	0.9290	0.9290
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	1	1	244	155	0
Total Analysis Volume [veh/h]	0	5	3	975	621	1
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.01	0.00	0.01	0.01	0.00
d_M, Delay for Movement [s/veh]	0.00	12.47	8.77	0.00	0.00	0.00
Movement LOS		B	A	A	A	A
95th-Percentile Queue Length [veh/ln]	0.00	0.03	0.01	0.01	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.78	0.24	0.24	0.00	0.00
d_A, Approach Delay [s/veh]	12.47		0.03		0.00	
Approach LOS	B		A		A	
d_I, Intersection Delay [s/veh]	0.06					
Intersection LOS	B					

Intersection Level Of Service Report

Intersection 14: Palm Dr (NS) at Two Bunch Palms Trail (EW)

Control Type:	Signalized	Delay (sec / veh):	41.5
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.028

Intersection Setup

Name	Palm Dr			Palm Dr			Two Bunch Palms Trail			Two Bunch Palms Trail		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	0	1	0	1
Pocket Length [ft]	96.00	100.00	100.00	101.00	100.00	100.00	95.00	100.00	100.00	70.00	100.00	130.00
Speed [mph]	40.00			35.00			40.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Two Bunch Palms Trail			Two Bunch Palms Trail		
Base Volume Input [veh/h]	180	1009	150	103	656	21	98	161	228	248	129	93
Base Volume Adjustment Factor	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200	1.0200
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	68	410	47	0	342	55	166	71	134	41	22	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	259	1480	206	109	1038	77	270	242	376	304	159	99
Peak Hour Factor	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670	0.9670
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	67	383	53	28	268	20	70	63	97	79	41	26
Total Analysis Volume [veh/h]	268	1531	213	113	1073	80	279	250	389	314	164	102
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	100
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	8	7	4	0
Auxiliary Signal Groups									5,8			
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	0	7	7	7	7	7	0
Maximum Green [s]	30	30	0	30	30	0	30	30	30	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0
Split [s]	17	46	0	11	40	0	22	21	21	22	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	7	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	10	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No		No	No	No	No	No	
Maximum Recall	No	No		No	No		No	No	No	No	No	
Pedestrian Recall	No	No		No	No		No	No	No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	100	100	100	100	100	100	100	100	100	100	100	100
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	0.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	13	44	44	7	38	38	17	15	33	18	16	16
g / C, Green / Cycle	0.13	0.43	0.43	0.07	0.37	0.37	0.17	0.15	0.33	0.18	0.16	0.16
(v / s)_i Volume / Saturation Flow Rate	0.08	0.43	0.13	0.06	0.21	0.05	0.16	0.13	0.24	0.18	0.09	0.06
s, saturation flow rate [veh/h]	3459	3560	1589	1781	5094	1589	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	453	1546	690	128	1909	596	313	289	517	321	298	253
d1, Uniform Delay [s]	41.05	28.17	18.54	46.15	24.83	20.64	40.42	41.40	30.24	40.89	38.85	37.87
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.50	0.11	0.11	0.32	0.15	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	1.24	20.74	1.16	17.66	1.20	0.47	8.76	7.75	6.36	22.46	1.59	1.03
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.59	0.99	0.31	0.89	0.56	0.13	0.89	0.87	0.75	0.98	0.55	0.40
d, Delay for Lane Group [s/veh]	42.28	48.91	19.70	63.81	26.03	21.11	49.18	49.15	36.60	63.35	40.44	38.91
Lane Group LOS	D	D	B	E	C	C	D	D	D	E	D	D
Critical Lane Group	No	Yes	No	Yes	No	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	3.11	21.09	3.27	3.37	6.68	1.28	7.25	6.44	8.86	9.51	3.77	2.28
50th-Percentile Queue Length [ft/ln]	77.66	527.36	81.75	84.22	167.06	32.01	181.27	161.09	221.60	237.80	94.30	57.00
95th-Percentile Queue Length [veh/ln]	5.59	28.63	5.89	6.06	10.92	2.30	11.67	10.61	13.75	14.57	6.79	4.10
95th-Percentile Queue Length [ft/ln]	139.78	715.66	147.16	151.60	273.04	57.61	291.68	265.17	343.67	364.25	169.74	102.60

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	42.28	48.91	19.70	63.81	26.03	21.11	49.18	49.15	36.60	63.35	40.44	38.91
Movement LOS	D	D	B	E	C	C	D	D	D	E	D	D
d_A, Approach Delay [s/veh]	44.93			29.09			43.84			52.57		
Approach LOS	D			C			D			D		
d_I, Intersection Delay [s/veh]	41.45											
Intersection LOS	D											
Intersection V/C	1.028											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	39.61	39.61	39.61	39.61
l_p,int, Pedestrian LOS Score for Intersection	3.346	3.115	2.676	2.465
Crosswalk LOS	C	C	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	840	720	340	340
d_b, Bicycle Delay [s]	16.82	20.48	34.45	34.45
l_b,int, Bicycle LOS Score for Intersection	3.220	2.256	3.074	2.517
Bicycle LOS	C	B	C	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 16: Palm Dr (NS) at Camino Aventura (EW)

Control Type:	Signalized	Delay (sec / veh):	9.9
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.765

Intersection Setup

Name	Palm Dr		Palm Dr		Camino Aventura	
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	1	0	0	0
Pocket Length [ft]	100.00	100.00	200.00	100.00	100.00	100.00
Speed [mph]	45.00		45.00		40.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	No		No		Yes	

Volumes

Name	Palm Dr		Palm Dr		Camino Aventura	
Base Volume Input [veh/h]	1279	90	61	827	24	61
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	434	36	48	359	11	39
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1764	130	111	1219	36	102
Peak Hour Factor	0.9680	0.9680	0.9680	0.9680	0.9680	0.9680
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	456	34	29	315	9	26
Total Analysis Volume [veh/h]	1822	134	115	1259	37	105
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	75
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	12.00

Phasing & Timing

Control Type	Permissive	Permissive	Protected	Permissive	Split	Split
Signal group	2	0	1	6	7	0
Auxiliary Signal Groups						
Lead / Lag	-	-	Lead	-	Lead	-
Minimum Green [s]	7	0	7	7	7	0
Maximum Green [s]	30	0	30	30	30	0
Amber [s]	3.0	0.0	3.0	3.0	3.0	0.0
All red [s]	1.0	0.0	1.0	1.0	1.0	0.0
Split [s]	21	0	43	64	11	0
Vehicle Extension [s]	3.0	0.0	3.0	3.0	3.0	0.0
Walk [s]	7	0	0	7	7	0
Pedestrian Clearance [s]	10	0	0	10	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	0.0	2.0	2.0	2.0	0.0
Minimum Recall	No		No	No	No	
Maximum Recall	No		No	No	No	
Pedestrian Recall	No		No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	R	L	C	L	R
C, Cycle Length [s]	75	75	75	75	75	75
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	50	50	6	60	7	7
g / C, Green / Cycle	0.67	0.67	0.09	0.80	0.09	0.09
(v / s)_i Volume / Saturation Flow Rate	0.51	0.08	0.06	0.35	0.02	0.07
s, saturation flow rate [veh/h]	3560	1589	1781	3560	1781	1589
c, Capacity [veh/h]	2365	1056	153	2862	160	143
d1, Uniform Delay [s]	8.66	4.62	33.53	2.24	31.78	33.32
k, delay calibration	0.50	0.50	0.11	0.50	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.49	0.25	7.14	0.49	0.73	7.18
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.77	0.13	0.75	0.44	0.23	0.74
d, Delay for Lane Group [s/veh]	11.15	4.87	40.66	2.73	32.51	40.50
Lane Group LOS	B	A	D	A	C	D
Critical Lane Group	Yes	No	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	7.18	0.57	2.21	0.70	0.62	2.04
50th-Percentile Queue Length [ft/ln]	179.45	14.29	55.24	17.44	15.60	51.11
95th-Percentile Queue Length [veh/ln]	11.57	1.03	3.98	1.26	1.12	3.68
95th-Percentile Queue Length [ft/ln]	289.30	25.71	99.44	31.38	28.08	91.99

Movement, Approach, & Intersection Results

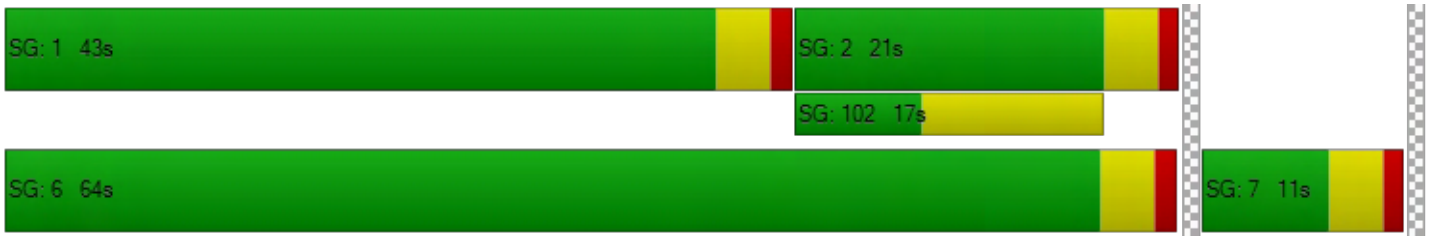
d_M, Delay for Movement [s/veh]	11.15	4.87	40.66	2.73	32.51	40.50
Movement LOS	B	A	D	A	C	D
d_A, Approach Delay [s/veh]	10.72		5.91		38.42	
Approach LOS	B		A		D	
d_I, Intersection Delay [s/veh]	9.95					
Intersection LOS	A					
Intersection V/C	0.765					

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	0.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	0.00	27.31
l_p,int, Pedestrian LOS Score for Intersection	0.000	0.000	2.100
Crosswalk LOS	F	F	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	37.50	37.50	37.50
l_b,int, Bicycle LOS Score for Intersection	5.746	5.266	4.132
Bicycle LOS	F	F	D

Sequence

Ring 1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 17: Palm Dr (NS) at Dillon Rd (EW)

Control Type:	Signalized	Delay (sec / veh):	51.3
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.997

Intersection Setup

Name	Palm Dr			Palm Dr			Dillon Rd			Dillon Rd		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	1	0	0	1	0	0	1	0	1	1	0	1
Pocket Length [ft]	150.00	100.00	100.00	150.00	100.00	100.00	155.00	100.00	155.00	140.00	100.00	140.00
Speed [mph]	60.00			55.00			55.00			55.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Palm Dr			Palm Dr			Dillon Rd			Dillon Rd		
Base Volume Input [veh/h]	180	1196	248	82	671	73	113	169	111	156	107	103
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Rate	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	37	87	3	31	117	222	351	148	109	1	48	32
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	224	1331	261	116	815	298	469	324	224	163	159	139
Peak Hour Factor	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350	0.9350
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	60	356	70	31	218	80	125	87	60	44	43	37
Total Analysis Volume [veh/h]	240	1424	279	124	872	319	502	347	240	174	170	149
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	105
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	16.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	6	3	8	8	7	4	0
Auxiliary Signal Groups						3,6			5,8			
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-
Minimum Green [s]	7	7	0	7	7	7	7	7	7	7	7	0
Maximum Green [s]	30	30	0	30	30	30	30	30	30	30	30	0
Amber [s]	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	0.0
All red [s]	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
Split [s]	21	39	0	12	30	30	33	21	21	33	21	0
Vehicle Extension [s]	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	0.0
Walk [s]	0	7	0	0	7	7	0	7	7	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	10	0	10	10	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0
Minimum Recall	No	No		No	No	No	No	No	No	No	No	
Maximum Recall	No	No		No	No	No	No	No	No	No	No	
Pedestrian Recall	No	No		No	No	No	No	No	No	No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	C	R	L	C	R	L	C	R	L	C	R
C, Cycle Length [s]	105	105	105	105	105	105	105	105	105	105	105	105
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	0.00	2.00	2.00	0.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	16	40	40	8	32	65	29	29	49	12	12	12
g / C, Green / Cycle	0.15	0.38	0.38	0.08	0.30	0.62	0.28	0.27	0.46	0.12	0.11	0.11
(v / s)_i Volume / Saturation Flow Rate	0.13	0.40	0.18	0.07	0.17	0.20	0.28	0.19	0.15	0.10	0.09	0.09
s, saturation flow rate [veh/h]	1781	3560	1589	1781	5094	1589	1781	1870	1589	1781	1870	1589
c, Capacity [veh/h]	274	1349	602	138	1541	979	491	510	739	211	216	184
d1, Uniform Delay [s]	43.52	32.68	24.61	48.12	30.88	9.70	38.12	34.16	17.74	45.33	45.26	45.40
k, delay calibration	0.11	0.50	0.50	0.11	0.50	0.23	0.44	0.15	0.11	0.11	0.11	0.11
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	8.59	40.52	2.55	17.68	1.51	0.41	44.09	2.20	0.25	7.91	6.19	8.23
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.87	1.06	0.46	0.90	0.57	0.33	1.02	0.68	0.32	0.83	0.79	0.81
d, Delay for Lane Group [s/veh]	52.11	73.20	27.17	65.80	32.39	10.11	82.21	36.35	17.99	53.23	51.46	53.64
Lane Group LOS	D	F	C	E	C	B	F	D	B	D	D	D
Critical Lane Group	No	Yes	No	Yes	No	No	Yes	No	No	No	No	Yes
50th-Percentile Queue Length [veh/ln]	6.33	22.65	5.12	3.74	5.94	2.97	17.62	7.64	3.33	4.66	4.45	4.01
50th-Percentile Queue Length [ft/ln]	158.33	566.20	127.89	93.40	148.45	74.15	440.39	191.01	83.36	116.40	111.32	100.21
95th-Percentile Queue Length [veh/ln]	10.46	31.62	8.83	6.72	9.93	5.34	24.84	12.17	6.00	8.19	7.91	7.21
95th-Percentile Queue Length [ft/ln]	261.52	790.42	220.63	168.11	248.36	133.47	621.09	304.34	150.04	204.87	197.84	180.37

Movement, Approach, & Intersection Results

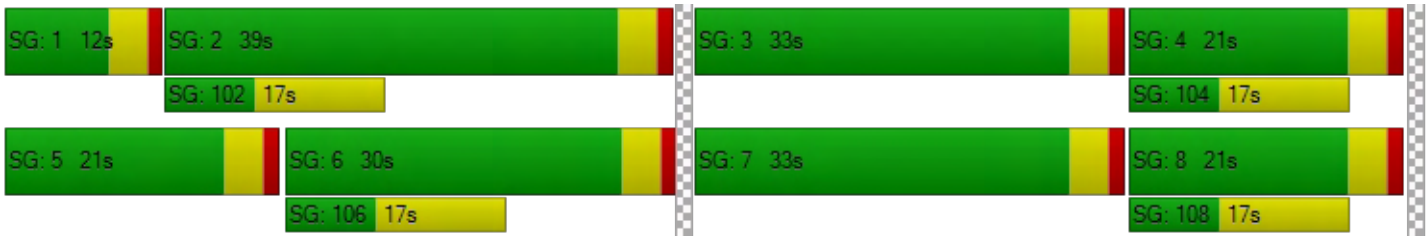
d_M, Delay for Movement [s/veh]	52.11	73.20	27.17	65.80	32.39	10.11	82.21	36.35	17.99	53.23	51.46	53.64
Movement LOS	D	F	C	E	C	B	F	D	B	D	D	D
d_A, Approach Delay [s/veh]	63.99			30.14			53.44			52.74		
Approach LOS	E			C			D			D		
d_I, Intersection Delay [s/veh]	51.27											
Intersection LOS	D											
Intersection V/C	0.997											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	42.08	42.08	42.08	42.08
l_p,int, Pedestrian LOS Score for Intersection	3.501	3.490	2.951	2.694
Crosswalk LOS	D	C	C	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	667	495	324	324
d_b, Bicycle Delay [s]	23.33	29.72	36.88	36.88
l_b,int, Bicycle LOS Score for Intersection	3.163	2.283	3.356	2.373
Bicycle LOS	C	B	C	B

Sequence

Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



APPENDIX E

TRAFFIC SIGNAL WARRANT ANALYSIS

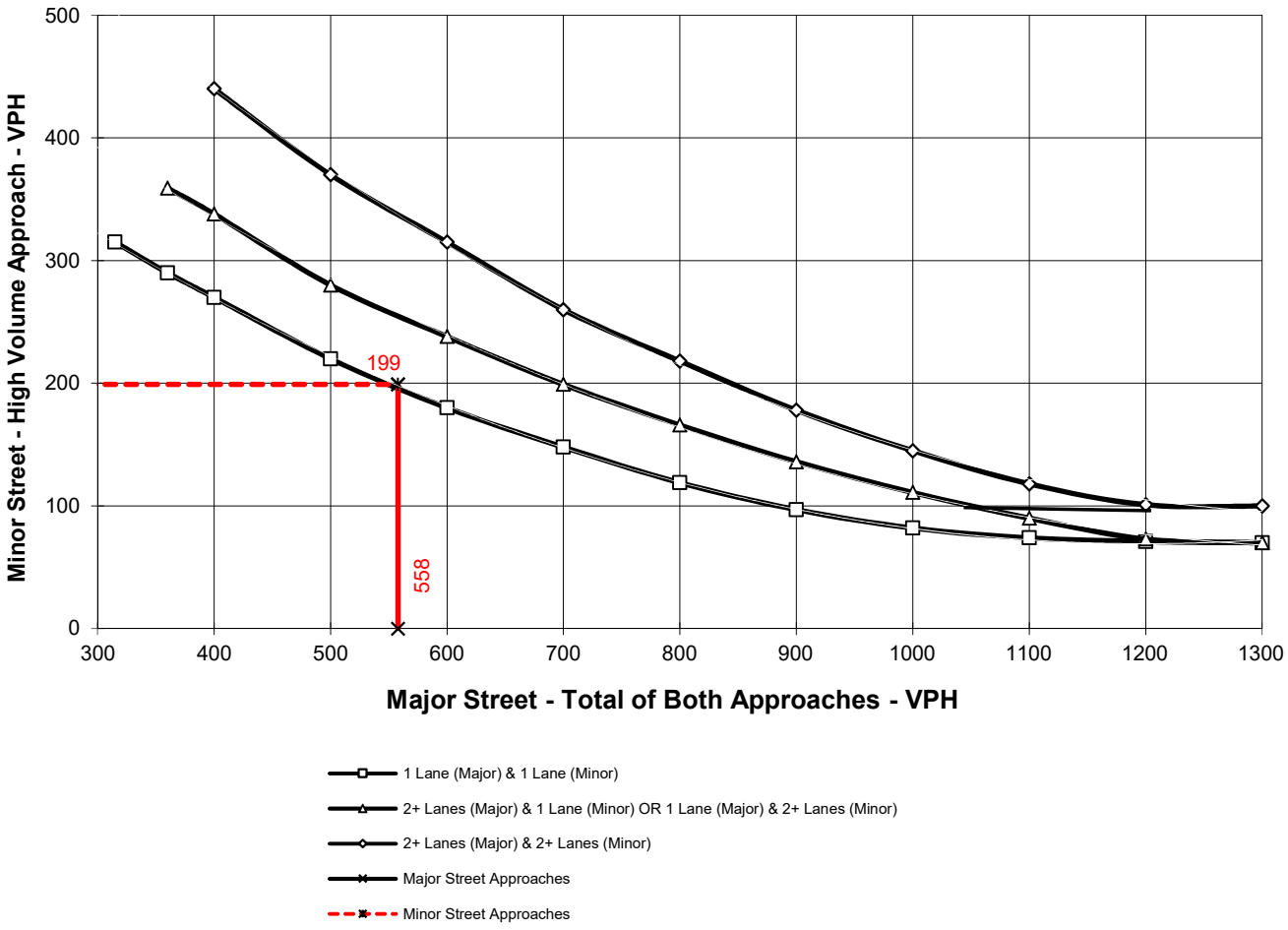
PEAK HOUR VOLUME WARRANT
(Rural Areas)

Existing AM

Major Street Name = **Indian Canyon Dr**
Total of Both Approaches (VPH) = **558**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Pierson Blvd**
High Volume Approach (VPH) = **199**
Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



** NOTE:
100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

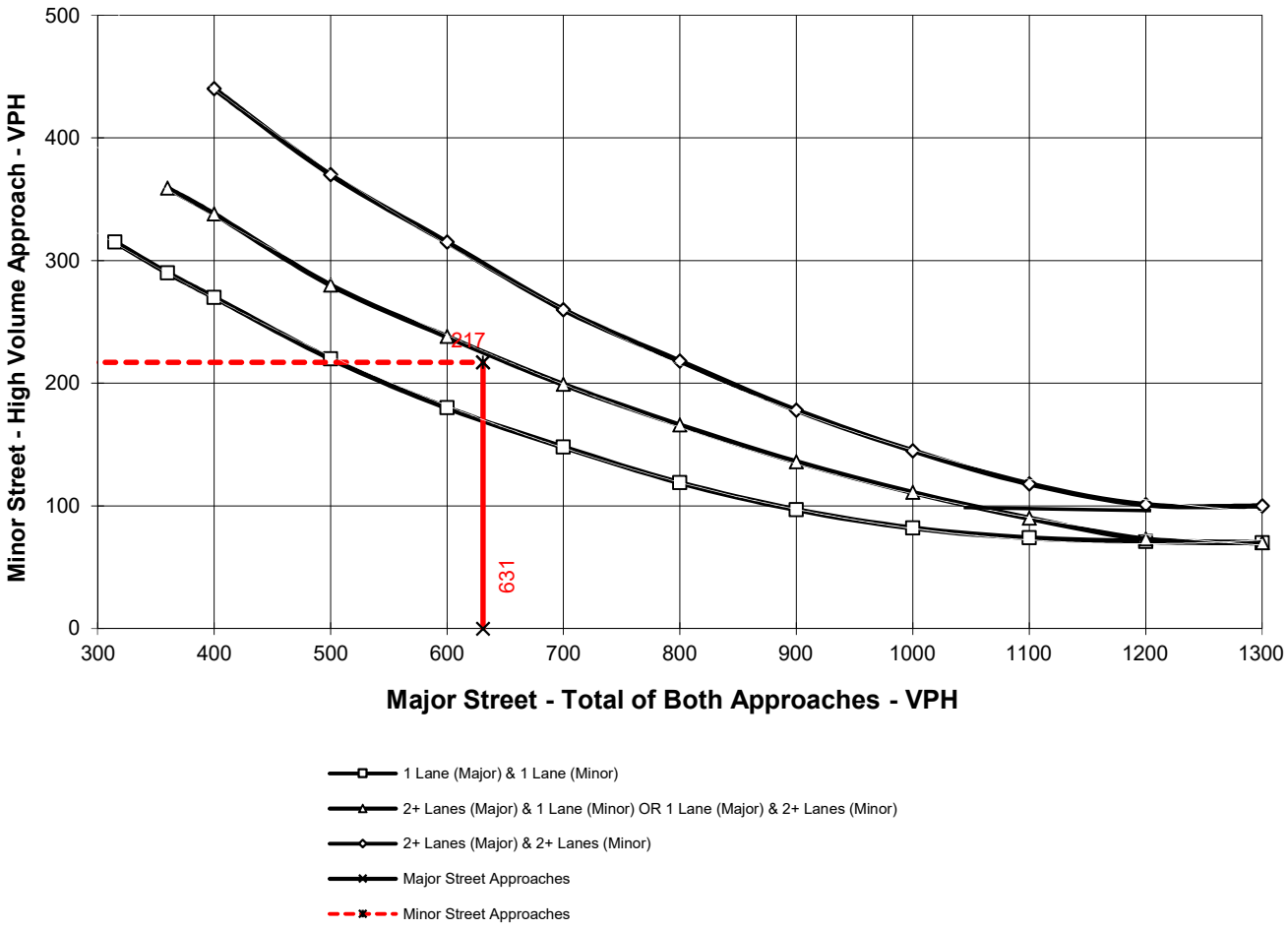
PEAK HOUR VOLUME WARRANT
(Rural Areas)

Existing PM

Major Street Name = **Indian Canyon Dr**
Total of Both Approaches (VPH) = **631**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Pierson Blvd**
High Volume Approach (VPH) = **217**
Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



** NOTE:
100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

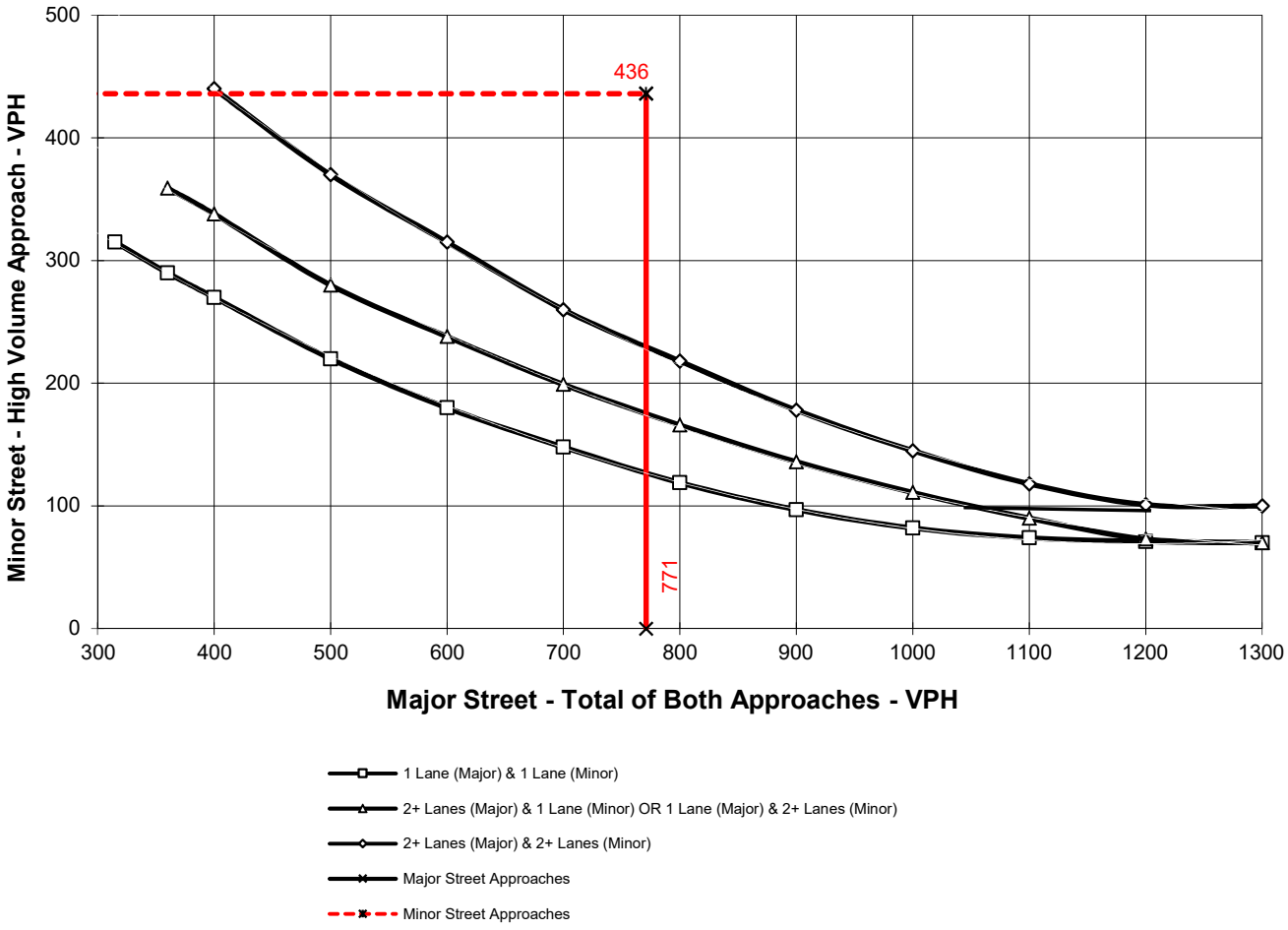
PEAK HOUR VOLUME WARRANT
(Rural Areas)

Existing AM

Major Street Name = **Indian Canyon Dr** Total of Both Approaches (VPH) = **771**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Dillon Rd** High Volume Approach (VPH) = **436**
Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



** NOTE:
100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

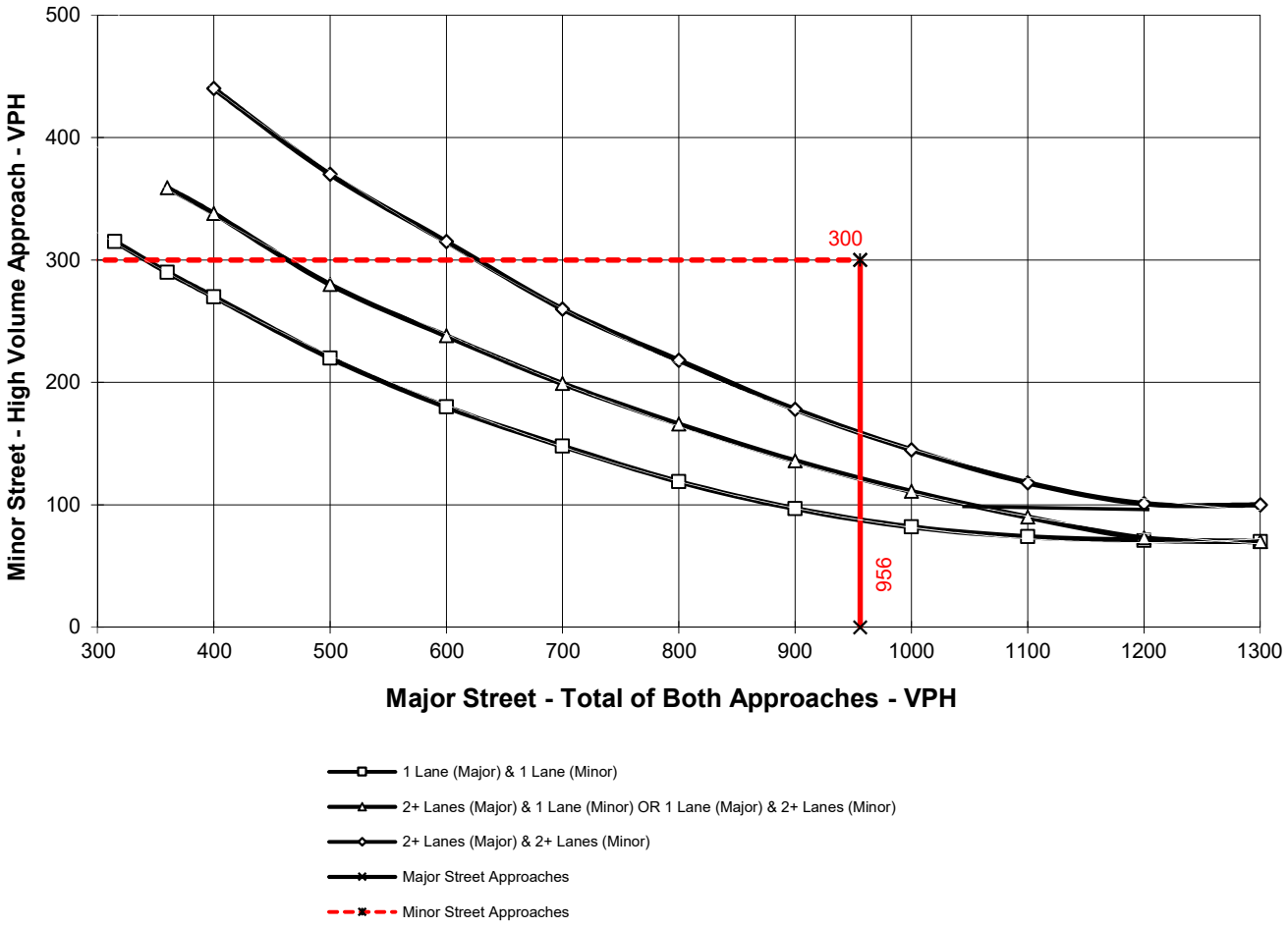
PEAK HOUR VOLUME WARRANT
(Rural Areas)

Existing PM

Major Street Name = **Indian Canyon Dr**
Total of Both Approaches (VPH) = **956**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Dillon Rd**
High Volume Approach (VPH) = **300**
Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



** NOTE:
100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

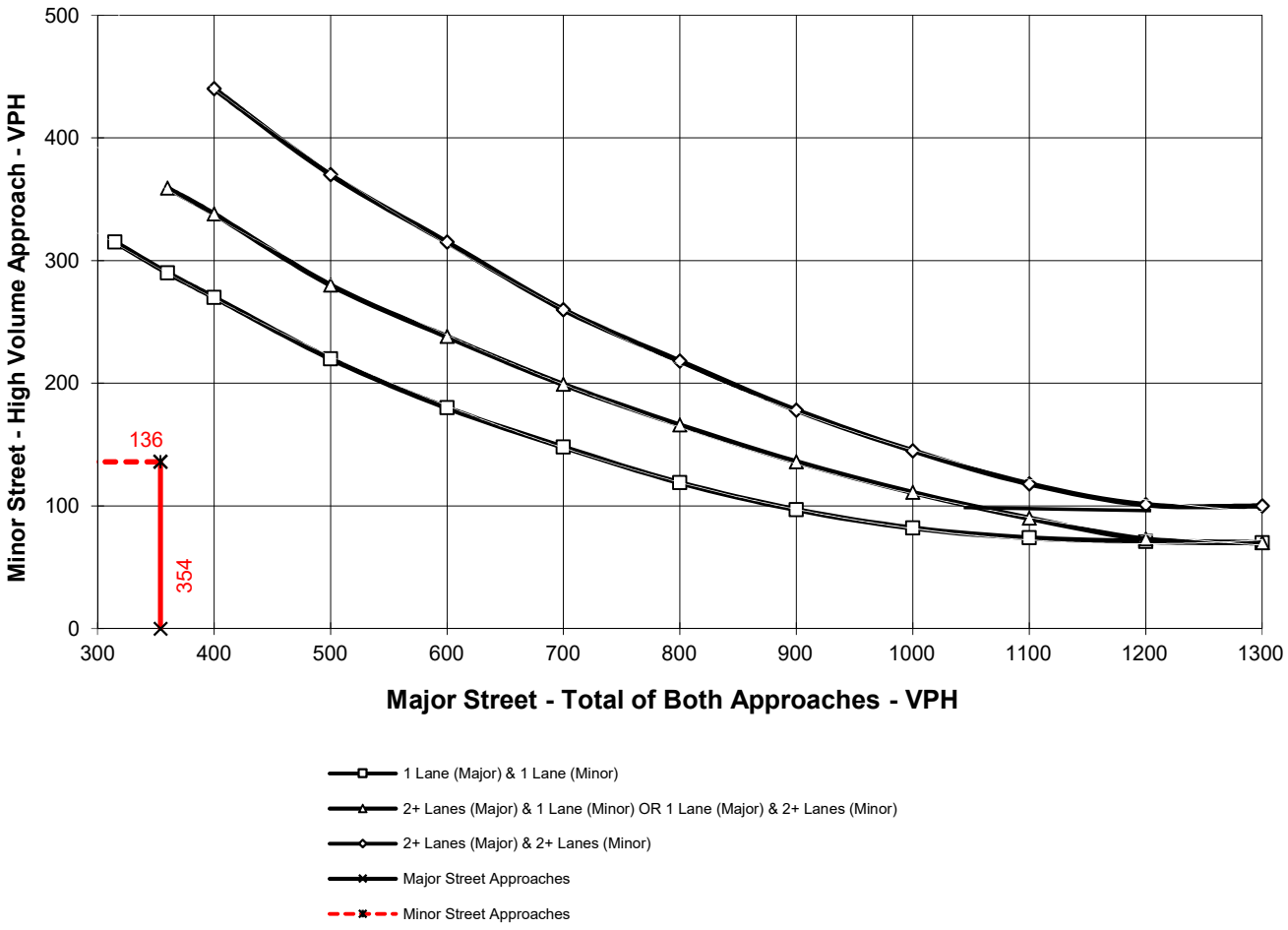
PEAK HOUR VOLUME WARRANT
(Rural Areas)

Existing AM

Major Street Name = **Pierson Blvd**
Total of Both Approaches (VPH) = **354**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Little Monrongo Rd**
High Volume Approach (VPH) = **136**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



** NOTE:
100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

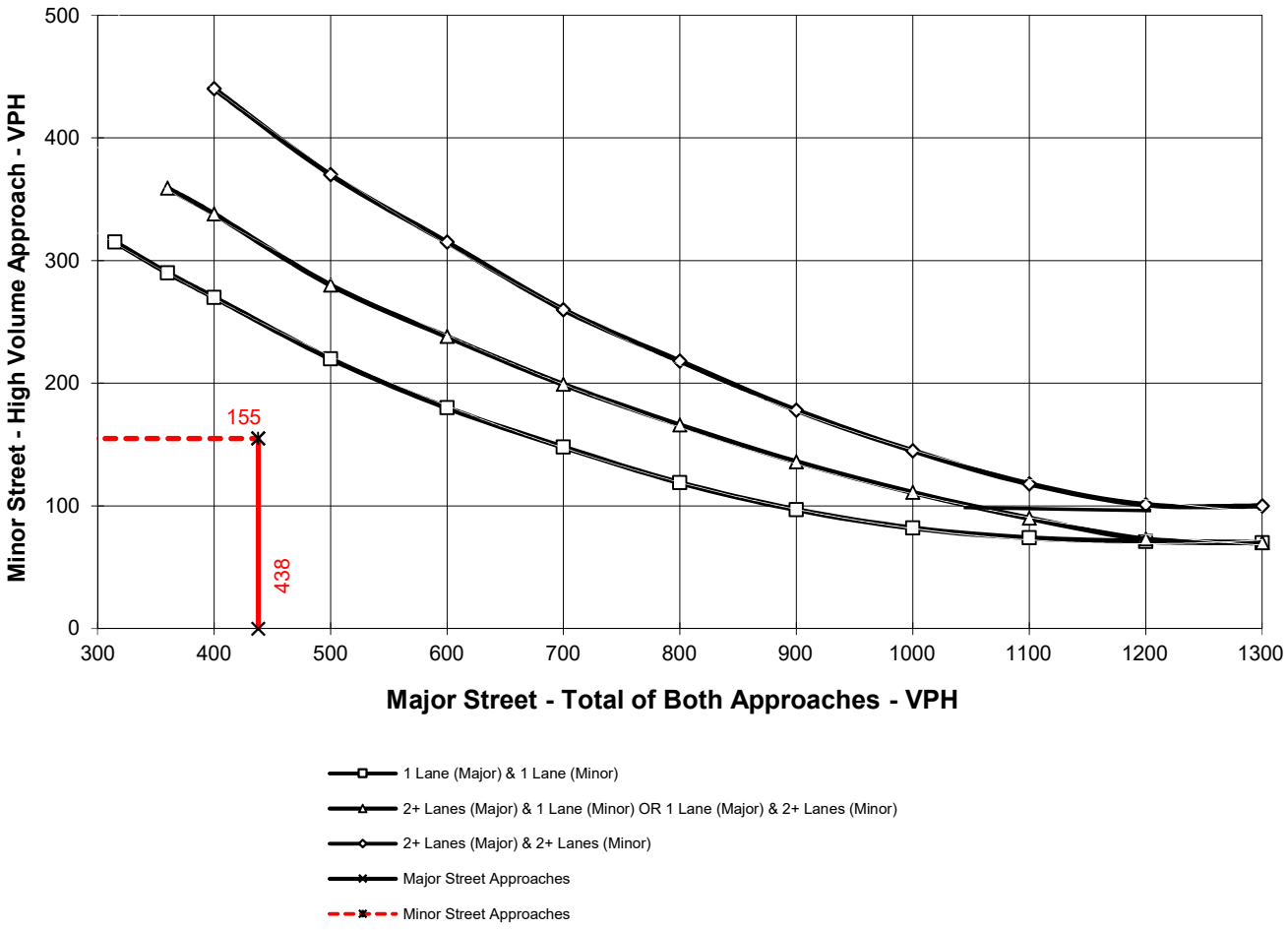
PEAK HOUR VOLUME WARRANT
(Rural Areas)

Existing PM

Major Street Name = **Pierson Blvd**
Total of Both Approaches (VPH) = **438**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Little Monrongo Rd**
High Volume Approach (VPH) = **155**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



** NOTE:
100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

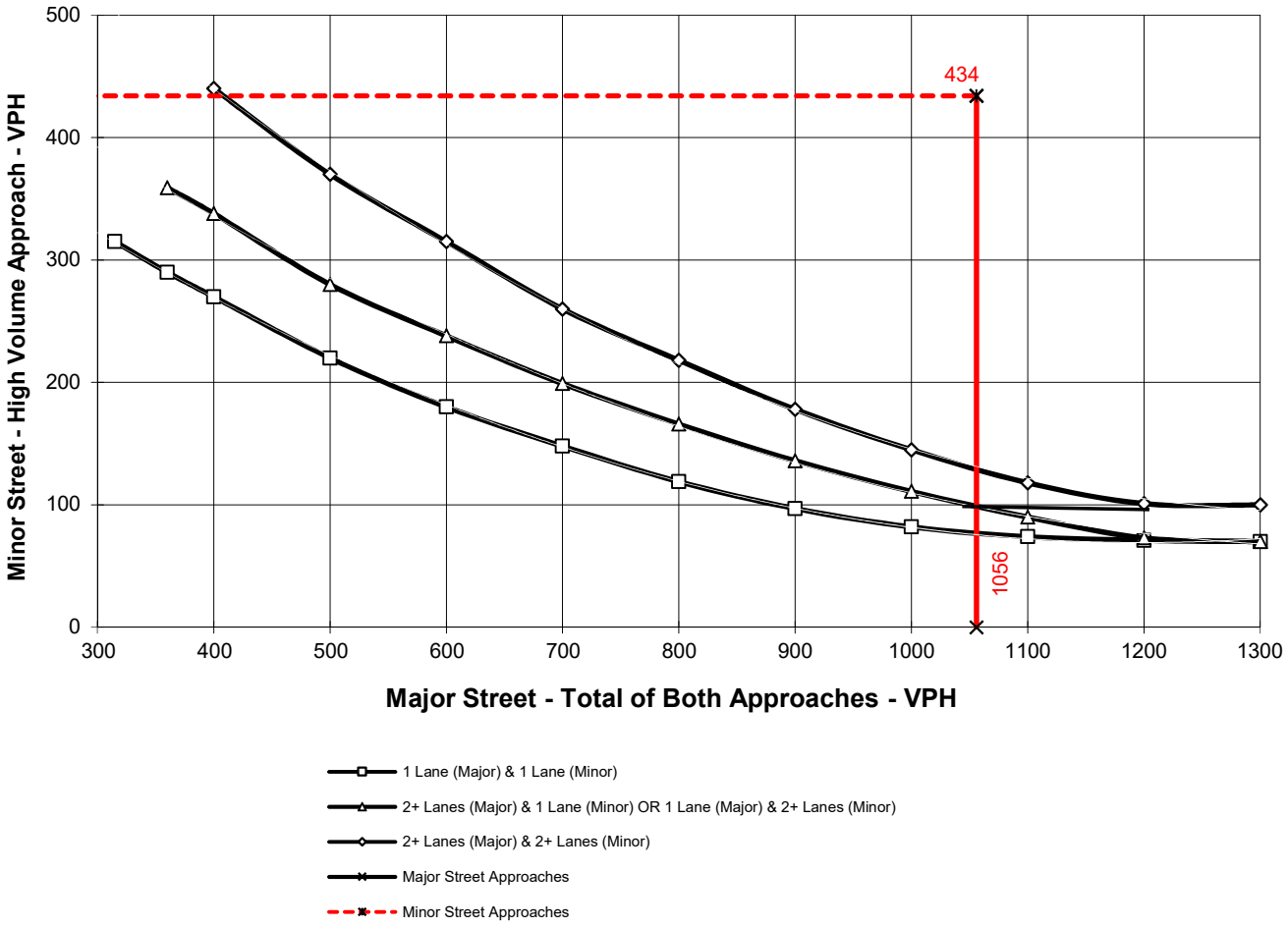
PEAK HOUR VOLUME WARRANT
(Rural Areas)

Existing + Ambient + Cumulative + Project AM

Major Street Name = **Pierson Blvd** Total of Both Approaches (VPH) = **1056**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Little Monrongo Rd** High Volume Approach (VPH) = **434**
Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



** NOTE:
100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

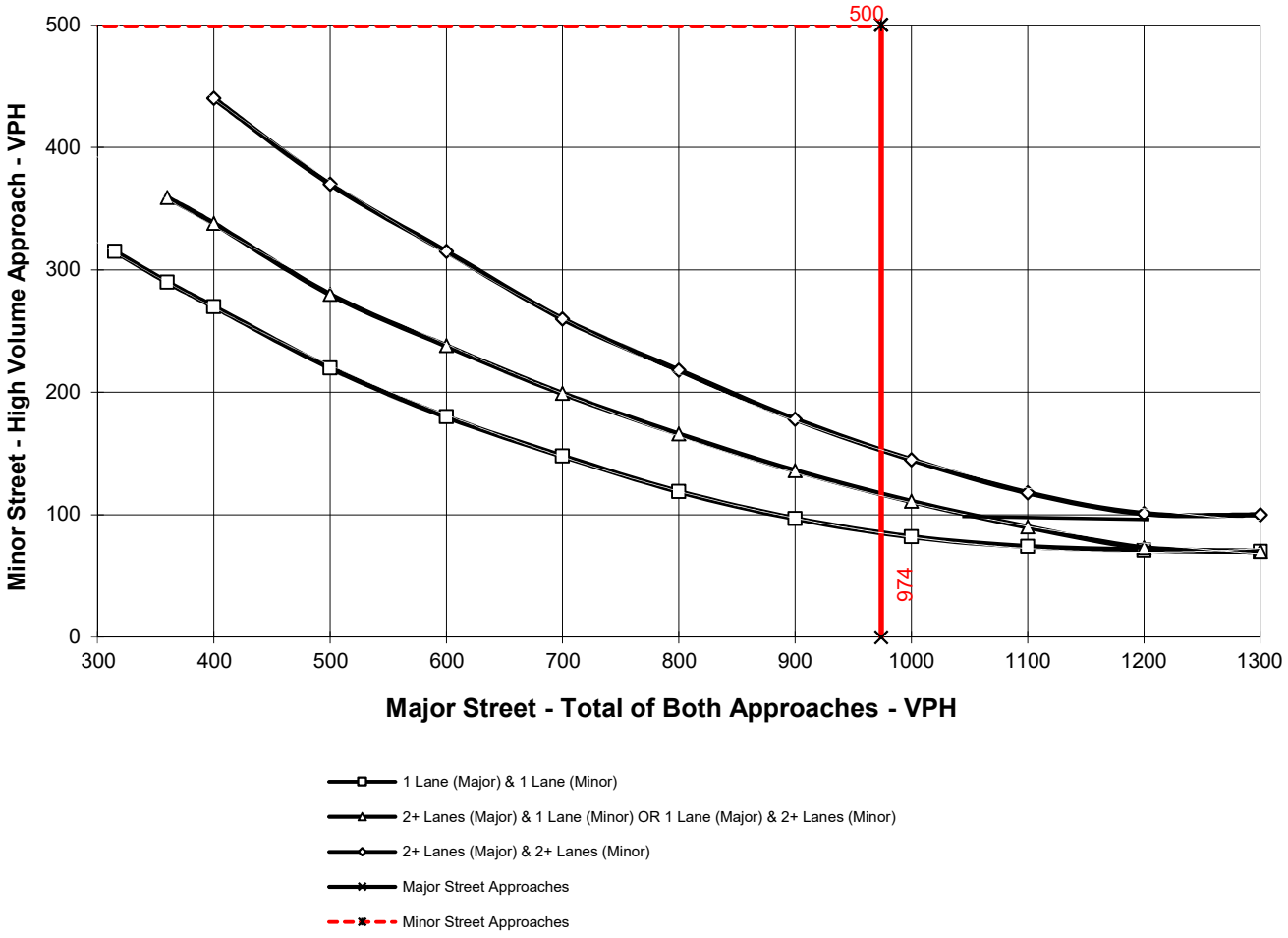
PEAK HOUR VOLUME WARRANT
(Rural Areas)

Existing + Ambient + Cumulative + Project PM

Major Street Name = **Little Monrongo Rd** Total of Both Approaches (VPH) = **974**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Pierson Blvd** High Volume Approach (VPH) = **542**
Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



** NOTE:
100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

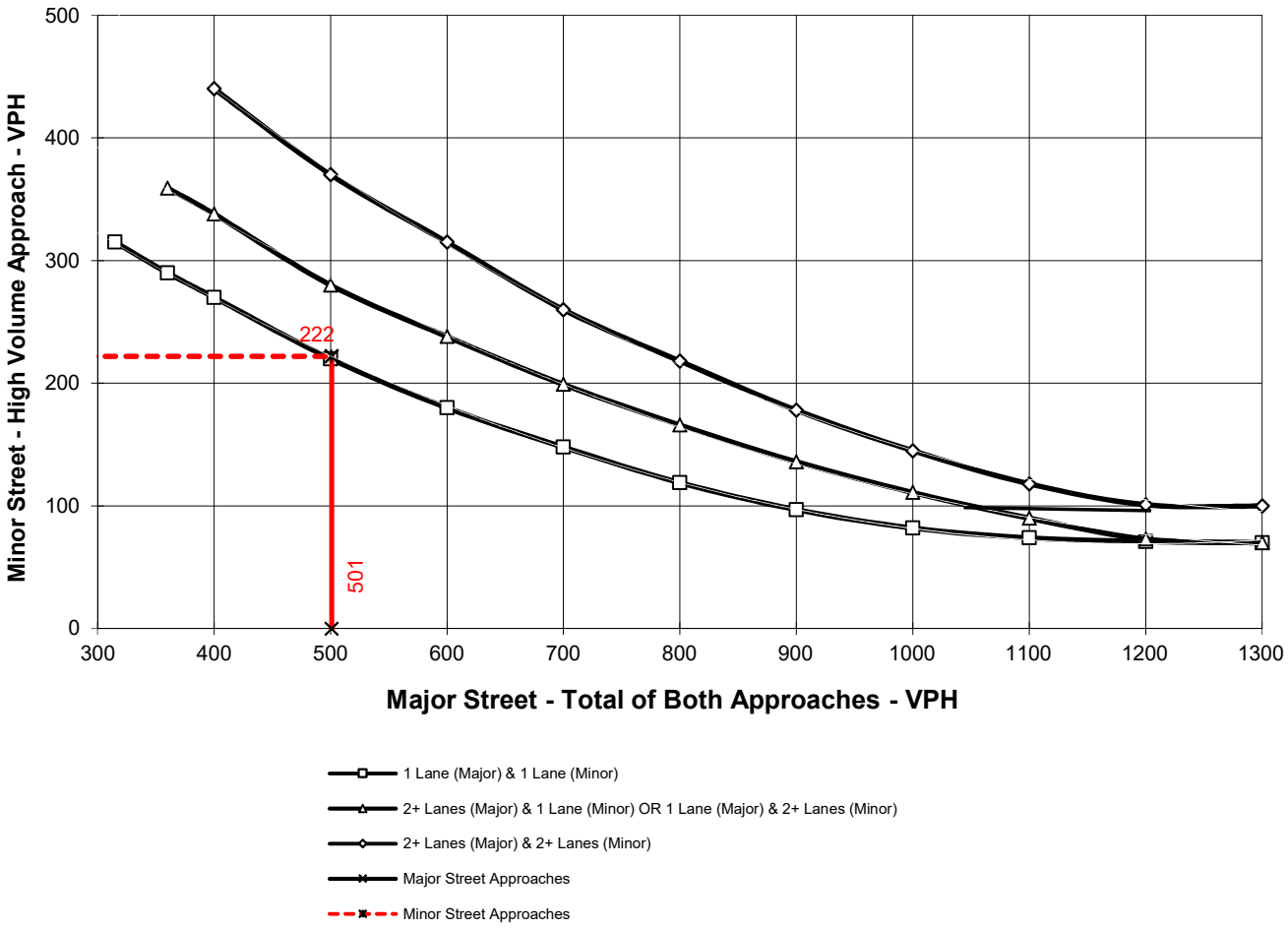
PEAK HOUR VOLUME WARRANT
(Rural Areas)

Existing AM

Major Street Name = **Little Monrongo Rd** Total of Both Approaches (VPH) = **501**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Two Bunch Palms** High Volume Approach (VPH) = **222**
Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



** NOTE:
100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

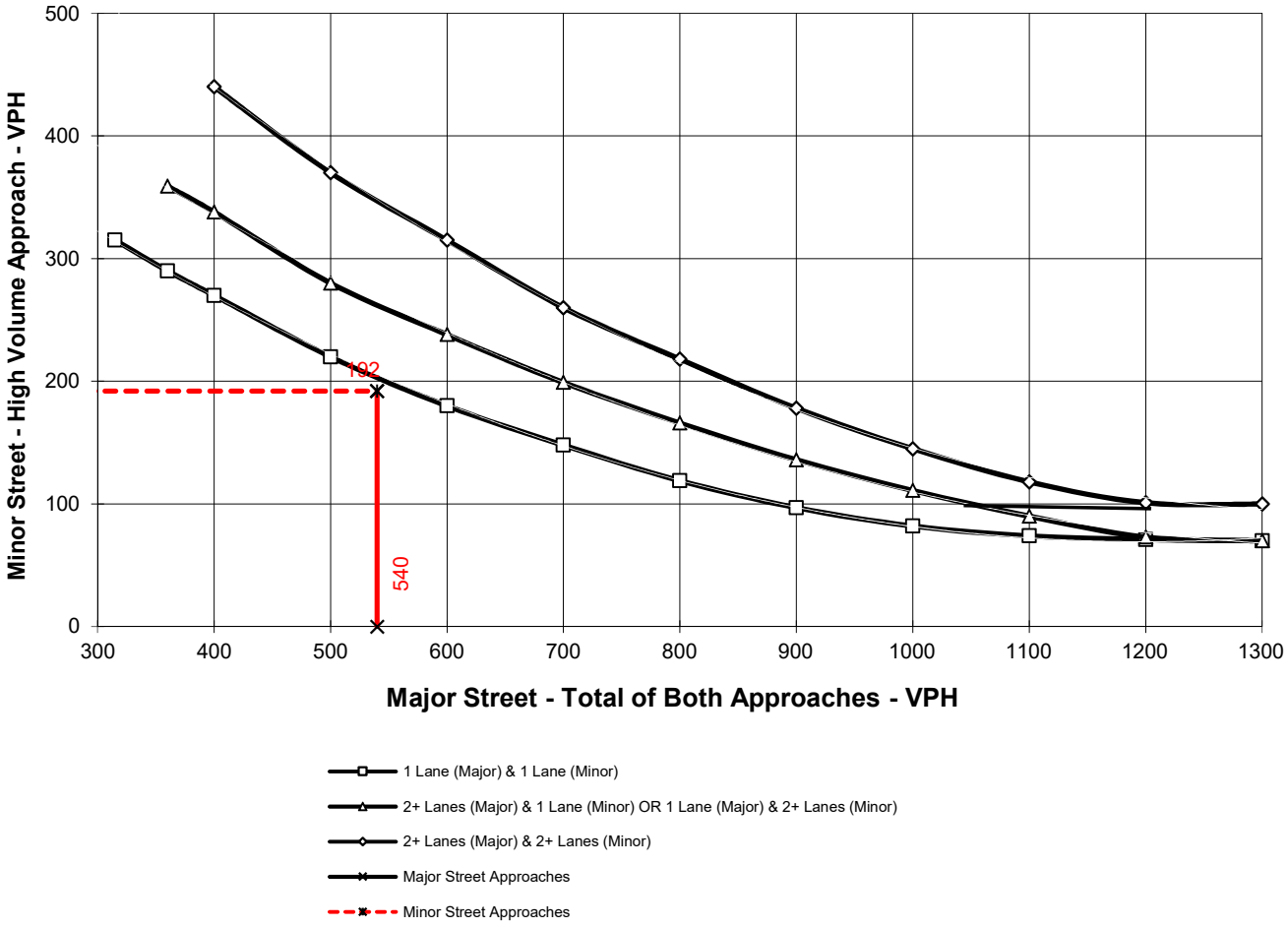
PEAK HOUR VOLUME WARRANT
(Rural Areas)

Existing PM

Major Street Name = **Little Monrongo Rd** Total of Both Approaches (VPH) = **540**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Two Bunch Palms** High Volume Approach (VPH) = **192**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



** NOTE:
100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

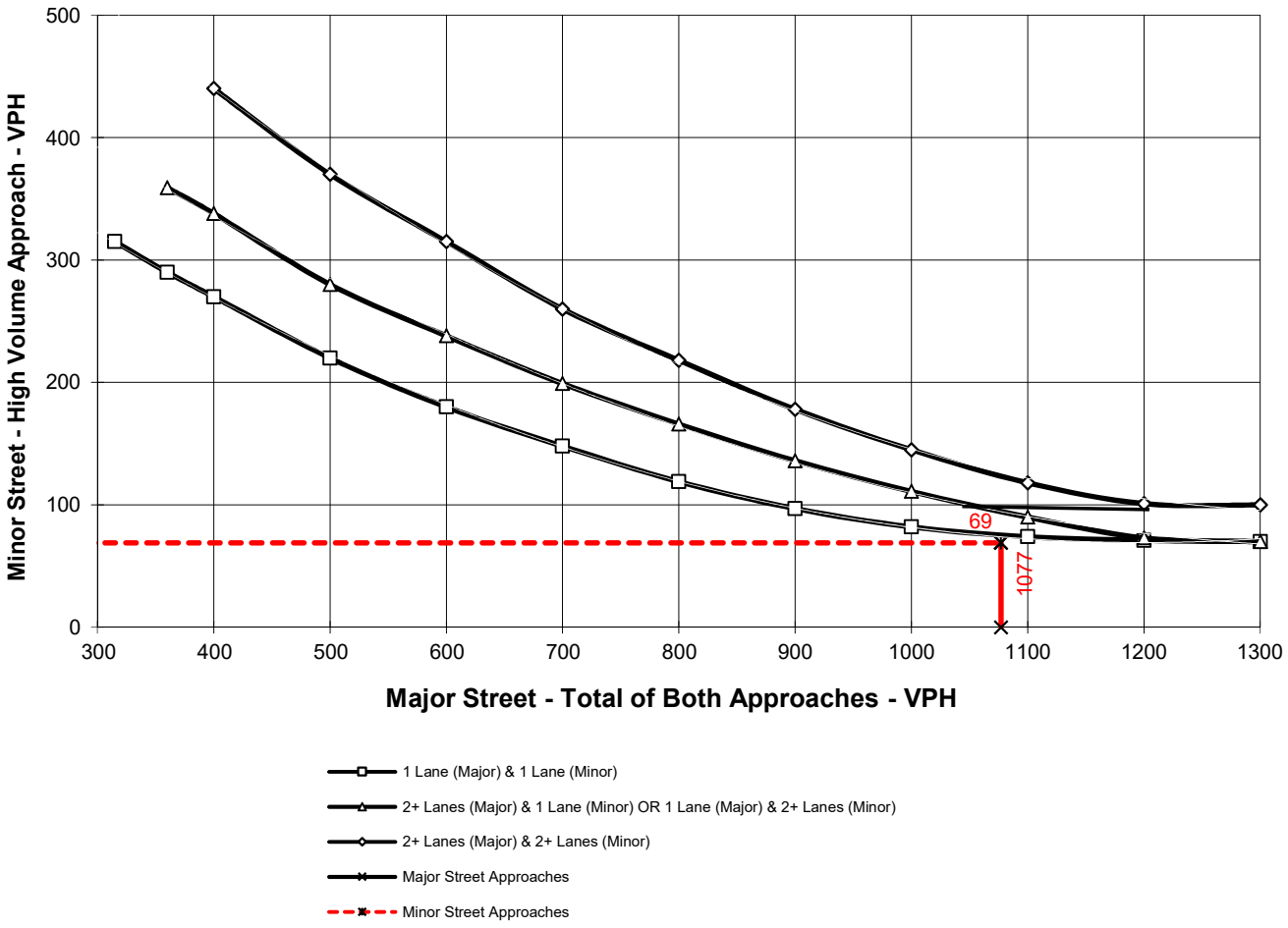
PEAK HOUR VOLUME WARRANT
(Rural Areas)

Existing + Project AM

Major Street Name = **Little Monrongo Rd** Total of Both Approaches (VPH) = **1077**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **15th Ave** High Volume Approach (VPH) = **69**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



** NOTE:
100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

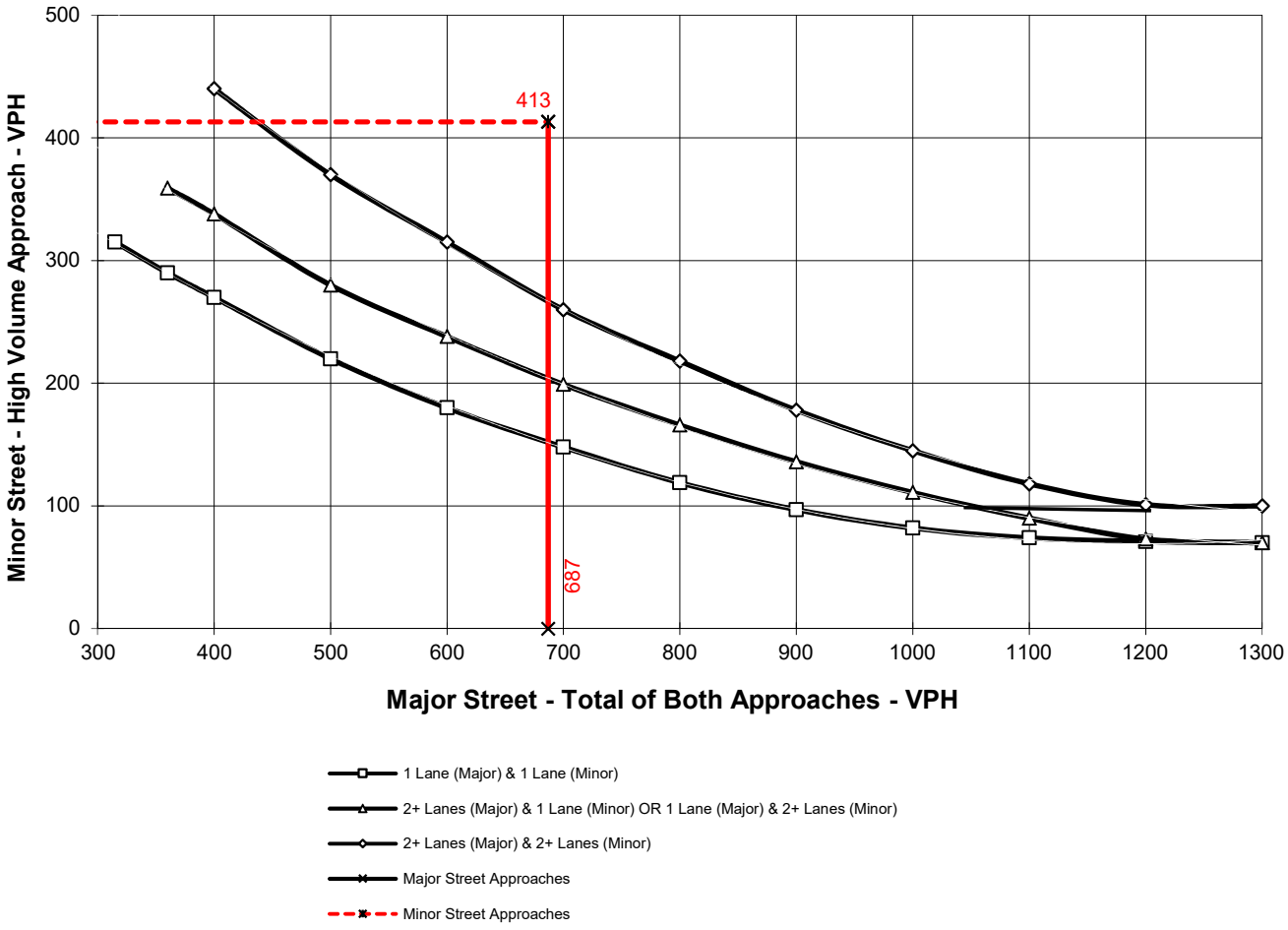
PEAK HOUR VOLUME WARRANT
(Rural Areas)

Existing + Project PM

Major Street Name = **Little Monrongo Rd** Total of Both Approaches (VPH) = **687**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **15th Ave** High Volume Approach (VPH) = **413**
Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



** NOTE:
100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

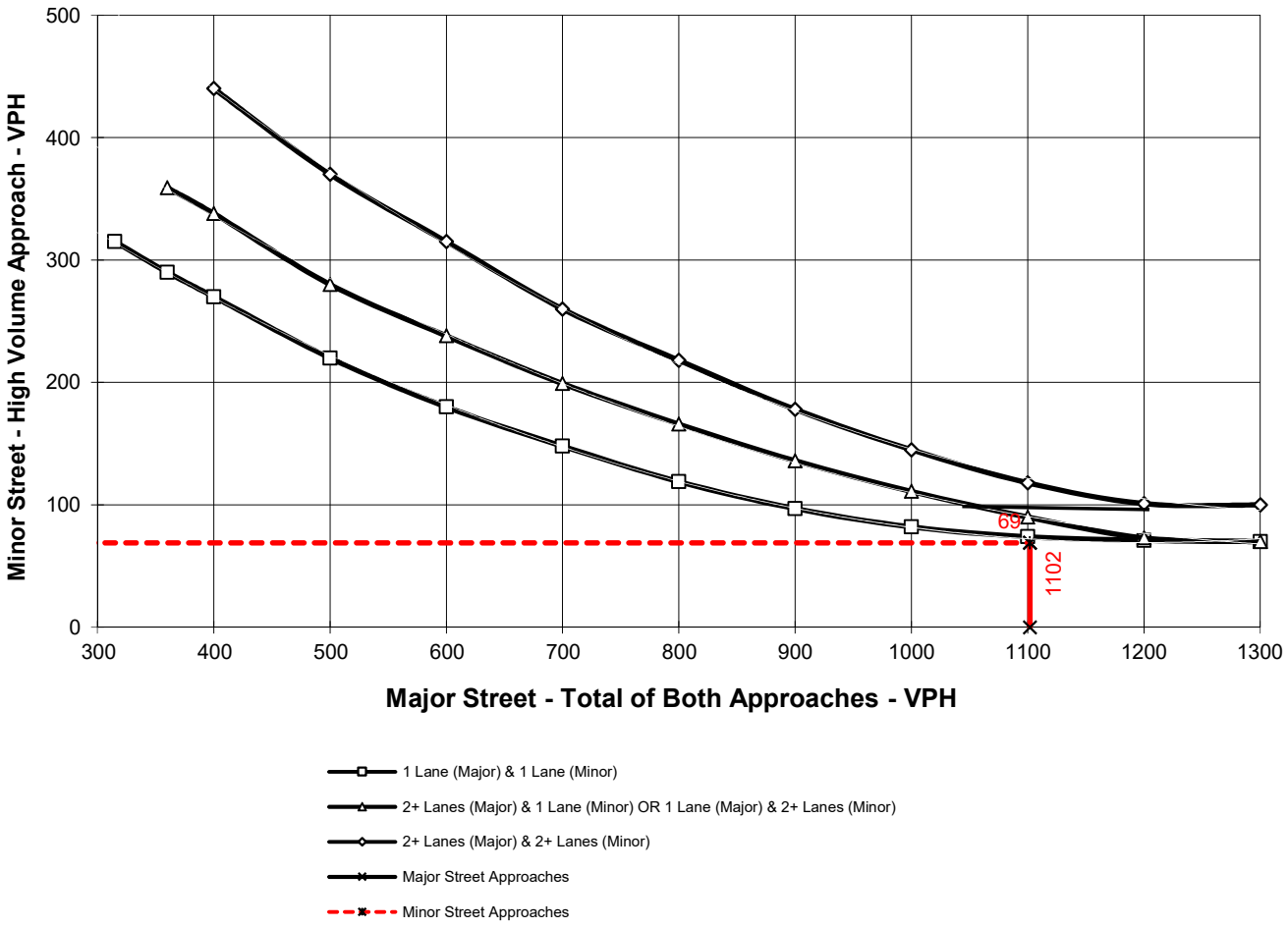
PEAK HOUR VOLUME WARRANT
(Rural Areas)

Existing + Ambient + Project AM

Major Street Name = **Little Monrongo Rd**
Total of Both Approaches (VPH) = **1102**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **15th Ave**
High Volume Approach (VPH) = **69**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



** NOTE:
100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

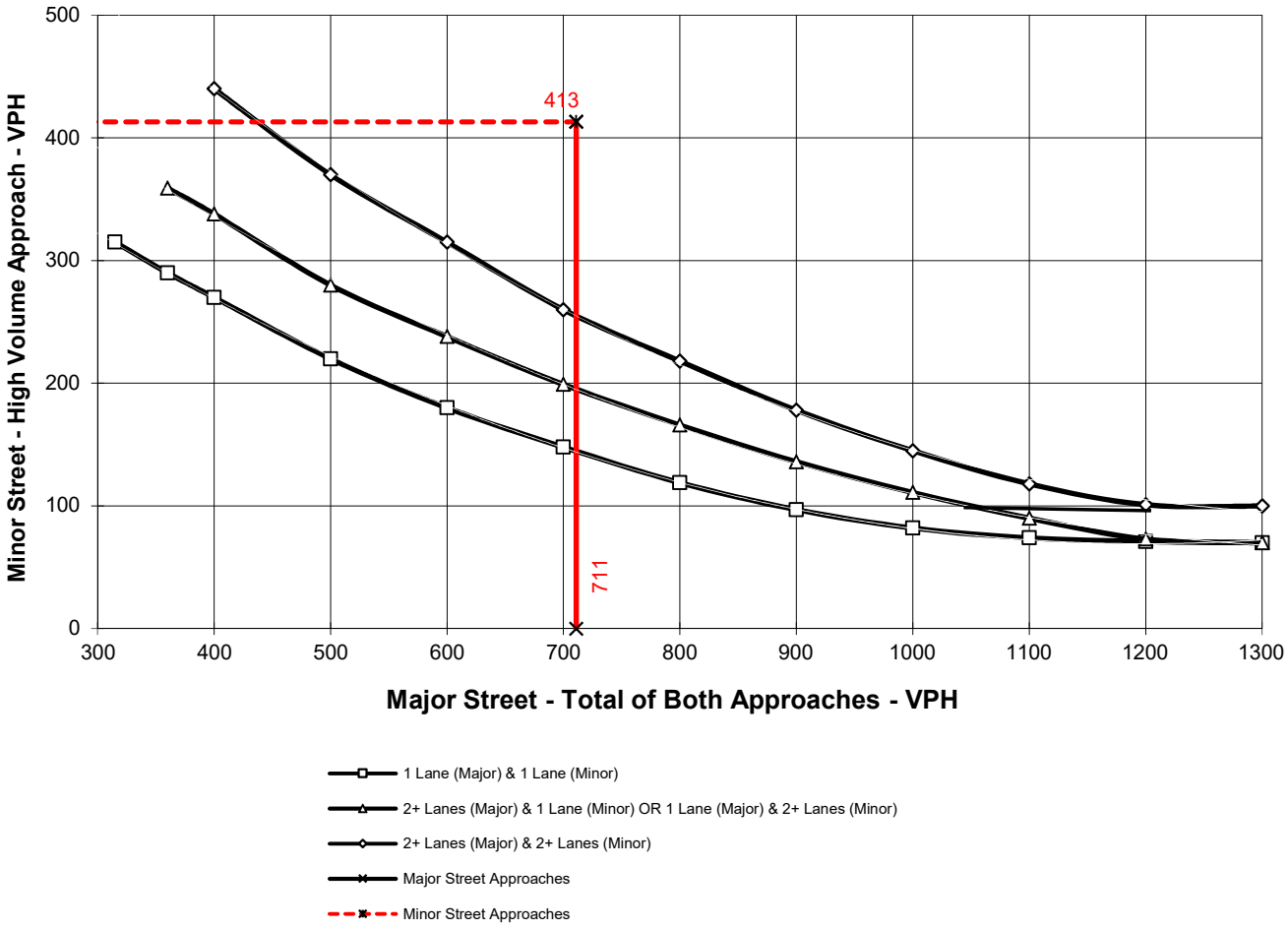
PEAK HOUR VOLUME WARRANT
(Rural Areas)

Existing + Ambient + Project PM

Major Street Name = **Little Monrongo Rd** Total of Both Approaches (VPH) = **711**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **15th Ave** High Volume Approach (VPH) = **413**
Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



** NOTE:
100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

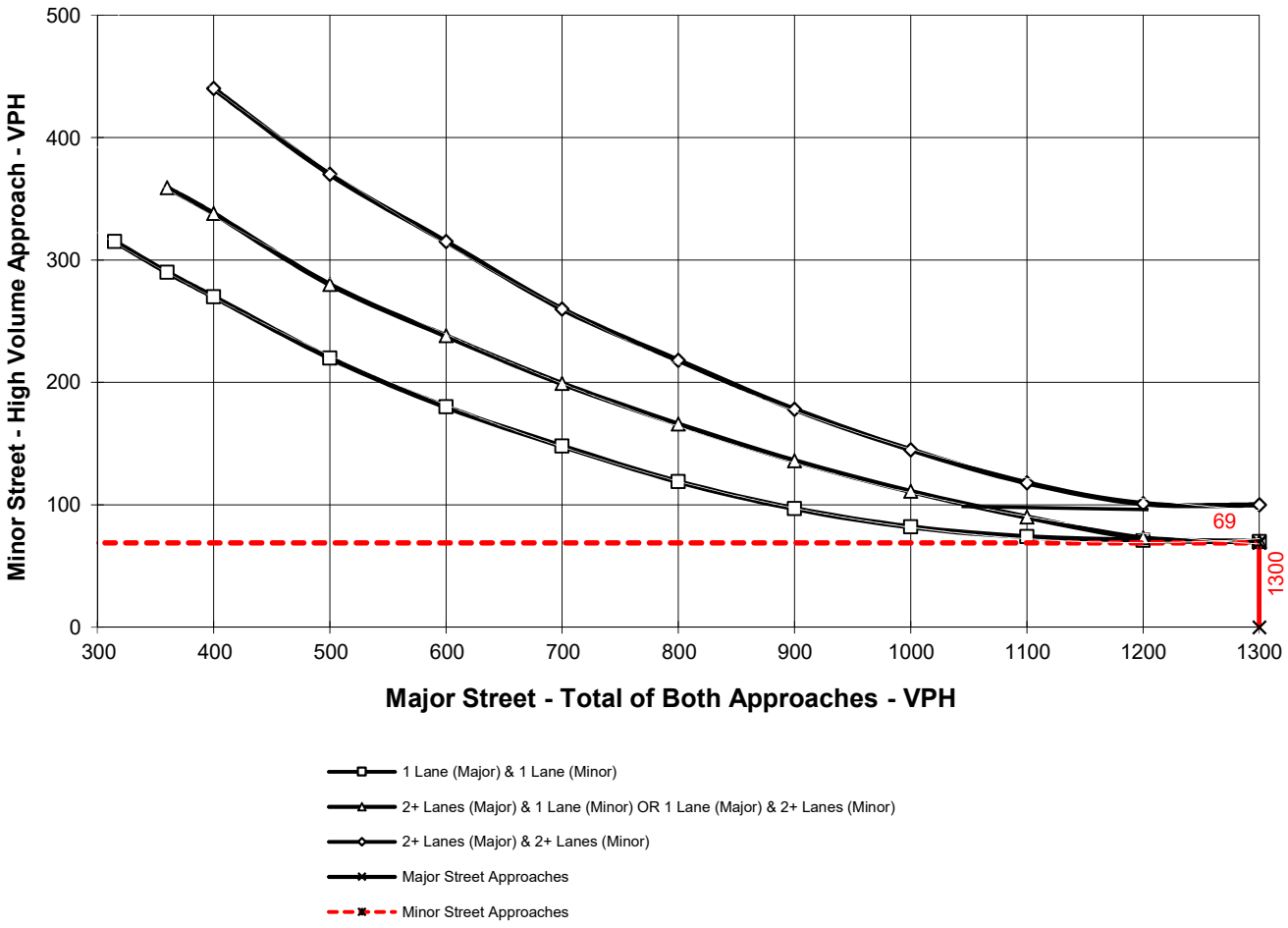
PEAK HOUR VOLUME WARRANT
(Rural Areas)

Existing + Ambient + Cumulative + Project AM

Major Street Name = **Little Monrongo Rd**
Total of Both Approaches (VPH) = **2574**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **15th Ave**
High Volume Approach (VPH) = **69**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



** NOTE:
100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

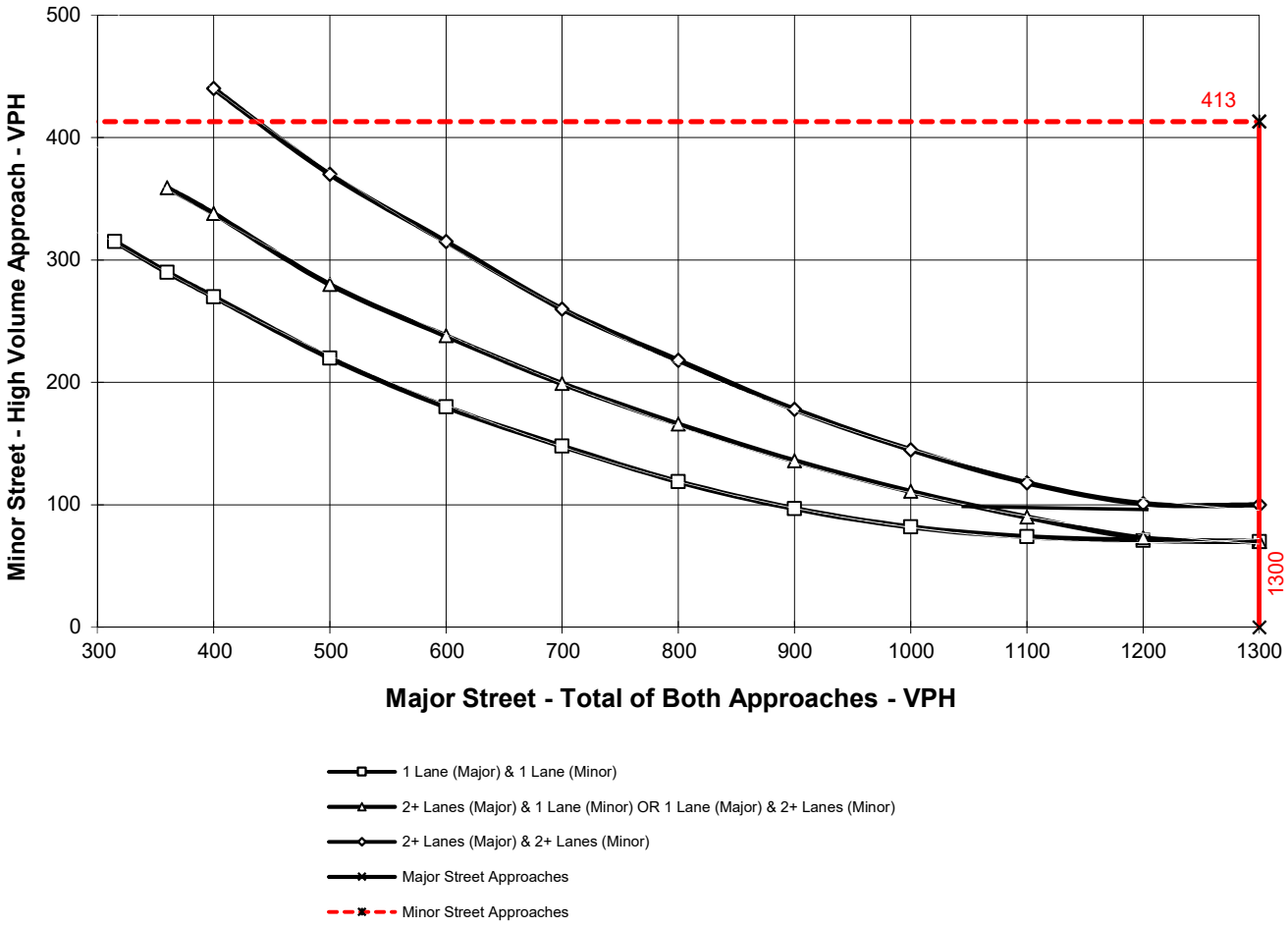
PEAK HOUR VOLUME WARRANT
(Rural Areas)

Existing + Ambient + Cumulative + Project PM

Major Street Name = **Little Monrongo Rd**
Total of Both Approaches (VPH) = **1630**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **15th Ave**
High Volume Approach (VPH) = **413**
Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



** NOTE:
100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

PEAK HOUR VOLUME WARRANT
(Rural Areas)

Existing AM

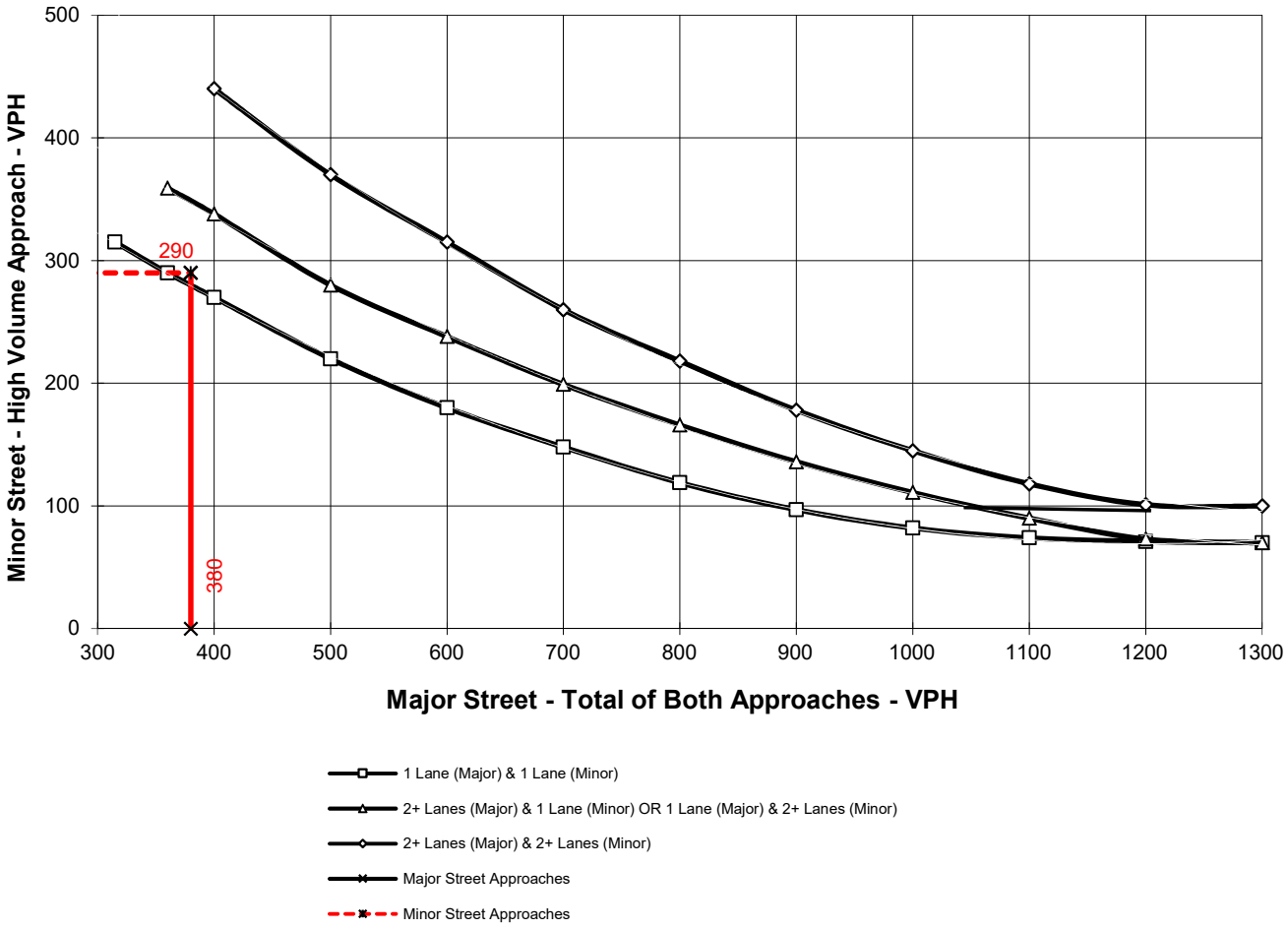
Major Street Name = **Dillon Rd**

Total of Both Approaches (VPH) = **380**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Little Monrongo Rd**

High Volume Approach (VPH) = **290**
Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



** NOTE:
100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

PEAK HOUR VOLUME WARRANT
(Rural Areas)

Existing PM

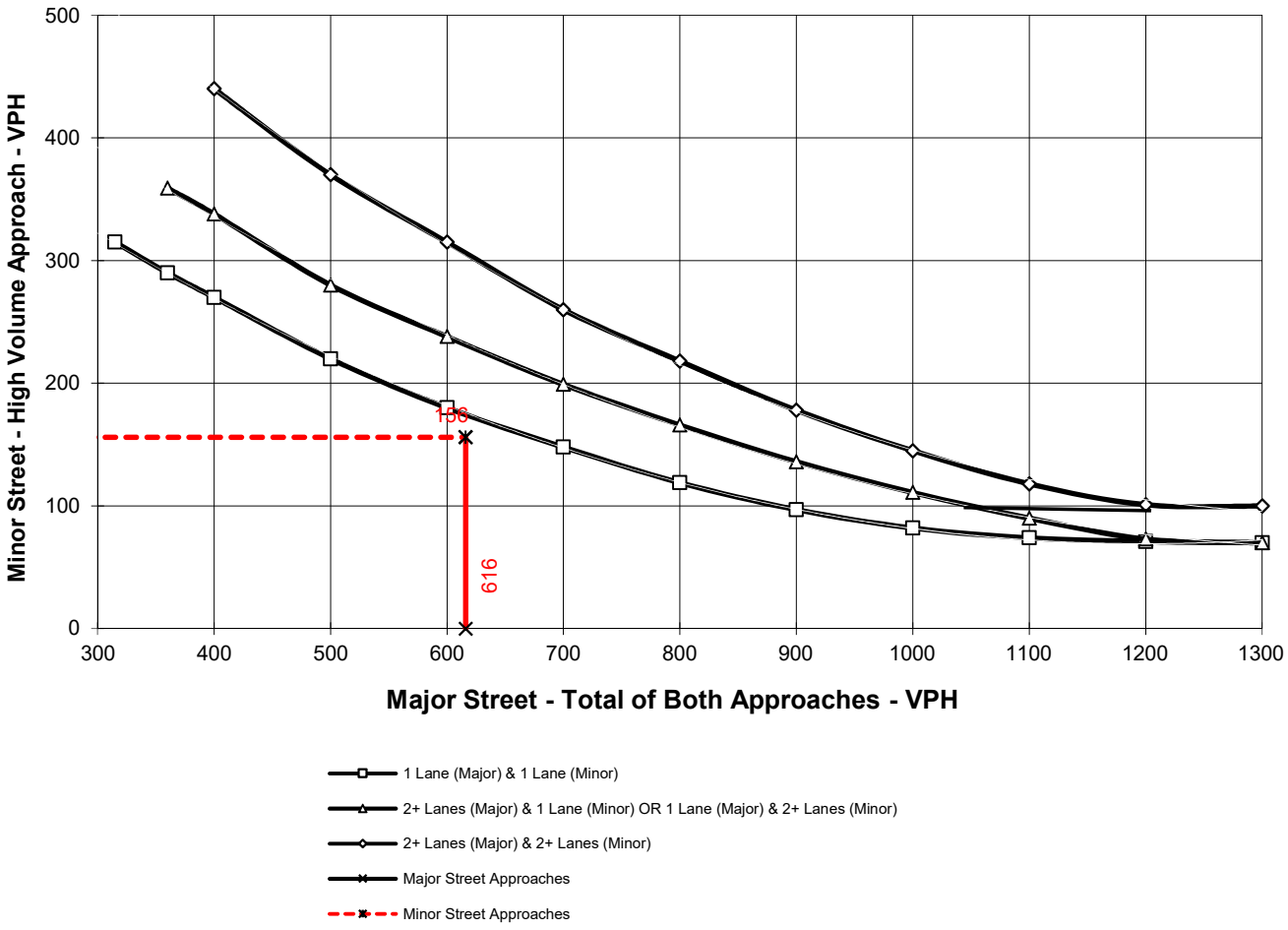
Major Street Name = **Dillon Rd**

Total of Both Approaches (VPH) = **616**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Little Monrongo Rd**

High Volume Approach (VPH) = **156**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



** NOTE:
100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

PEAK HOUR VOLUME WARRANT
(Rural Areas)

Existing AM

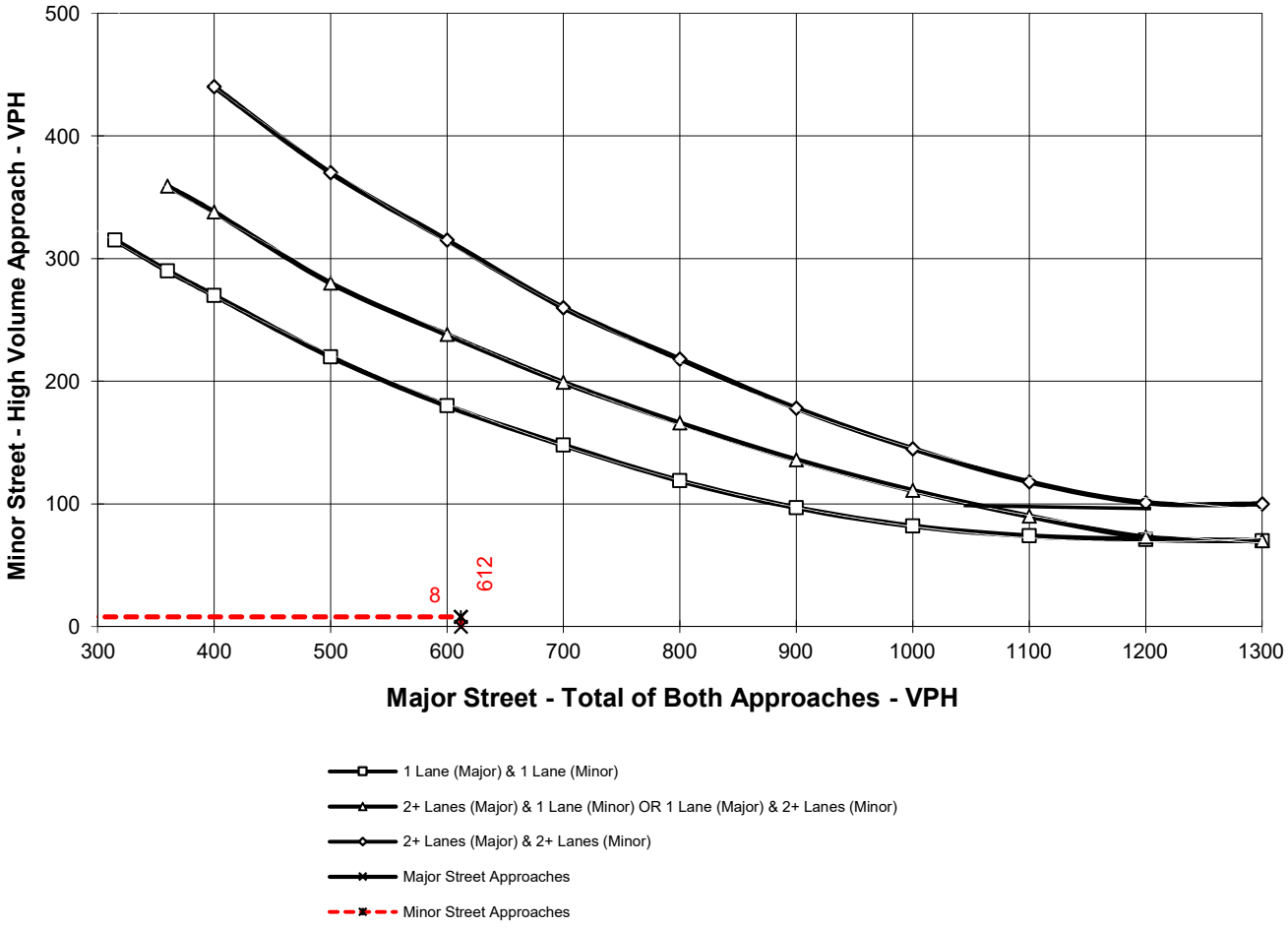
Major Street Name = **Dillon Rd**

Total of Both Approaches (VPH) = **612**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Atlantic Ave**

High Volume Approach (VPH) = **8**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



** NOTE:
100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

PEAK HOUR VOLUME WARRANT
(Rural Areas)

Existing PM

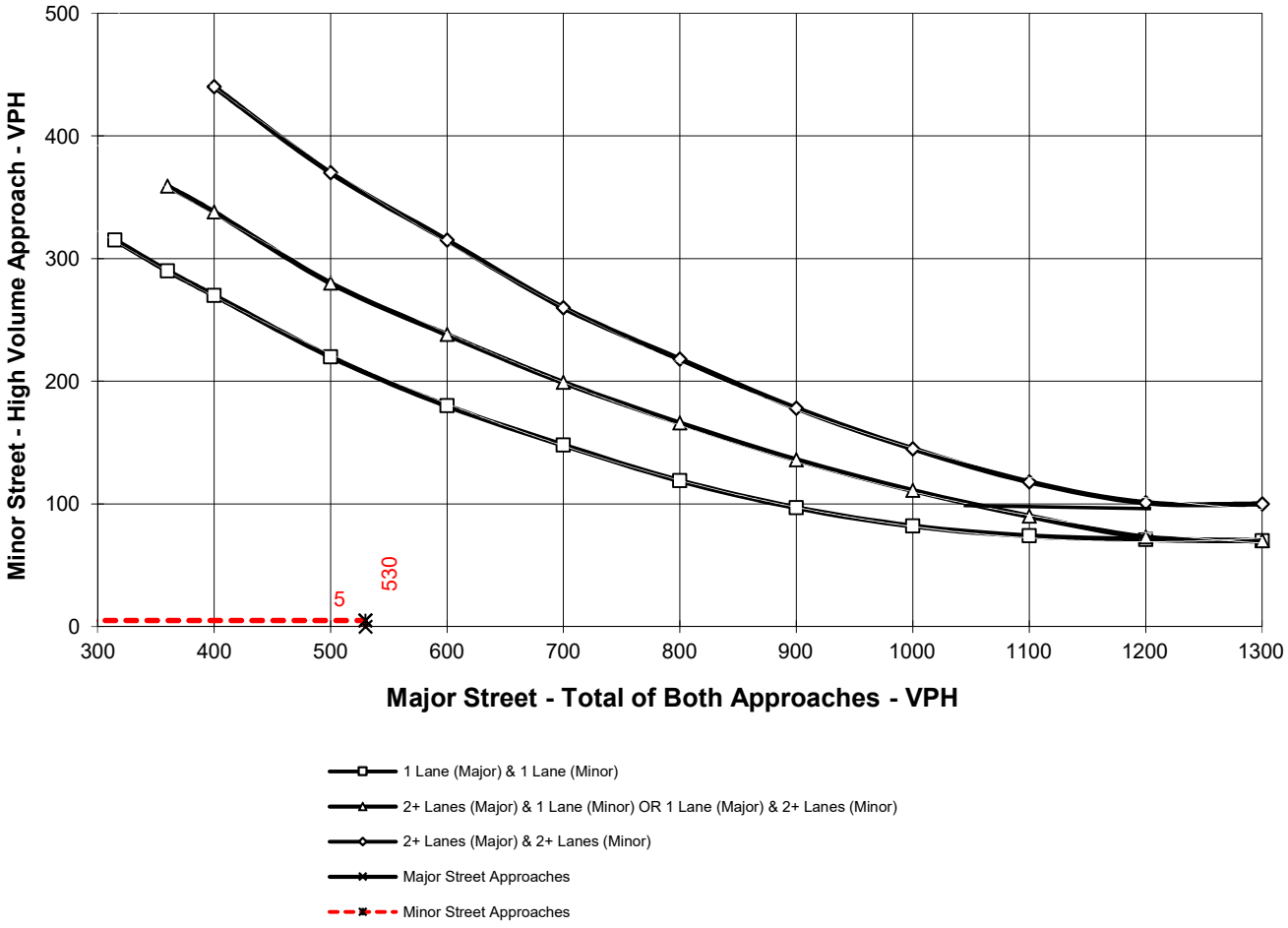
Major Street Name = **Dillon Rd**

Total of Both Approaches (VPH) = **530**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Atlantic Ave**

High Volume Approach (VPH) = **5**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



** NOTE:
100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

PEAK HOUR VOLUME WARRANT
(Rural Areas)

Existing + Ambient + Cumulative + Project AM

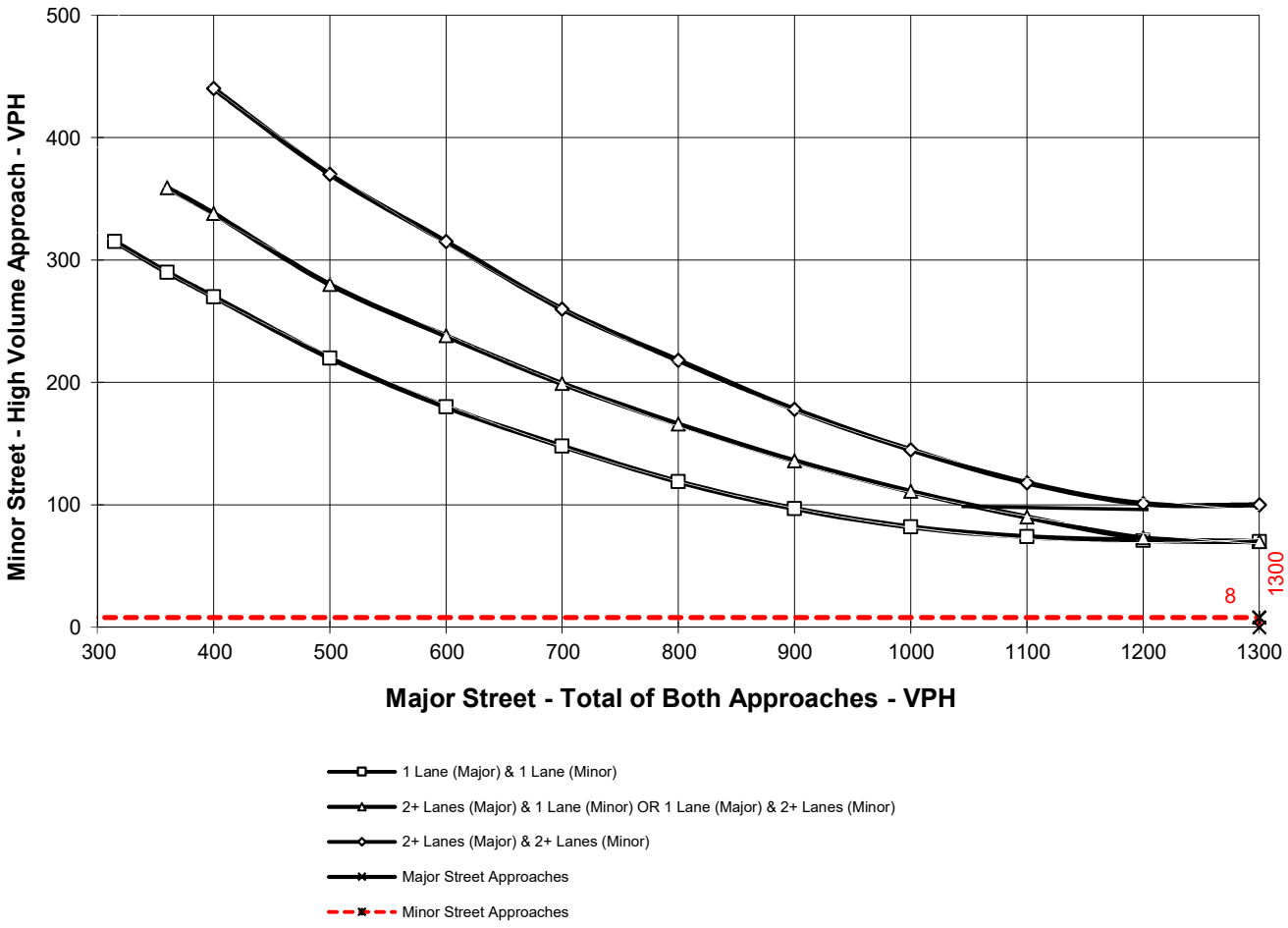
Major Street Name = **Dillon Rd**

Total of Both Approaches (VPH) = **2520**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Atlantic Ave**

High Volume Approach (VPH) = **8**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



** NOTE:
100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

PEAK HOUR VOLUME WARRANT
(Rural Areas)

Existing + Ambient + Cumulative + Project PM

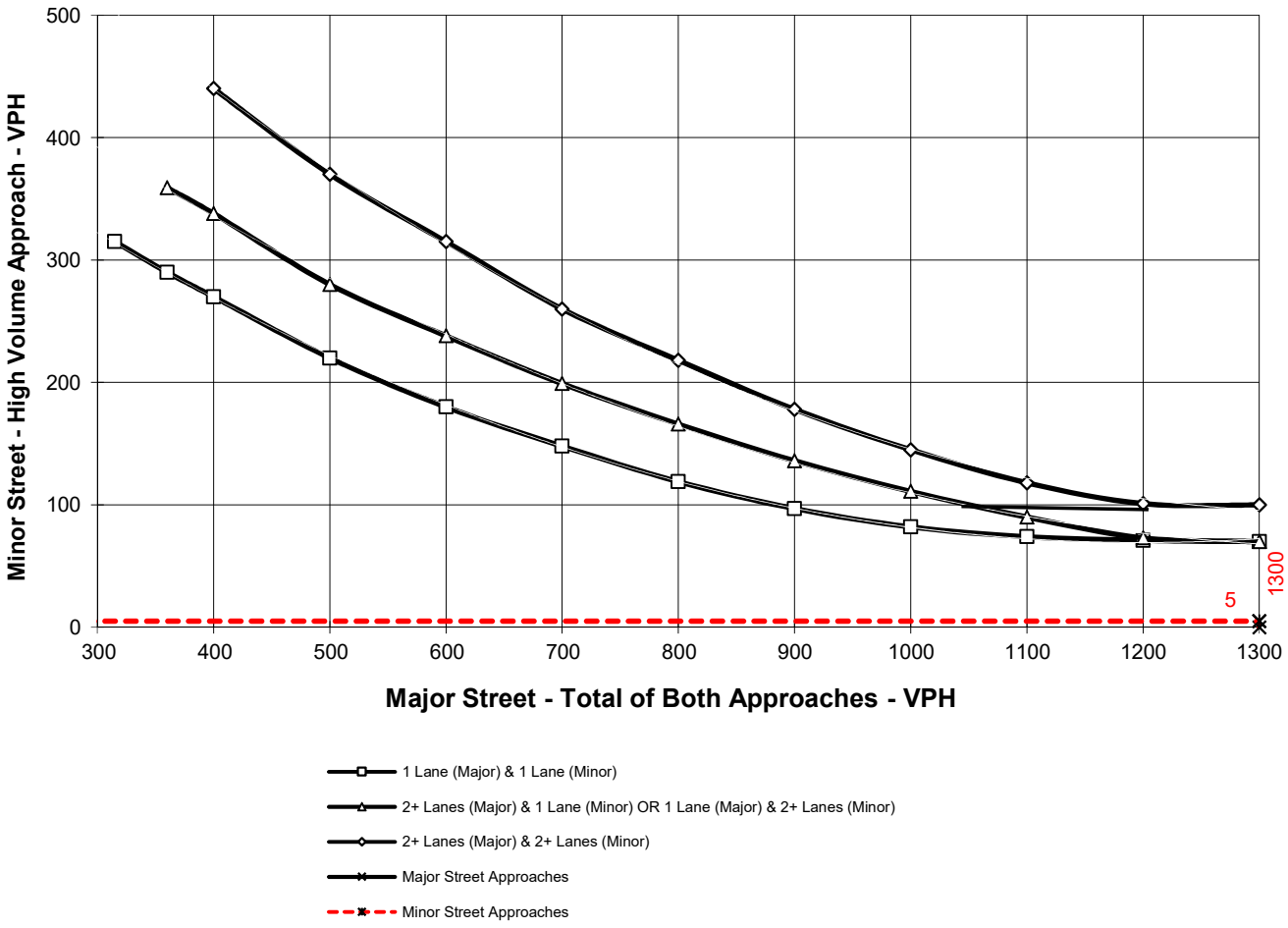
Major Street Name = **Dillon Rd**

Total of Both Approaches (VPH) = **2449**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Atlantic Ave**

High Volume Approach (VPH) = **5**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



** NOTE:
100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

PEAK HOUR VOLUME WARRANT
(Rural Areas)

Existing AM

Major Street Name = **Palm Dr**

Total of Both Approaches (VPH) = **1994**

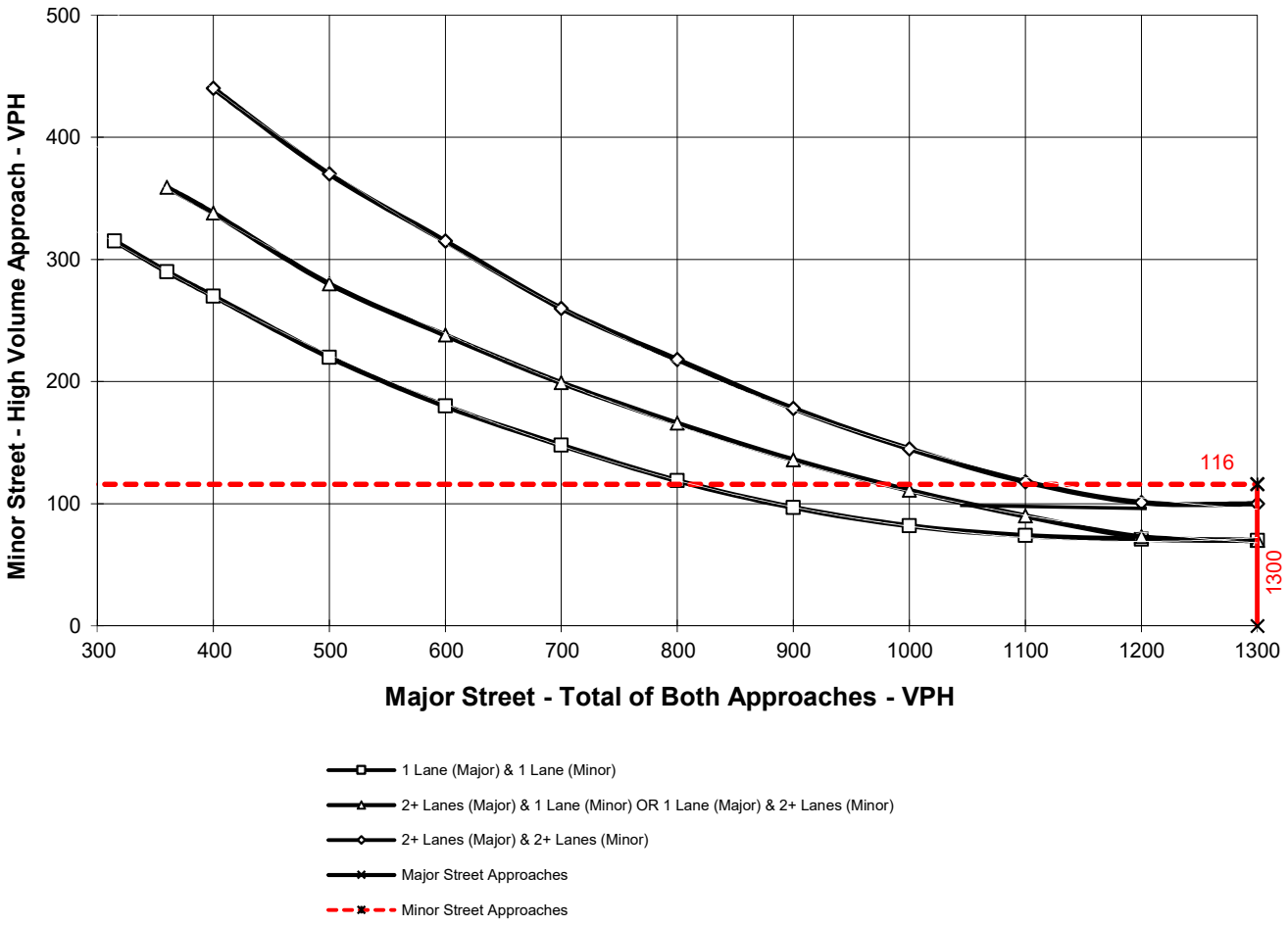
Number of Approach Lanes Major Street = **2**

Minor Street Name = **Camino Aventura**

High Volume Approach (VPH) = **116**

Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



** NOTE:
100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

PEAK HOUR VOLUME WARRANT
(Rural Areas)

Existing PM

Major Street Name = **Palm Dr**

Total of Both Approaches (VPH) = **2257**

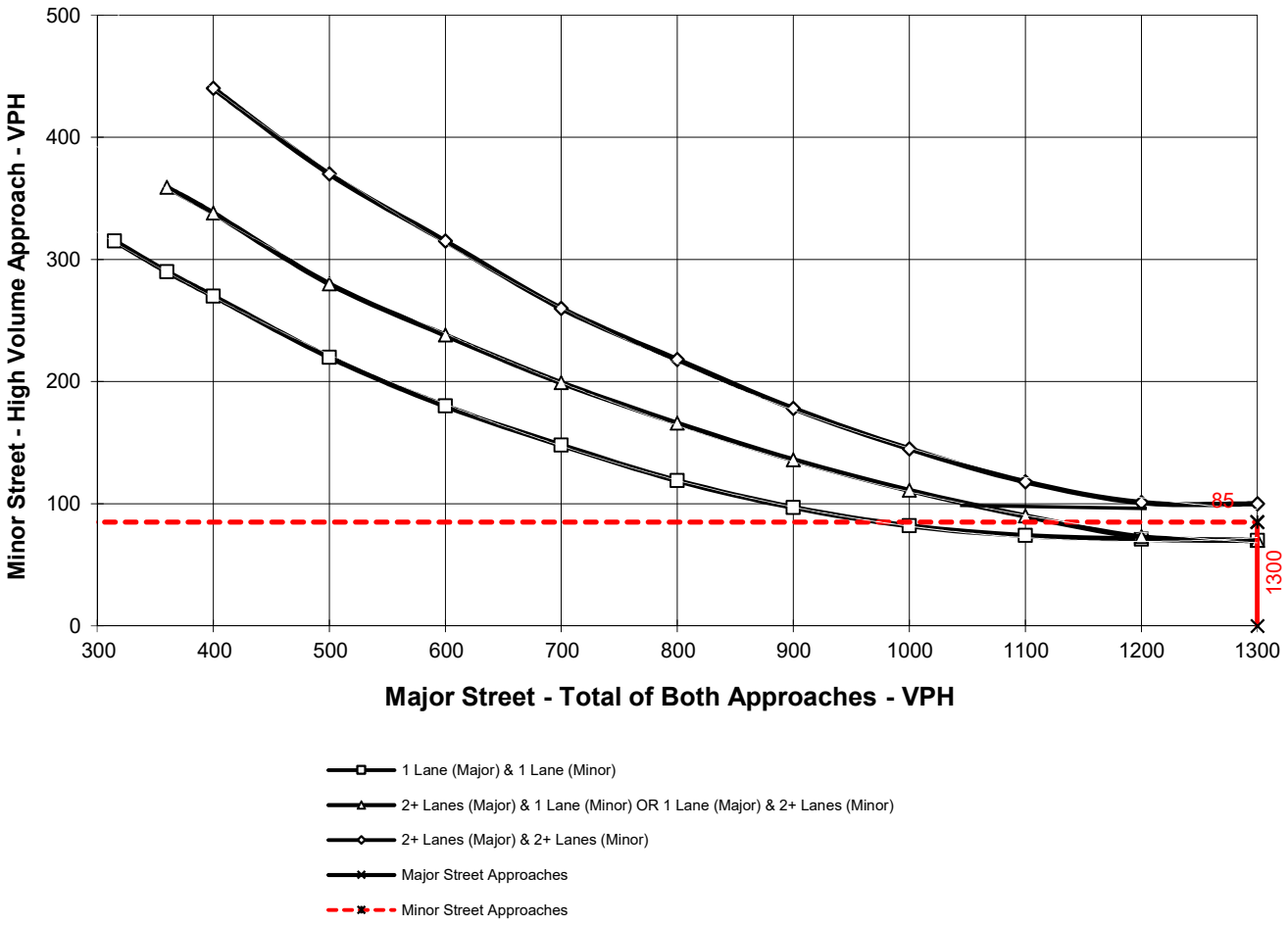
Number of Approach Lanes Major Street = **2**

Minor Street Name = **Camino Aventura**

High Volume Approach (VPH) = **85**

Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



** NOTE:
100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.



GANDDINI GROUP, INC.
550 Parkcenter Drive, Suite 202, Santa Ana, CA 92705
714.795.3100 | www.ganddini.com

Appendix I2

Vehicle Miles Traveled Memo

November 4, 2020

Mr. Rich Malacoff
THE ALTUM GROUP
73-710 Fred Waring Drive, Ste. 219
Palm Desert, California 92260

RE: DHS 109 Project Vehicle Miles Traveled Memorandum
Project No. 01-6627

Dear Mr. Malacoff:

INTRODUCTION

Ganddini Group, Inc. is pleased to submit this Vehicle Miles Traveled Memorandum for the proposed DHS 109 Project in the City of Desert Hot Springs. This analysis supplements the DHS 109 Project Traffic Impact Analysis (Ganddini Group, Inc., May 21, 2019) ["Project TIA"]. A copy of the trip generation forecast from the Project TIA (Table 2) is included in Attachment A.

PROJECT DESCRIPTION

The project location and site plan are shown on Figures 1 and 2.

The project site is located east of Little Morongo Road between 15th Avenue and 16th Avenue in the City of Desert Hot Springs. The project site is proposed to include a total of 1,284,180 square feet of various industrial uses. The project site has a zoning designation of light industrial (I-L) use in the City of Desert Hot Springs General Plan. The applicant will be obtaining a Master Conditional Use Permit for cannabis activities including cultivation, extraction, processing, manufacturing, distribution and potentially, sales. The project site is proposed to consist of 364,180 square feet of general light industrial use and 920,000 square feet of industrial park (cannabis activity) use for a total of 1,284,180 square feet.

PROJECT TRIPS

Based on the project trip generation forecast as documented in the Project TIA (see Attachment A), the proposed project is forecast to generate a total of approximately 3,665 daily PCE trips, including 531 PCE trips during the morning peak hour and 490 PCE trips during the evening peak hour.

VEHICLE MILES TRAVELED ANALYSIS

The City of Desert Hot Springs has not established vehicle miles traveled (VMT) analysis procedures or thresholds of significance at this time. Therefore, this VMT assessment has been prepared in accordance with the methodology established in County of Riverside Draft Transportation Analysis Guidelines, September 2020 ["Riverside County TA Guidelines"].

Mr. Rich Malacoff
THE ALTUM GROUP
November 4, 2020

BACKGROUND

California Senate Bill 743 (SB 743) directs the State Office of Planning and Research (OPR) to amend the California Environmental Quality Act (CEQA) Guidelines for evaluating transportation impacts to provide alternatives to Level of Service that "promote the reduction of greenhouse gas emissions, the development of multimodal transportation networks, and a diversity of land uses." In December 2018, the California Natural Resources Agency certified and adopted the updated CEQA Guidelines package. The amended CEQA Guidelines, specifically Section 15064.3, recommend the use of VMT as the primary metric for the evaluation of transportation impacts associated with land use and transportation projects. In general terms, VMT quantifies the amount and distance of automobile travel attributable to a project or region. All agencies and projects State-wide are required to utilize the updated CEQA guidelines recommending use of VMT for evaluating transportation impacts as of July 1, 2020.

The updated CEQA Guidelines allow for lead agency discretion in establishing methodologies and thresholds provided there is substantial evidence to demonstrate that the established procedures promote the intended goals of the legislation. Where quantitative models or methods are unavailable, Section 15064.3 allows agencies to assess VMT qualitatively using factors such as availability of transit and proximity to other destinations. The Office of Planning and Research (OPR) Technical Advisory on Evaluating Transportation Impacts in CEQA (State of California, December 2018) ["OPR Technical Advisory"] provides technical considerations regarding methodologies and thresholds with a focus on office, residential, and retail developments as these projects tend to have the greatest influence on VMT.

THRESHOLDS OF SIGNIFICANCE

In accordance with Riverside County TA Guidelines, a VMT impact for office and other employment land uses is considered significant if the project VMT exceeds the existing county-wide average work VMT per employee.

PROJECT SCREENING

The Riverside County TA Guidelines identify the following seven screening criteria to determine if a presumption of a non-significant transportation impact can be made based on the facts of the project:

- Small Projects
- Projects Near High Quality Transit
- Local-Serving Retail
- Affordable Housing
- Local Essential Service
- Map-Based Screening
- Redevelopment Projects

Map-Based Screening

The OPR Technical Advisory provides guidance indicating that residential and office projects located in areas with low VMT and that exhibit similar VMT-related features (e.g., density, mix of uses, transit accessibility), will typically exhibit similarly low VMT. Identifying low VMT areas requires maps to be created using VMT data from travel surveys or a travel demand model that illustrate areas that are below the established VMT threshold.

Since the County of Riverside has not developed low VMT screening maps at this time and the Western Riverside Council of Governments (WRCOG) VMT Screening Tool does not cover the Coachella Valley, existing VMT for the traffic analysis zone (TAZ) containing the project was compared to the thresholds established by the County of Riverside using the Riverside Transportation Analysis Model (RIVTAM) base year 2012 model.

VMT data from the RIVTAM base year 2012 model was extracted by AFSHA Consulting, Inc. in accordance with the VMT analysis methodology contained in Appendix E of the Riverside County TA guidelines, including adjustments for trips outside the County by using the average lengths provided by the County. In accordance with Riverside County TA Guidelines, work VMT is derived from commute trips represented by the attraction trips the model. Since the RIVTAM model runs produced a county-wide VMT per employee value slightly lower than the 14.2 VMT per employee as noted in the Riverside County TA Guidelines, the initial model outputs were factored by 1.034 to provide a consistent analysis. TAZ and model output summaries are provided Attachment B.

The project site is located in TAZ 4522, which generates approximately 10.14 work VMT per employee. Comparatively, the existing County of Riverside threshold is 14.2 work VMT per employee. Furthermore, the proposed project is consistent with the existing Industrial/Industrial Cannabis Overlay land use designations in the City of Desert Hot Springs General Plan. Therefore, the proposed project is located in a low VMT area for employment-based land uses and may be presumed to result in a less than significant VMT impact based on County-established thresholds.

CONCLUSION

The proposed project is located in a low VMT area for employment-based land uses and may be presumed to result in a less than significant VMT impact based on County-established thresholds; therefore, no VMT-related mitigation measures are required for the proposed project.

It has been a pleasure to assist you with this project. Should you have any questions or if we can be of further assistance, please do not hesitate to call at (714) 795-3100.

Sincerely,

GANDDINI GROUP, INC.
Giancarlo Ganddini, TE, PTP, Principal



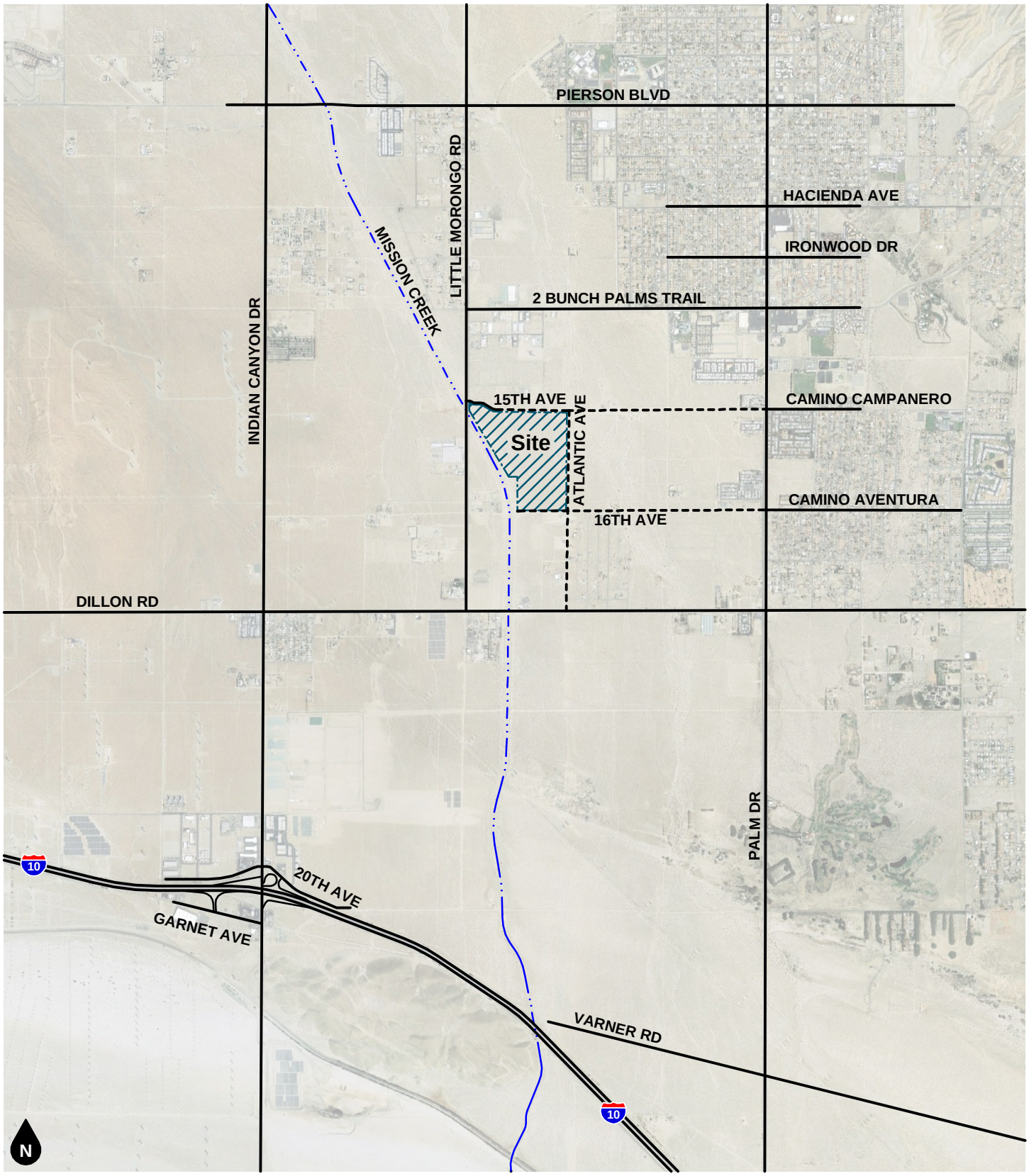


Figure 1
Project Location Map

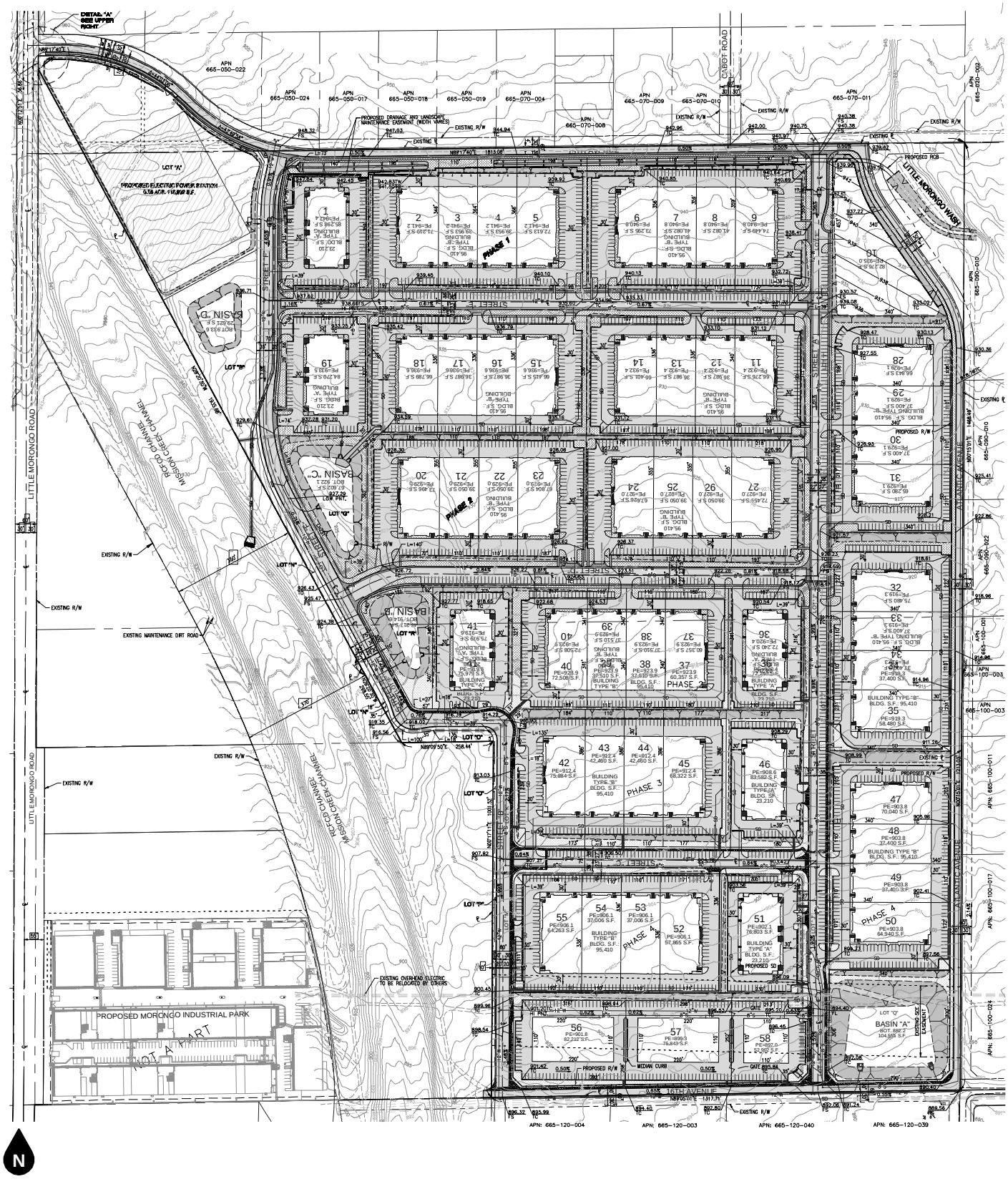


Figure 2
Site Plan

ATTACHMENT A

PROJECT TRIP GENERATION TABLE

Table 2
Project Trip Generation

Trip Generation Rates										
Project				AM Peak			PM Peak			Daily
No.	Land Use	Code[1]	Unit[2]	In%	Out%	Total	In%	Out%	Total	
1	General Light Industrial	ITE 110	TSF	88%	12%	0.700	13%	87%	0.630	4.960
2	78.60% Passenger Cars (PCE[3] = 1.0)	78.60%	1.0	88%	12%	0.550	13%	87%	0.495	3.899
3	8.00% 2-Axle Trucks (PCE[3] = 1.5)	8.00%	1.5	88%	12%	0.084	13%	87%	0.076	0.595
4	3.90% 3-Axle Trucks (PCE[3] = 2.0)	3.90%	2.0	88%	12%	0.055	13%	87%	0.049	0.387
5	9.50% 4-Axle Trucks (PCE[3] = 3.0)	9.50%	3.0	88%	12%	0.200	13%	87%	0.180	1.414
6	Industrial Park (Cannabis Activity)	ITE 130	EMP	86%	14%	0.440	20%	80%	0.420	2.910
7	95.00% Passenger Cars (PCE[3] = 1.0)	95.00%	1.0	86%	14%	0.418	20%	80%	0.399	2.765
8	5.00% 2-Axle Trucks (PCE[3] = 1.5)	5.00%	1.5	86%	14%	0.033	20%	80%	0.032	0.218

Trips Generated									
Project			AM Peak			PM Peak			Daily
No.	Land Use	Quantity[2]	In	Out	Total	In	Out	Total	
A	General Light Industrial	364.180 TSF							
	78.60% Passenger Cars (PCE[3] = 1.0)		176	24	200	23	157	180	1,420
	8.00% 2-Axle Trucks (PCE[3] = 1.5)		27	4	31	4	24	28	217
	3.90% 3-Axle Trucks (PCE[3] = 2.0)		17	3	20	2	16	18	141
	9.50% 4-Axle Trucks (PCE[3] = 3.0)		64	9	73	8	57	65	515
	Total Trips - General Light Industrial		284	40	324	37	254	291	2,293
B	Industrial Park (Cannabis Activity)	460 EMP[4]							
	95.00% Passenger Cars (PCE[3] = 1.0)		165	27	192	37	147	184	1,272
	5.00% 2-Axle Trucks (PCE[3] = 1.5)		13	2	15	3	12	15	100
	Total Trips - Industrial Park (Cannibis Activity)		178	29	207	40	159	199	1,372
Total Project Car PCE Trips			341	51	392	60	304	364	2,692
Total Project Truck PCE Trips			121	18	139	17	109	126	973
Overall Total Project PCE Trips		1,284.180 TSF	462	69	531	77	413	490	3,665

Notes:

(1) Institute of Transportation Engineers, Trip Generation Manual, 10th Edition, 2017. General Light Industrial; Industrial Park.

For General Light Industrial traffic, the vehicle mix assumptions is based on the City of Fontana, Truck Trip Generation Study, April 2003. For cannabis activity (Industrial Park) traffic, 5% of the vehicle mix is assumed to be 2-axle trucks used for delivery.

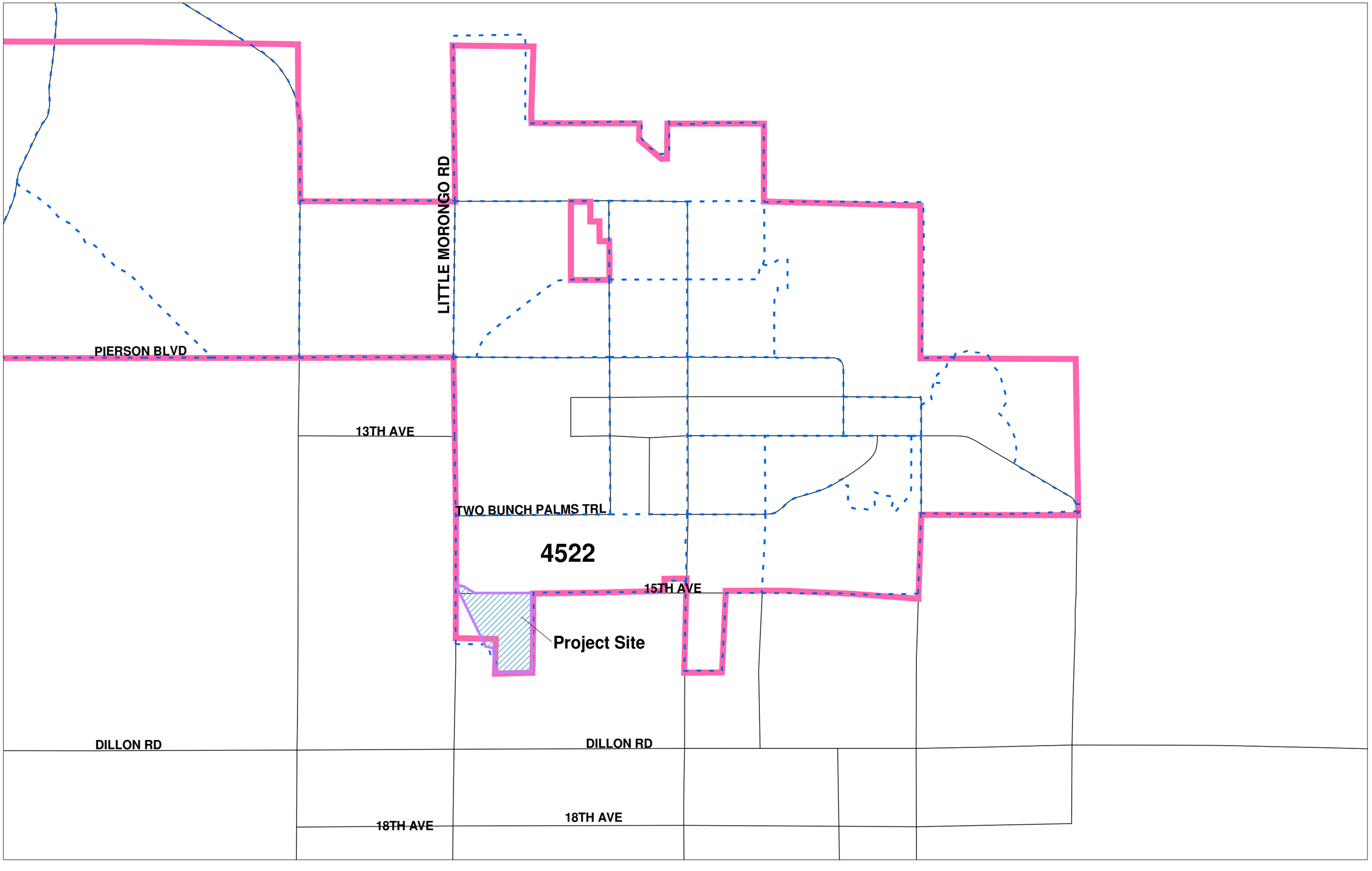
(2) TSF = Thousand Square Feet; EMP = Employees

(3) Passenger Car Equivalence (PCE) rate per San Bernardino Association of Governments (SANBAG) guidelines.

(4) For the proposed cannabis activity (including cultivation, extraction, testing and other support services), the total number of employees is estimated based on one employee per 2,000 square feet of building area. This employee-to-square footage ratio is consistent to other operational assumptions of similar cannabis projects. Since cannabis activity will require significantly less employees per square feet of building area than typical industrial activities, it is more appropriate to forecast the project traffic based on number of employees rather than based on building square footage of an industrial park.

ATTACHMENT B

RIVTAM DATA


LITTLE MORONGO RD
PIERSON BLVD
13TH AVE
TWO BUNCH PALMS TRL
4522
15TH AVE
Project Site
DILLON RD
DILLON RD
18TH AVE
18TH AVE

2012 (No - Project) - VMT

Area	Residential - VMT	EMP - VMT	POP	EMP	VMT/Res.	VMT/Emp.
Project	7,246	6,452	327	658	22.16	9.81
City Limit	394,450	35,549	26,380	3,601	12.89	9.19
County	33,957,456	8,469,881	2,245,248	616,716	15.12	13.73

Appendix J

Water Supply Assessment

Desert Hot Springs 109
Industrial Park
Water Supply Assessment and Verification

March 2020

Prepared For:

Mission Springs Water District

Prepared By:

TKE Engineering, Inc.
2305 Chicago Avenue
Riverside, CA 92507

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SECTION 1
INTRODUCTION

1.1 Regulatory Requirements

In 2002, California Water Code (CWC) Sections 10910 through 10915 were amended by the enactment of Senate Bill 610 (SB 610) to improve the link between information on water supply availability and certain land use decisions made by cities and counties. SB 610 provides that when a city or county determines that a "project" as defined in CWC Section 10912 is subject to review under the California Environmental Quality Act (CEQA), the city or county must identify the water supply agency that will provide retail water service to the project and request that water supplier to prepare a Water Supply Assessment (WSA).[1] The proposed Desert Hot Springs 109 Industrial Park Development Project (referred to herein as the "Project" or "DHS 109") includes 236,180 square feet of general light industrial uses, 761,770 square feet of industrial park for cannabis activity, and a 286,230 square feet power plant for a total of 1,284,180 square feet of industrial floor space; and thus qualifies as a "project" under SB 610. Generally, a WSA must evaluate whether the total projected water supplies available to the water supplier during normal, single dry, and multiple dry water years during a 20-year projection will meet the projected water demand associated with the proposed project, in addition to the water supplier's existing and planned future uses, including agricultural and manufacturing uses.

This WSA has been prepared in accordance with the requirements of SB 610. Accordingly, the information, analyses and conclusions contained herein utilize and rely upon, in part, the information, analyses and conclusions set forth in other water supply planning documents that have been prepared and duly adopted by agencies such as the City of Desert Hot Springs (City), the Mission Springs Water District (MSWD or District), and the California Department of Water Resources (DWR). Those documents include, without limitation, MSWD's 2015 Urban Water Management Plan (MSWD 2015 UWMP), the 2013 Mission Creek-Garnet Hill Water Management Plan (2013 MC-GH WMP), the 2018 Coachella Valley Integrated Regional Water

[1] For purposes of CWC Section 10912(a), a "project" includes any of the following: (1) a proposed residential development of more than 500 dwelling units; (2) a proposed shopping center or business establishment employing more than 1,000 persons or having more than 500,000 square feet of floor space; (3) a proposed commercial office building employing more than 1,000 persons or having more than 250,000 square feet of floor space; (4) a proposed hotel or motel, or both, having more than 500 rooms; (5) a proposed industrial, manufacturing, or processing plan, or industrial park planned to house more than 1,000 persons, occupying more than 40 acres of land, or having more than 650,000 square feet of floor area (provided; however, that until January 1, 2017, a photovoltaic or wind energy generation facility is not a "project" that requires a WSA if the facility would demand no more than 75 acre-feet of water annually); (6) a mixed-use project that includes one or more of the above-specified projects; or (7) a project that would demand an amount of water equivalent to, or greater than, the amount of water required by a 500 dwelling unit project.

Management and Stormwater Resource Plan (2018 IRWMP / SWRP), and DWR's 2017 State Water Project Final Delivery Capability Report (DWR 2017 Report).

1.2 Water Supplier

Mission Springs Water District (MSWD or District) is the public water supplier for the area in which the DHS 109 Project is located. The District was established in 1953 and was formerly known as Desert Hot Springs County Water District. The District's water service area consists of 135 square miles including the City of Desert Hot Springs, 10 smaller communities in Riverside County, and communities in the City of Palm Springs. The District's water supply source is 100 percent groundwater produced from District-owned and operated wells which provide water service to approximately 37,600 people in their water service area. The District also provides sewer service to approximately 26,000 people in Desert Hot Springs and surrounding communities.

MSWD currently receives 100 percent of its water supply from groundwater produced from subbasins within the Coachella Valley Groundwater Basin, which underlies the District's water service area. MSWD primarily produces groundwater from the Mission Creek Subbasin via nine (9) active wells. To a lesser extent, the District also produces groundwater from the Indio Subbasin via two (2) active wells, the Garnet Hill Subbasin via one (1) active well, and the San Gorgonio Pass Subbasin via two (2) active wells.

1.3 Purpose of Document

As mentioned above, this WSA is required under SB 610 because, among other features, the Project includes a proposed industrial, manufacturing, or processing plan, or industrial park planned having more than 650,000 square feet of floor area. Moreover, in accordance with SB 610 and applicable provisions of CEQA, the WSA will be included as part of the CEQA documentation being prepared for the Project. In the following sections, this WSA will evaluate whether the total projected water supplies available to the District during normal, single dry, and multiple dry water years during a 20-year projection will meet the projected water demand associated with DHS 109, in addition to the District's existing and planned future uses, including agricultural and manufacturing uses. Notably, the water demands associated with the DHS 109 Project have not been accounted for or are a part of the projected growth analyzed by District in its recent 2015 UWMP.

1.3.1 Water Supply Verification

SB 221 was enacted in January 2002 and amends Section 11010 of the Business and Professional Code, and Sections 66455.3, 66473.7 and 65867.6 of the Government Code. SB 221 establishes the relationship between the WSA prepared for a residential project and its approval under the Subdivision Map Act. Pursuant to California Government Code Section 66473.7, the District, the public water supplier for the Project, a majority of which is proposed as residential, must provide a written verification of sufficient water supply prior to the approval of a new subdivision.

A WSV is required prior to the approval of a tentative subdivision map, or a parcel map for which a tentative map was not required, or a proposed industrial, manufacturing, or processing plant, or industrial park planned to house more than 1,000 persons, occupying more than 40 acres of land, or having more than 650,000 square feet of floor area. The purpose of the WSV is to provide the city or county or redevelopment agency with written verification from the public water purveyor that a sufficient water supply is available, or will be available, prior to completion of the project. The Project includes a proposal for more than 650,000 square feet of industrial floor area, thus requiring a WSV as defined by the Government Code once a tentative map, parcel map, or subdivision map is established.

1.3.2 Validity of the Document

This WSA/WSV must be reviewed every five years or, in the event that water planning assumptions have changed, until the Project begins construction. The Project applicant shall notify MSWD when construction begins. Subsequent review will ensure that the information included in the WSA/WSV remains accurate and no significant changes to either the Project or MSWD's water supply have occurred. If neither the Project applicant nor the lead agency (City of Desert Hot Springs) contacts MSWD within five years of approval of this WSA/WSV, it will be assumed that the Project no longer exists, and the WAS/WSV provided by this document will become invalid.

1.4 Existing Water Management Plans

In accordance with Water Code Section 19010(c)(1), the District has reviewed whether the projected water demand associated with the Project was included as part of the District's most recently adopted 2015 Urban Water Management Plan. MSWD's 2015 UWMP did not specifically reflect the demands associated with the DHS 109 development. However, the demands associated with the Project have been accounted for as part of MSWD's 2015 UWMP, which specifically include population projections (and associated growth) within MSWD's service areas through the year

2040 in accordance with the Southern California Association of Government (SCAG) Regional Transportation Plan (RTP) 2016 projects.[2] In addition, the demands associated with the Project have also been accounted for in MSWD's, DWA's, and CVWD's regional water supply planning efforts, which specifically include population projections within MSWD's and CVWD's service areas in the Mission Creek and Garnet Hill subbasins through the year 2045 in accordance with the Riverside County Center for Demographic Research RCP-10 growth forecast.[3] Therefore, and as set forth herein, the projected water demands of DHS 109 have already been considered in preparing and adopting both the MSWD 2015 UWMP and the 2013 MC-GH WMP. These documents are described in more detail in the following sections.

1.4.1 MSWD 2015 Urban Water Management Plan

As indicated above, the District has completed its 2015 UWMP. Water Code Section 10910(c)(2) provides that if demand associated with a proposed project is accounted for in the most recently adopted UWMP, the water supplier may incorporate information from the UWMP in preparing certain elements of a WSA for the project.

Water conservation efforts are allowing water agencies to plan for growth in new and improved ways, where State law now requires water agencies to do more with less. SBx7-7 (sometimes referred to as the new "20 percent by 2020" law) is one of four policy bills enacted as part of the November 2009 Comprehensive Water Package (see California Water Code section 10608 et seq.). Among other things, SBx7-7 established the goal of achieving a 20 percent reduction in statewide urban per capita water use by the year 2020, and the interim goal of achieving a 10 percent reduction by 2015. In an effort to achieve those goals, SBx7-7 requires each urban retail water supplier to determine technical information, such as existing baseline water consumption, to establish future water use reduction targets (in gallons per capita per day (gpcd)), and to report that and other information in their UWMPs. SBx7-7 also requires each urban wholesale water supplier to include in its UWMP an assessment of its present and proposed future measures, programs, and policies to help achieve the water use reductions required by SBx7-7.

The two primary calculations required by SBx7-7 are (1) the Base Daily Per Capita Water Use Calculation (average gpcd used in past years), and (2) Compliance Water Use Targets (targets for gpcd in 2015 and 2020). The Base Daily Per Capita Water Use Calculation is based on gross water use by an agency in each year and can be based on a ten-year average ending no earlier than 2004 and no later than 2010, or a 15 year average if ten percent of 2008 demand was met by recycled water. The

[2] See MSWD 2015 UWMP, pp. 3-7 to 3-9
[3] See 2013 Mission Creek-Garnet Hill Water Management Plan, pp. 2-10 to 2-13

District does not currently produce or receive recycled water supply, and therefore, a 10 year baseline period is used as opposed to a 15 year baseline period. As indicated above, an urban retail water supplier must then set a 2020 water use target and a 2015 interim water use target in terms of gpcd. SBx7-7 establishes four alternative methods for water agencies to use in calculating their Compliance Water Use Targets, as follows: (1) 80 percent of Base Daily Per Capita Use; (2) adherence to specified performance standards; (3) 95 percent of the applicable state hydrologic region target as set forth in the State's 20x2020 Water Conservation Plan; or (4) the provisional target method and procedures developed by DWR pursuant to SBx7-7.

In accordance with SBx7-7, the District will strictly manage its per capita water use throughout the year 2020 and beyond. As set forth in Section 3, the District's actual baseline daily per capita water use was calculated as 172.1 gpcd. The 2015 and 2020 targets were established as 262.3 gpcd and 234.9 gpcd respectively, which confirm that the District achieved its targeted reduction by the year 2015.

There are several water supply planning ideas, future projects and management activities detailed in the District's 2015 UWMP that will help meet the 20 percent reduction in per capita water consumption under SBx7-7. For example, the District has begun the planning process to construct the West Valley Water Reclamation Facility (WVWRF) that will include tertiary treatment facilities in the future. The plan is to have the plant in operation by 2022. It is estimated that the future first phase of tertiary treatment will accommodate a recycled water demand of 1.0 mgd (1,120 AFY). The District plans to expand the recycled water system demand to 6,400 AFY by 2040 by expanding the plant. In order to help put the recycled water system into practice, the District prepared a Recycled Water Program Development Feasibility Study in March 2018 in which treatment and distribution alternatives and recycled water demands were identified. The study determined that the recycled water infrastructure could feasibly be implemented to supply existing and future irrigation demands and offset a portion of potable water demands. Recycled water can also be used for groundwater aquifer replenishment. The District's 2015 UWMP also details desalination efforts considered by the Coachella Valley IRWMP. These efforts include the CVWD Agricultural Drain Water Desalination Project where the CVWD is evaluating the development of up to 85,000 AFY of desalinated drain water by 2045 in efforts to help increase water supply and reliability during drought periods.

The District universally acknowledges and embraces the importance of water issues, and as such is managing several cost-effective demand management measures (DMMs). These DMMs include technologies and methodologies that have been sufficiently documented in multiple demonstration projects and result in more efficient water use and conservation (e.g., water use surveys/audits, rebates or giveaways of plumbing fixtures, rebate programs that include turf conversion, smart

timer rebates and high efficiency toilet rebates, leak detection and monitoring program, rebates for landscape irrigation efficiency, and public information and school education programs).

The District has adopted a landscape irrigation policy as part of the District's "Landscape Guidelines". The guidelines establish effective water efficient landscape requirements for newly installed and rehabilitated landscapes, as well as promote water conservation through climate appropriate plant material and efficient irrigation practices. In addition, the guidelines also require an irrigation design plan, which includes the installation of separate landscape water meters for all projects except for single-family homes or any project with a landscaped area of less than 2,500 square feet. Automatic control systems are required for each system and mechanical irrigation controllers are prohibited.

Furthermore, the District understands the need to investigate future water projects to meet demands associated with projected growth. As indicated above and as further discussed in this analysis, the District is evaluating and will continue to evaluate various source substitution projects to reduce overall demands on native groundwater.

1.4.2 2013 Mission Creek/Garnet Hill Water Management Plan

Water supply is critical to civilization especially in a desert region. The Mission Creek and Garnet Hill subbasins are located in the northern portion of the Coachella Valley and are part of the larger Coachella Valley Groundwater Basin in Riverside County, California. These subbasins are located within the northwestern portion of the hot, arid Colorado Desert sub-region of the Sonoran Desert. The Mission Creek and Garnet Hill Subbasins have been important sources of potable water supply to the City of Desert Hot Springs and surrounding communities. Since the 1940s, the Desert Hot Springs region has been known as a tourist destination with its small spa hotels supplied by hot mineral water from the Desert Hot Springs Subbasin. The Mission Creek and Garnet Hill Subbasins have been the primary potable water source to the area since that time.[4]

Continued pumping of the groundwater from the Coachella Valley in excess of natural recharge resulted in steadily declining groundwater levels since the 1950s. To control this water level decline, the Coachella Valley Water District (CVWD) and Desert Water Agency (DWA) with the support of the Mission Springs Water District (MSWD) embarked on a groundwater replenishment program in 2002 using imported water. Additional water management activities have been implemented since that time. The

[4] 2013 MC-GH WMP, p. 1-1.

purpose of this Water Management Plan is to describe existing water management programs, evaluate potential alternative management strategies and recommend additional programs with the goal of ensuring that water resources of these subbasins are sustained and protected in the future.[5]

The Mission Statement for the plan states that "the purpose of the Mission Creek and Garnet Hill Water Management Plan is to manage the water resources to meet demands reliably and protect water quality in a sustainable and cost-effective manner". In order to meet the overall goals of the WMP, as described in the Mission Statement, the following management objectives for the Mission Creek and Garnet Hill subbasins were developed:[6]

- Meet current and future water demands with a 10 percent supply buffer – This objective will be fully implemented by 2020.
- Eliminate long-term groundwater overdraft – This objective will be implemented by maintaining 2009 groundwater levels to the extent practicable based on water supply availability by 2015.
- Manage and protect water quality
- Minimize adverse environmental impacts
- Comply with state and federal laws and regulations
- Manage future costs

The water management objectives work together to provide improved supply reliability throughout the 2013 MC-GH WMP Planning Area, including a majority of MSWD's service area and the proposed DHS 109 Project.

The 2013 MC-GH WMP also presented a Management Plan to meet the objectives set forth by above. Key components of the Management Plan include measures for reducing demand, managing water supply sources, eliminating overdraft by maintaining groundwater levels on a long-term basis, protecting water quality, managing wastewater through septic conversions, and developing a recycled water system for the Planning Area. In addition, the Management Plan includes recommendations for monitoring and reporting to facilitate data sharing and coordination between CVWD, DWA and MSWD, stakeholder involvement through an advisory committee comprised of staff from CVWD, DWA and MSWD, and financial and implementation guidelines needed to actualize the proposed projects for the Planning Area.[7]

[5] 2013 MC-GH WMP, p. 1-1.
[6] 2013 MC-GH WMP, p. 6-1.
[7] 2013 MC-GH WMP, p. 7-1.

CVWD, DWA and MSWD developed the MC-GH WMP with the goal of managing the water resources to meet demands reliably while protecting water quality in a sustainable and cost-effective manner. The plan recognizes that continued recharge, development or acquisition of additional water supplies, protection of water quality through wastewater management and other tools, monitoring and data management and continuous communication are vital for the cost-effective management of the water resources of the Planning Area.[8]

[8] 2013 MC-GH WMP, p. 7-28.

SECTION 2
DHS 109 DEVELOPMENT

2.1 Project Description

The proposed DHS 109 Industrial Park Development Project will accommodate a combination of general light industrial, cannabis activity (cultivation, manufacturing, distribution, etc.), and large-scale energy / utility facilities, basins, landscaping and roadways on approximately 110 acres. This includes 236,180 square feet of general light industrial uses, 761,770 square feet of industrial park for cannabis activity, a 286,230 square foot power plant, together with basins, landscaping and parking lots and onsite roadways for a total of 4,799,908 square feet or 110 acres. The District will serve as the public water system for this development. **Figure 2-1** shows the general project location within the City of Desert Hot Springs.

2.2 Project Land Use Summary

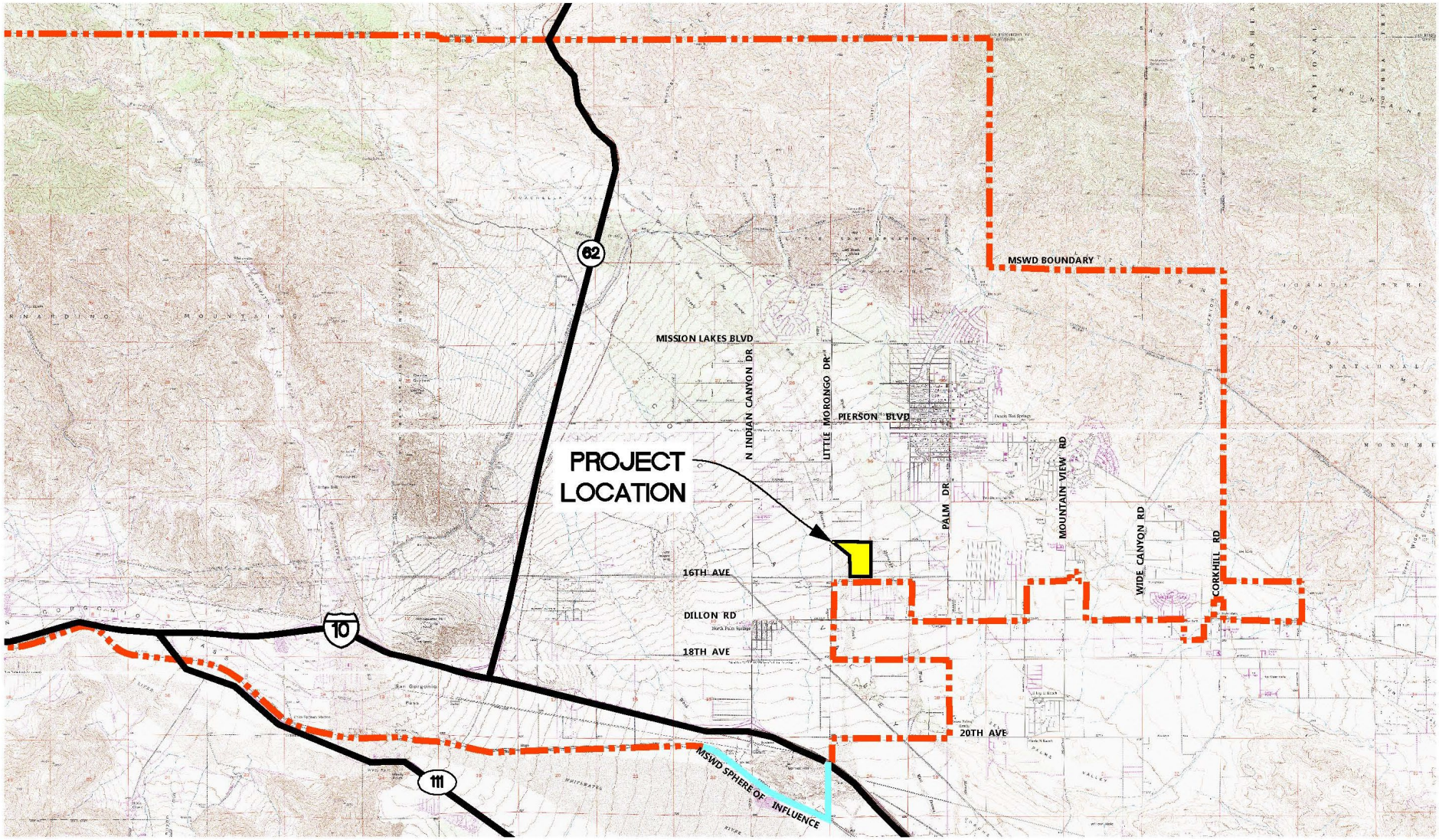
The DHS 109 Project is intended to be an industrial park that will accommodate a combination of general light industrial, cannabis cultivation, cannabis manufacturing, cannabis distribution, and large-scale energy / utility facilities within the City of Desert Hot Springs. The project land currently has a land use designation of Light Industrial (I-L) per the City of Desert Hot Springs General Plan Land Use and Zoning Designations. Based on the County of Riverside's 2019 General Plan Land Use Designations, **Table 2-1** details the proposed land use designations for the DHS 109 development.

Table 2-1
Proposed DHS 109 Land Use Designation

Facilities	Land Use Designation	Area (square feet)	Area (acres)
Industrial Park (Cannabis Activity)	Light Industrial (LI)	761,770	17.49
General Light Industrial	Light Industrial (LI)	236,180	5.42
Basins	-	247,856	5.69
Landscaping	-	1,117,750	25.66
Power Plant	Light Industrial (LI)	286,230	6.57
Parking Lots / Onsite Roadways / Architectural Coatings	-	2,150,122	49.36
	Total	**4,799,908**	**110.19**

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Figure 2-1
General Project Location



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2.3 Project Water Demand

As described, the DHS 109 Project is a combination these water demand facilities: general light industrial, an industrial park for cannabis activity, landscaping and a power plant. The water demands were separated and calculated into two separate categories: light industrial areas and landscaping areas. The light industrial areas include the general light industrial, the industrial park for cannabis activity and the power plant. These areas included a subtotal water demand, an expected reclaimed water demand, and total water demand. The expected reclaimed water demands are attributed to reclaimed cultivation drain to waste for the cannabis cultivation activities and reclaimed condensate from power plant cooling. They are deducted from the subtotal water demand to produce the total water demand.

Additionally, landscape consumption factors were developed using MSWD's Water Efficient Landscaping Guidelines. The guidelines set forth the Maximum Annual Applied Water Allowance (MAAWA) for landscaping. Using a combination of the total landscaped area, reference evapotranspiration in the area, and an evapotranspiration adjustment factor, the landscape consumption was determined. The following **Table 2-2** summarizes the light industrial area water demands and **Table 2-3** summarizes the landscape water demands for the DHS 109 Project, using the methods described above.

Table 2-2
DHS 109 Light Industrial Water Demands

Facilities	Land Use Designation	Area		Demand Factor	Subtotal Water Demand	Return Flow Factor	Expected Return Flow	Total Water Demand
		Square Feet	Acres	AFY/ Acre	AFY	AFY/ Acre	AFY	AFY
Industrial Park (Cannabis Activity)	Light Industrial (LI)	761,770	17.49	27.90	487.90	22.41	391.92	95.98
General Light Industrial	Light Industrial (LI)	236,180	5.42	45.39	246.10	0.00	0.00	246.10
Power Plant	Light Industrial (LI)	286,230	6.57	174.33	1,145.53	137.53	677.77	467.76
Total		**1,284,180**	**29.48**	**-**	**1,879.53**	**-**	**1,069.69**	**809.85**

Table 2-3
DHS 109 Landscape Water Demands

Facility	Area (acres)	Eto (in/yr)	ET Adjustment Factor	Landscaped Area (sq ft)	Conversion Factor (to gallons per sq ft)	MAAWA (gal/yr)	MAAWA (AFY)
Landscape	25.66	93.9	0.5	1,117,750	0.62	32,536,573	**99.86**

The DHS 109 Project has an expected total water demand of approximately 910 AFY. In 2009 the Senate Bill x7-7 was enacted requiring all water suppliers to increase water use efficiency. MSWD has developed consumption factors based on their 2015 UWMP, after the enactment of SBx7-7. While the demands included herein were provided by the DHS 109 engineer, they are consistent with MSWD and other Coachella Valley consumption factors that reflect the statewide goal to achieve a 20 percent reduction of per capita water use by the year 2020.

2.4 Water Conservation Measures

New developments are required to follow and implement the water conservation measures and efficient water use goals outlined in several of MSWD and County of Riverside planning documents.

In 2007, the County of Riverside adopted Ordinance 859.2, The Water Efficient Landscape Requirements. This Ordinance is an effort to implement, manage and maintain water efficient landscapes without a decline in landscape quality or quantity to all new and rehabilitated landscapes associated with residential uses. Furthermore, this Ordinance was adopted to implement the requirements of the California Water Conservation in Landscaping Act 2006 and the California Code of Regulations Title 23, Division 2, Chapter 2.7. The following are some of the requirements applicable to the DHS 109 Project:

- All planting areas shall receive three inches (3”) of shredded bark mulch and one and a half inches (1-1/2”) on ground cover from flats.
- Turf areas shall be used in response to functional needs and in compliance with the water budget.
- Where available, recycled water shall be used as the source for irrigation and decorative water features.
- Stabilizing mulching products shall be used on slopes. Irrigation systems shall be designed, maintained and managed to meet or exceed an average irrigation efficiency of 0.71.
- All irrigation systems shall be designed to prevent runoff, overspray, low head drainage and other similar conditions where water flows off-site on to adjacent property, non-irrigated areas, walk, roadways, or structures.
- All irrigation systems shall be equipped with a small irrigation controller, a rain sensing device, anti-drain check valves, a manual shut off valve, a pressure regulator, backflow prevention device, and riser protection components
- Water systems for common open space areas shall use non-potable water, if approved facilities are made available by the water purveyor.

The project will follow both County and local water conservation and planting measures. In addition, the project will implement native desert landscaping throughout park and landscape areas.

SECTION 3
WATER DEMANDS

3.1 General Water System Information

3.1.1 Service Area Description

The District, established in 1953, consists of approximately 135 square miles, including the City of Desert Hot Springs, 10 smaller communities in Riverside County and communities in the City of Palm Springs. The District provides water service to approximately 39,800 people and sewer service to approximately 27,500 people in their service area. MSWD offices are located in Desert Hot Springs, California.[9]

The District has three different water supply and distributions systems, the Desert Hot Springs System, the Palm Springs Crest System, and the West Palm Springs Village System. The Desert Hot Springs System is the largest of the three and is where the proposed DHS 109 Development is located. The Palm Springs Crest System and the West Palm Springs Village Systems are located 5 miles from the Desert Hot Springs system and abutting the Morongo Indian Hill Reservation. **Figure 3-1** shows MSWD's service area and sphere of influence.[10]

MSWD currently receives 100 percent of its water supply from groundwater wells supplied by the several subbasins within the Coachella Valley Groundwater Basin. The District mainly produces water from the Mission Creek Subbasin and the Garnet Hill Subbasin.

3.1.2 Facilities

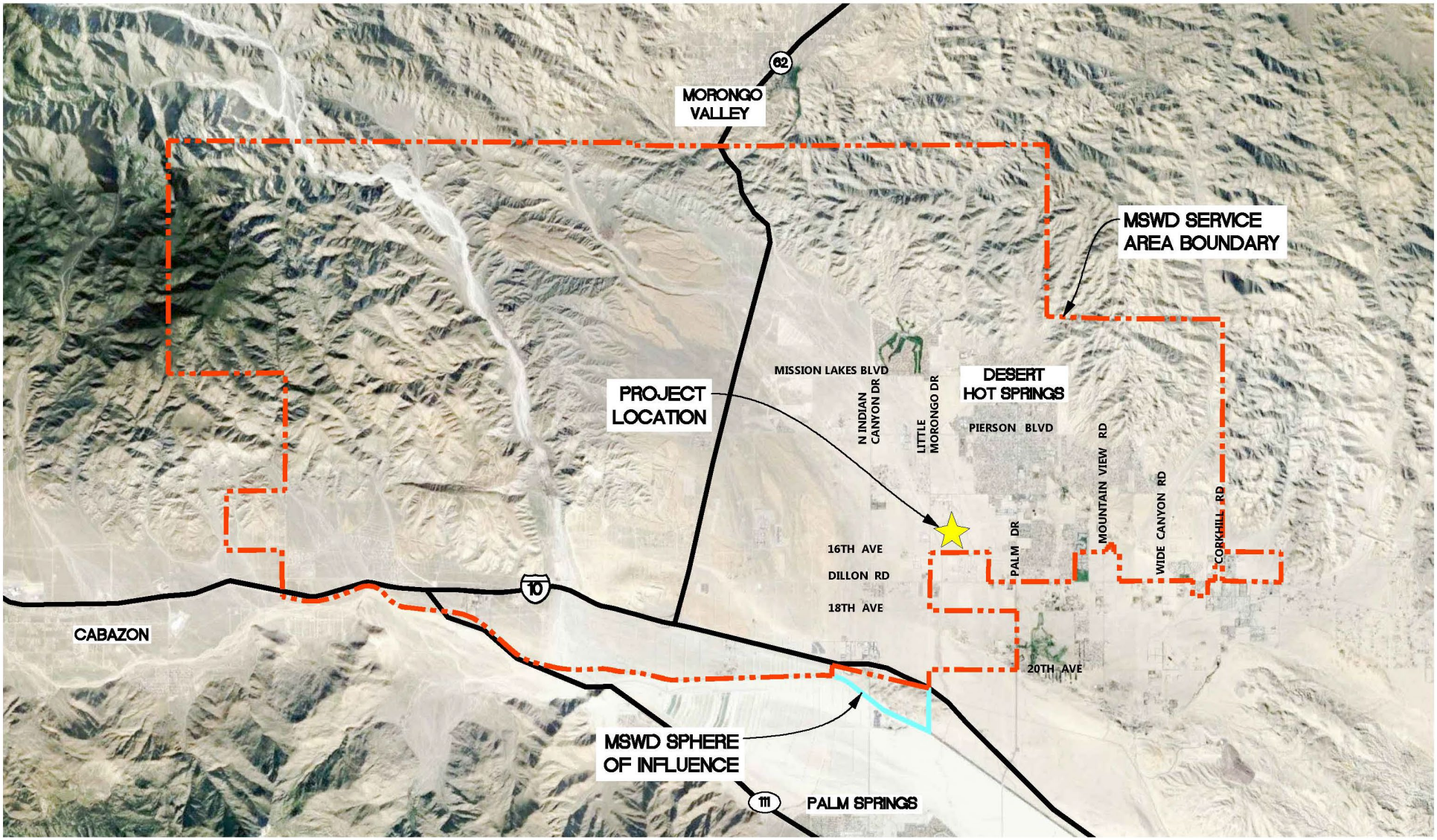
The District, inclusive of all three distribution systems, has approximately 1.26 million linear feet of distribution pipeline ranging in sizes.

As previously mentioned, 100 percent of the water produced is supplied by the Coachella Valley Groundwater Basin. The Desert Hot Springs System has nine active wells, Well Nos. 22, 24, 27, 28, 29, 31, 32, 34 and 37 and one inactive well, Well No. 30. The nine active wells and the inactive well produce water from the Mission Creek Subbasin. Well No. 33 produces water from the Garnet Hill Subbasin. The nine active wells have a production capacity of 12,600 gpm. Well No. 28 and Well No. 34 have wellhead uranium treatment facilities.

[9] 2015 MSWD Urban Water Management Plan, Section 3.
[10] 2015 MSWD Urban Water Management Plan, Section 3.

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Figure 3-1
MSWD Service Area and Sphere of Influence



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3.1.3 Climate

The District's climate is a desert climate with a large range of high and low temperatures. The area has low rainfall and humidity and has an average of 5.5 inches of rainfall per year. The average high month temperature is 108.2 degrees Fahrenheit occurring in July and the average low month temperature of 42.2 degrees Fahrenheit occurring in December and January. **Table 3.1** shows the historic average monthly evapotranspiration, rainfall and temperatures for the District.

Table 3-1
Historical District Climate Characteristics

Month	Standard Average Eto (inches)	Average Rainfall (inches)	Daily Max Temperature (degrees F)	Daily Min Temperature (degrees F)
January	2.98	1.13	69.6	42.3
February	3.53	1.00	73.7	45.6
March	6.25	0.58	79.3	48.8
April	8.39	0.18	86.7	54.1
May	10.55	0.05	94.5	60.4
June	10.95	0.05	103.0	67.0
July	10.78	0.20	108.2	75.2
August	9.66	0.27	106.8	74.3
September	8.25	0.29	101.7	68.1
October	5.85	0.29	91.4	59.4
November	3.63	0.42	78.7	49.2
December	2.62	1.01	69.8	42.3
Annual (Total or Average):	**83.44**	**5.47**	**88.6**	**57.2**

3.1.4 Service Area Population

The majority of the District's service area population resides in the City of Desert Hot Springs. The City of Desert Hot Springs makes up approximately 17 percent of the District's water service area, 23 square miles. Population current and future estimates were gathered from MSWD's 2015 UWMP. MSWD's 2015 UWMP utilized the DWR Population Tool to estimate the 2015 population based on water service connections. A 2015 District water service area population of 37,614 was estimated. With an estimated City of Desert Hot Springs population of 28,134, the City makes up approximately 74.8 percent of MSWD's total water service area population. However, 2019 population estimate is 33,056.

Future population growth was estimated using the MSWD 2009 Comprehensive Water System Master Plan growth scenarios and applying it to the 2015 water service area population results every five years. **Table 3-2** shows the current and projected water service area population for the City of Desert Hot Springs and population outside the City.

Table 3-2
Current and Projected Population

Service Area Population	2015	2019	2020	2025	2030	2035	2040	Increase
City of Hot Desert Springs	28,134	30,056	34,287	40,440	46,593	52,746	58,900	109.4%
Outside City of Hot Desert Springs	9,480	9,758	9,827	10,174	10,521	10,686	11,214	18.3%
Total:	**37,614**	**42,814**	**44,114**	**50,614**	**57,114**	**63,432**	**70,114**	**86.4%**

3.2 Water Demands

3.2.1 District Past and Current Water Use

The District experienced steady service area population growth since 2005. As a result, the District as also had a steady growth in metered connections. As previously mentioned, the District's service area population will continue to increase over time and it is expected that the number of metered accounts will also increase. It should be noted that water deliveries and the number of metered accounts does not directly reflect the District's service area population. The main factor in the growth of water deliveries and in the number of metered accounts are the types of developments that were built and will be built. **Table 3-3** details the historical water service connections by customer sector.

Table 3-3
Historical Water Service Connections

Customer Sector	2005	2010	2015	2019
Single Family	10,053	11,463	11,625	11,790
Multi Family	670	705	709	719
Commercial	403	325	356	355
Other (Billed Institutional, Industrial, Irrigation)	168	254	277	304
Total:	**11,294**	**12,747**	**12,967**	**13,168**

3.2.2 District Water Demand Projections

MSWD currently does not have any recycled water use within its service area. However, according to the 2015 UWMP, there are plans to use recycled water for the irrigation of golf courses, parks, medians and greenbelts, and groundwater aquifer recharge in the future. In addition, the District is constructing the West Valley Water Reclamation Facility and plan to have the plant in running by 2022. The proposed treatment plant has been designed to accommodate tertiary treatment is a subsequent phase. It is estimated that the future initial recycled water demand will be 1.0 mgd (1,120 AFY).

The demand for potable water is expected to increase as service area population increase within time. **Table 3-4** and **Table 3-5** list the projected demands for potable, recycled and total water demands for the future years.

Table 3-4
Demands for Potable Water Projected

Use Type	2020	2025	2030	2035	2040
Single Family	4,688	5,266	5,844	6,422	7,000
Multi Family	1,479	1,661	1,843	2,025	2,208
Commercial	504	566	628	690	752
Other (Billed Institutional, Industrial, Irrigation)	1,189	1,335	1,482	1,628	1,775
Losses	570	641	711	781	851
Total:	**8,430**	**9,469**	**10,508**	**11,546**	**12,586**

Table 3-5
Total Water Demands

Type	2015	2020	2025	2030	2035	2040
Potable Water Demand	7,252	8,430	9,469	10,508	11,547	12,586
Recycled Water Demand	0	1,120	2,200	3,600	5,000	6,400
Total:	**7,252**	**9,550**	**11,669**	**14,108**	**16,547**	**18,986**

Both recycled and potable projected demands were obtained from MSWD's 2015 UWMP. However, a more precise future per-capita water use will occur within the District for new residential developments due to California's newly adopted Green Building Code. The Green Building Code cuts indoor water consumption by 20 percent by more efficient water fixtures. **Table 3-6** shows the future per-capita water use for projected water demands.

Table 3-6
Projected District Water Demands

	2015	2020	2025	2030	2035	2040
Existing Households						
Population	37,614	37,614	37,614	37,614	37,614	37,614
Total Per-Capita Water Use (gpcd)	172.1	173.5	171.3	169.0	166.8	164.5
Water Use (AFY)	7,252	7,312	7,217	7,211	7,028	6,933
New Households						
Population	0	6,500	13,000	19,500	26,000	32,500
Total Per-Capita Water Use (gpcd)	0	156.0	156.0	156.0	156.0	156.0
Water Use (AFY)	0	1,136	2,272	3,408	4,545	5,681
Total Water Use (AFY):	**7,252**	**8,430**	**9,469**	**10,508**	**11,547**	**12,586**
Total Per-Capita Water Use (gpcd):	**172.1**	**170.9**	**167.3**	**164.6**	**162.4**	**160.6**

Total per-capita water use is estimated to decrease from 172.1 gpcd in 2015 to 160.6 gpcd in 2040. From 2020 through 2040, projections are based on normal, non-drought years.

3.3 Water Use Reduction Plan

The District has made the State-mandated DMMs a key element in the overall water resource management strategy. The District is dedicated to implementing water conservation measures as demonstrated in adopting a Water Conservation Master Plan in 2004 (2004 WCMP). A series of sensible water conservation activities that complement the unique water resource characteristics of the District's service area are outlines in the 2004 WCMP. The Plan represents a qualitative effort at identifying and screening potential conservation initiatives appropriate for implementation in the District's service area. The data will assist the District in determining which initiatives should be continued to meet long-term conservation objectives.[11]

As part of the 2004 WCMP, the District identified factors affecting water conservation within the District. Significant factors are impacting water use within the District and include the following:

- Limited availability of water as a resource in Coachella Valley;
- the District's 100 percent dependency on groundwater as a water source;

[11] MSWD 2015 UWMP, p. 9-1.

- lack of other potable water sources and limited emergency interconnections;
- assessments to DWA for future imported water supply; lack of sufficient reservoir storage for water shortages and emergencies;
- continued new residential development in the City of Desert Hot Springs;
- risk of future degradation of groundwater supplies from septic systems, and commercial and industrial development;
- the need to implement costly new sources of water (reclamation/ conjunctive use, etc.).[12]

The water conservation principles identified in the District's Water Conservation Master Plan were outlined and include detailed tasks. Overall, the District aims to employ the following principles:

- Clarify and summarize the District's conservation programs, reflecting conservation commitments made through the UWMP and other programs.
- Ensure that the conservation measures adopted by the District treat all customers fairly and equitably.
- Do not create undue pressure on revenue stability resulting in water costs exceeding local socio-economic conditions.
- Identify and establish measurable conservation targets to be accomplished by the District within a reasonable period of time.
- Develop sensible approaches for practical, cost-effective and efficient conservation programs which anticipate and serve the long-term needs of District customers.
- Facilitate the District's ability to provide a dependable, reliable supply of water.[13]

The District also developed a conceptual framework for the proposed conservation planning process throughout the service area. Four phases are envisioned as part of the process, including the formulation of conservation principles, program refinement, program implementation and program evaluation. The Plan's Conservation Action Plan seeks to implement the conceptual framework in a "dual approach," whereby regulatory and management practices are jointly utilized. In the Conservation Action Plan, the process for establishing measurable conservation targets is discussed. Three distinct components for the process are identified as the following:

- establishment of measurable targets,
- identifying worthwhile conservation measures, and

[12] MSWD 2015 UWMP, p. 9-1.
[13] MSWD 2015 UWMP, pp. 9-1 to 9-2.

- evaluating the effects of conservation activities and attainment of goals[14]

For additional information on the District's implementation of the demand management and water conservation measures, see their 2015 UWMP Chapter 9.

[14] MSWD 2015 UWMP, p. 9-2.

SECTION 4
WATER SUPPLY ASSESSMENT

4.1 General

The Coachella Valley relies on a combination of local groundwater, Colorado River (CR) water, State Water Project (SWP) water, surface water, and recycled water to meet demand. MSWD produces all of its water supplies from the Upper Coachella Valley Groundwater Basin; more specifically, the Mission Creek, Indio, Garnet Hill, and San Gorgonio Pass Subbasins. According to MSWD's 2015 UWMP, CVWD and DWA are remediating the overdraft condition of the groundwater basin by artificial replenishment with imported Colorado River and State Water Project (SWP) Exchange Water in the Indio and Mission Creek subbasins.

The following section identifies and describes the water supply sources that will serve the DHS 109 Project. Additionally, in accordance with State Water Code Section 10910(d), this section will identify existing water supply amounts, water rights, or water service contracts relevant to the identified water supply for the proposed Project. As previously described, MSWD's 2015 UWMP and the 2013 MC-GH WMP apply to the DHS 109 Project. According to MSWD's 2015 UWMP, the aquifer and other sources of supply are adequate for a single dry year and also for multiple dry years for a 20-year period.[15]

4.2 Identification of Water Sources

4.2.1 Primary Water Sources

As described above, MSWD currently receives 100 percent of its municipal water supply from groundwater produced from subbasins within the Coachella Valley Groundwater Basin, which underlies the District's water service area. The Coachella Valley Groundwater Basin in not adjudicated. As such, there are no legal agreements that limit MSWD from producing groundwater from any of the subbasins. As indicated herein, substantial regional efforts are ongoing, led by CVWD and DWA, to manage and recharge the Mission Creek Subbasin and Indio Subbasin with imported water and other supplies to ensure adequate water supplies are sustained and protected in the future. Those efforts are made possible in large part because CVWD and DWA are Metropolitan State Water Project (SWP) contractors. Therefore, the DHS 109 Project will rely on groundwater as its primary water supply source, more specifically the Mission Creek Subbasin.

[15] MSWD 2015 UWMP, pp. 7-20 to 7-22

4.2.2 Additional Water Sources

While groundwater from the Mission Creek Subbasin will be the sole source of water for the project, additional water sources related to the project include surface water that naturally replenished the groundwater basin and imported water to recharge groundwater supplies.

4.3 Analysis of Water Supply

4.3.1 Groundwater

As described above, MSWD currently receives 100 percent of its water supply from groundwater produced from subbasins within the Coachella Valley Groundwater Basin, which underlies the District's water service area. MSWD primarily produces groundwater from the Mission Creek Subbasin through nine (9) active groundwater wells. In addition, MSWD also produces groundwater from the Indio Subbasin via two (2) active wells, the Garnet Hill Subbasin through one (1) active well, and the San Gorgonio Pass Subbasin through two (2) active wells.

The Coachella Valley Groundwater Basin is bounded on the north and east by non-water bearing crystalline rocks of the San Bernardino and Little San Bernardino Mountains and on the south and west by the crystalline rocks of the Santa Rosa and San Jacinto Mountains. At the west end of the San Gorgonio Pass, between Beaumont and Banning, the basin boundary is defined by a surface drainage divide separating the Coachella Valley Groundwater Basin from the Beaumont Groundwater Basin of the Upper Santa Ana drainage area.[16]

While groundwater flows throughout the groundwater basin, several features (i.e. fault lines, constrictions in the basin profile, and changed soil conditions) limit and control its movement. As such, several subareas and subbasins have been identified and defined by CDWR in 1964 and the United States Geological Survey (USGS) in 1971.[17]

The Coachella Valley subbasins are the: Mission Creek, Desert Hot Springs, Garnet Hill, San Gorgonio Pass, and Indio subbasins. The Indio subbasin is sometimes referred to as the Whitewater subbasin. The subbasins all have varying water quality and quantity, and serve as groundwater storage reservoirs. Municipal and Private wells are used to produce water from the natural reservoirs. MSWD's water service area and underlying subbasins are shown on **Figure 4-1**. MSWD produces

[16] MSWD 2015 UWMP, p. 6-5
[17] MSWD 2015 UWMP, p. 6-6

groundwater from the Mission Creek, Garnet Hill, Indio, and the San Gorgonio Pass Subbasins; described in greater detail in the following sections.

Of note, the Coachella Valley Groundwater Basin in not adjudicated and there are no legal agreements that limit MSWD from producing groundwater from any of the subbasins. CVWD and DWA continually recharge the Mission Creek Subbasin and Indio Subbasin with imported water and other supplies. Both agencies are SWP contractors.

Starting in 1973, the Indio Subbasin has been replenished using SWP Exchange Water for groundwater recharge. CVWD and DWA have an agreement with Metropolitan to exchange (on an acre-foot-for-acre-foot basis) a percentage of their SWP Table A water rights for an equal amount of Metropolitan's Colorado River water for the purpose of recharging the Coachella Valley Groundwater Basin. A replenishment program using SWP Exchange Water was also established for the Mission Creek Subbasin with recharge commencing in 2003.[18]

4.3.1.1 Mission Creek Subbasin

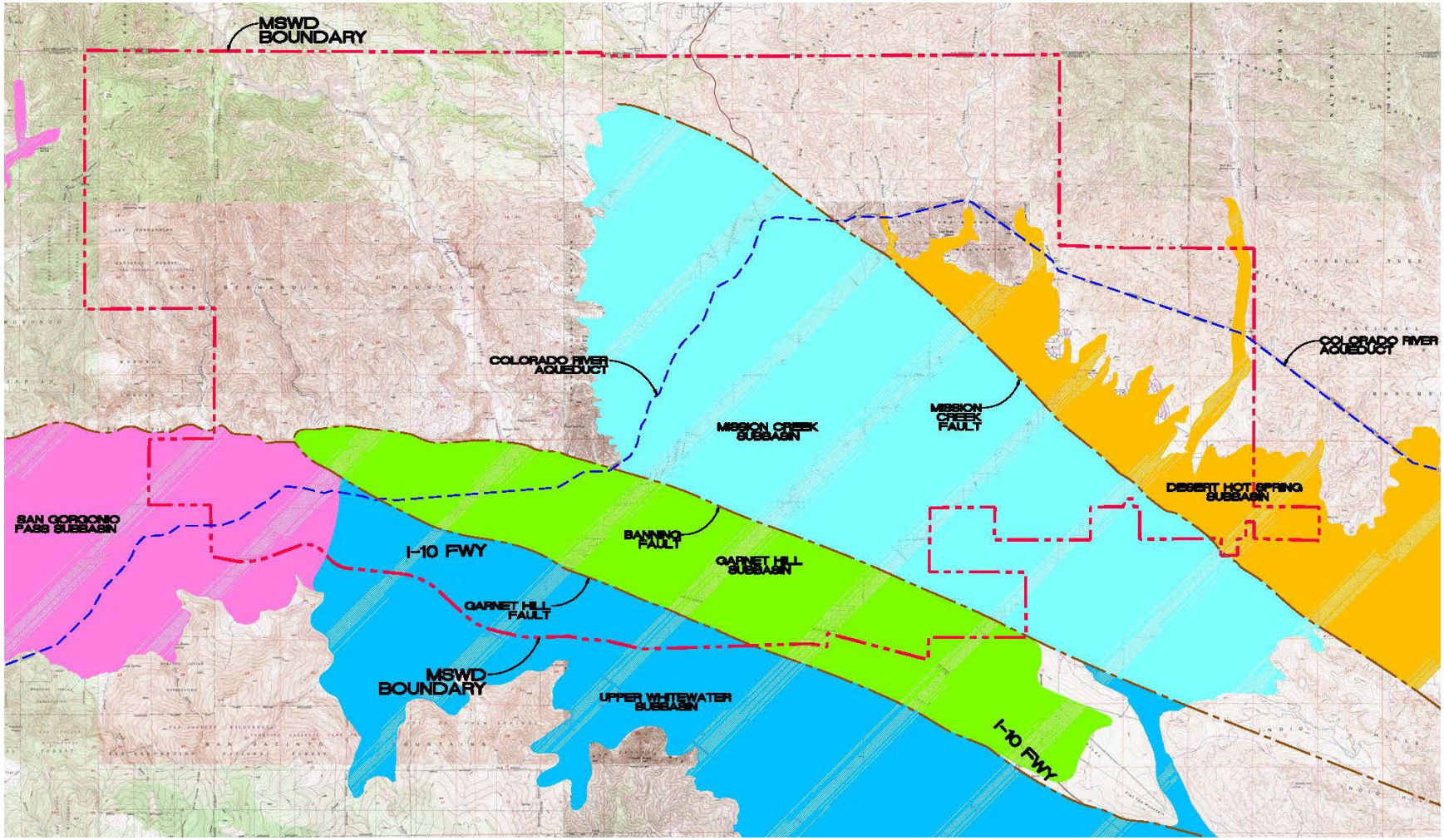
MSWD primarily produces groundwater from the Mission Creek Subbasin through nine (9) active groundwater wells. The Mission Creek Subbasin is located in the Upper Coachella Valley in the north central portion of Riverside County, California. The Mission Creek Fault and the Banning Fault bound the northeastern and southern edges of the subbasin, respectively, and are the major groundwater controls. Both act to limit groundwater movement as these faults have folded sedimentary deposits, displaced water-bearing deposits, and caused once permeable sediments to become impermeable (DWR, 1964).[19]

To the west, the subbasin is bounded by the San Bernardino Mountains and to the east by the Indio Hills and the Mission Creek Fault. Artesian conditions have historically been present near a narrow strip along the northwest portion of the Seven Palms Ridge (DWR, 1964), allowing for the development of a unique Willow-Mesquite biological community that includes phreatophytes. Depth to groundwater in other parts of the Subbasin averages 300 feet below ground surface. Major surface water features in the area are the Whitewater River, Mission Creek, San Gorgonio River, Little and Big Morongo Washes, and Long Canyon.[20]

[18] MSWD 2015 UWMP, p. 6-9
[19] MSWD 2015 UWMP, p. 6-9
[20] MSWD 2015 UWMP, p. 6-9

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Figure 4-1
MSWD Groundwater Basins



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The Mission Creek Subbasin is filled with Holocene and late Pleistocene unconsolidated sediments eroded from the San Bernardino and Little San Bernardino Mountains. There are three significant water-bearing sedimentary deposits recognized in the subbasin: Pleistocene Cabazon Fanglomerate and Pleistocene to Holocene Older alluvium and alluvial deposits. These deposits are generally coarse sand and gravel, poorly sorted alluvial fan and pediment deposits that coalesce with one another.[21]

The Mission Creek Subbasin is considered an unconfined aquifer with a saturated thickness of 1,200 feet or more and an estimated total storage capacity on the order of 2.6 million acre-feet (MAF). The subbasin is naturally recharged by surface and subsurface flow from the Mission Creek, Dry, and Big Morongo Washes, the Painted Hills, and surrounding mountain drainages. Irrigation return flow and discharges from municipal and individual subsurface wastewater disposal systems also contribute to recharge.[22]

Natural inflow has been supplemented with artificial recharge of imported water since 2003. In Water Year (WY) 2017-2018 total inflow to the Mission Creek Subbasin is estimated at 22,044 (afy) and includes 7,500 AFY from infiltration or natural runoff, 1,840 of subsurface inflows from adjacent basins and 7,895 AF of artificial recharge.[23] Additionally, non-consumptive return flow (2,010 AF of infiltration of applied irrigation water, 2,085 AFY of wastewater percolation, 714 AF of septic tank percolation) is estimated at 4,809 AF or approximately 22 percent of the total inflow budget.[24]

The primary outflow from the Mission Creek Subbasin is through groundwater production for domestic, agricultural and commercial use. Total groundwater production by MSWD, CVWD, and other privately-owned wells together averaged approximately 2,000 AFY in the 1970s; increased to over 17,000 AFY in 2006; and has since decreased to 14,573 in WY 2017-2018.[25] Additionally, natural outflow include underflow to the Garnet Hill Subbasin and to semi-water-bearing rocks in southeastern portion of basin of 5,100 AF, evapotranspiration of 900 AF, and evaporative losses of 220 AF for a total of 6,220 AF.

The WY 2017-2018 water balance in Mission Creek Subbasin is shown in **Table 4-1**. The annual water balance is the total inflow less the total outflow, which is estimated at a surplus of 1,251 AF of water storage (approximately 0.03 percent of storage capacity) in the subbasin in WY 2017-2018.

[21] MSWD 2015 UWMP, p. 6-10
[22] MSWD 2015 UWMP, p. 6-10
[23] Mission Creek Subbasin Annual Report for Water Year 2017-2018, p. 7-5, Table 7-3.
[24] Mission Creek Subbasin Annual Report for Water Year 2017-2018, p. 7-2.
[25] Mission Creek Subbasin Annual Report for Water Year 2017-2018, p. 7-5, Table 7-3.

Table 4-1
WY 2017-2018 Water Balance in Mission Creek Subbasin

Basin Inflow and Outflow Component	Flow (AFY)
Inflow	
Subsurface Inflows From Adjacent Basins	1,840
Non-Consumptive Return	4,809
Infiltration of Natural Runoff	7,500
Artificial Recharge	7,895
Total Inflow	**22,044**
Outflow	
2017 Groundwater Pumping	14,573
Natural Outflow	6,220
Total Outflow	**20,793**
Annual Balance	**+1,251**

Groundwater overdraft within the Mission Creek Subbasin (excluding artificial recharge) is now estimated to have averaged up to 9,000 acre feet per year (AF/Yr) (14,000 acre feet (AF) water produced - 5,000 AF non-consumptive return = 9,000 AF of groundwater overdraft) during the last five years. Cumulative overdraft offset by artificial recharge is estimated to be roughly 98,000 AF (DWA, 2015).[26]

Regional water levels have been declining since the early 1950's due to scarce annual precipitation and groundwater extractions (DWR 2003). Water levels have declined in portions of the Mission Creek Subbasin approximately 100 feet between the years 1936 and 2003. Based on DWA's 2015-2016 Engineer's Report for the Mission Creek Subbasin, cumulative overdraft offset by artificial recharge is estimated at 100,000 AF.[27]

Due to continuing overdraft conditions in the Mission Creek Subbasin, CVWD and DWA began constructing facilities to replenish the Mission Creek Subbasin in October 2001. Facilities were completed in June 2002 and in December 2002, DWA and CVWD began recharge activities in the Mission Creek Subbasin. The current replenishment program is effectively increasing water levels and is expected to stabilize or reverse the water level decline.[28]

Currently, MSWD has groundwater elevation monitoring wells and has been the exclusive monitoring and reporting agency to California Statewide Groundwater

[26] MSWD 2015 UWMP, p. 6-10
[27] MSWD 2015 UWMP, p. 6-10
[28] MSWD 2015 UWMP, p. 6-11

Elevation Monitoring (CASGEM) for groundwater conditions in the Mission Creek Subbasin and Garnet Hill Subbasin (portion of Indio Subbasin).[29]

MSWD, DWA, and CVWD now jointly manage the Mission Creek Subbasin under the terms of the Mission Creek Settlement Agreement (December, 2004). This agreement and the 2014 Mission Creek Groundwater Replenishment Agreement between CVWD and DWA specify that the available SWP water will be allocated between the Mission Creek and Indio Subbasins in proportion to the amount of water produced or diverted from each Subbasin during the preceding year. In 2018, production from the Mission Creek Subbasin was about 8.2 percent of the combined production from these two Subbasins.[30]

Since there is no physical connection to SWP facilities in the Coachella Valley, in the 1970s, CVWD and DWA signed a water exchange agreement with the Metropolitan Water District of Southern California (Metropolitan) to deliver an equivalent amount of Colorado River water from Metropolitan's Colorado River Aqueduct (CRA) in exchange for CVWD's and DWA's SWP water; referred to herein as SWP Exchange Water.

Deliveries of SWP Exchange Water from the CRA to the Mission Creek Groundwater Replenishment Facility began in 2003. The spreading facilities consist of 57 acres of percolation ponds (47 acres wetted bottom area). According to the 2013 MC-GH WMP, since the commencement of recharge activities, an average of approximately 12,007 acre-ft/yr of water has been recharged in the basin with recharge ranging from 100 to 33,210 acre-ft/yr. A portion of the recharge represents advanced delivery of SWP Exchange Water, further discussed in **Section 4.3.2.2**. **Table 4-2** summarizes the total volume of water delivered for artificial recharge in the Mission Creek. Based on evaluation of CIMIS seasonal evapotranspiration data, it is conservatively estimated that 2 percent of the recharged water is evaporated from the spreading facilities and 98 percent of the water reaches the groundwater basin.[31]

[29] MSWD 2015 UWMP, p. 6-11
[30] CVWD Engineer's Report on Water Supply and Replenishment Assessment 2018-2019, Tables 3-1 and 4-1
[31] 2013 MC-GH WMP, p. 4-8

Table 4-2
Imported Water Deliveries to the Groundwater Spreading Facilities in the Indio and Mission Creek Subbasins

Year	Whitewater River Spreading Facility (acre-ft/year)	Mission Creek Spreading Facility (acre-ft/year)
1973	7,475	-
1974	15,396	-
1975	20,126	-
1976	13,206	-
1977	0	-
1978	0	-
1979	25,192	-
1980	26,341	-
1981	32,251	-
1982	27,020	-
1983	53,732	-
1984	83,708	-
1985	251,994	-
1986	298,201	-
1987	104,372	-
1988	1,097	-
1989	12,479	-
1990	31,721	-
1991	12	-
1992	40,870	-
1993	60,183	-
1994	32,325	-
1995	61,318	-
1996	138,266	-
1997	113,677	-
1998	132,455	-
1999	90,601	-
2000	72,450	-
2001	707	-
2002	33,435	4,733
2003	861	100
2004	13,244	5,564
2005	165,554	24,723
2006	98,959	19,901
2007	16,009	1,011
2008	8,008	503
2009	57,024	4,090
2010	228,330	33,210
2011	232,214	26,238
2012	257,267	23,406

Table 4-2 (continued)
Imported Water Deliveries to the Groundwater Spreading Facilities in the Indio and Mission Creek Subbasins

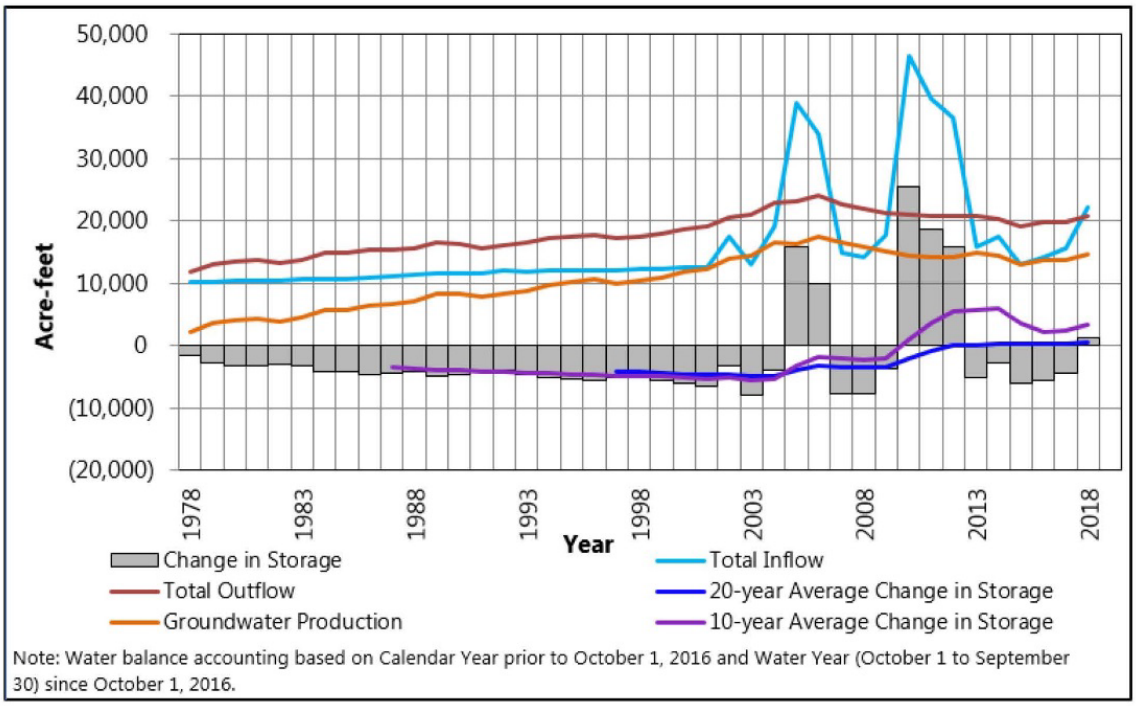
Year	Whitewater River Spreading Facility (acre-ft/year)	Mission Creek Spreading Facility (acre-ft/year)
2013	26,620	2,379
2014	3,533	4,325
2015	865	171
2016	35,699	0
2017	385,994	9,248
Total:	**2,924,797**	**159,602**

Source: DWA Engineer's Report, May 2018. Note that the flows presented in Table 4-2 only consist of SWP Exchange Water and do not include flows due to natural recharge or evaporation losses.

The historical annual change in storage for the Mission Creek subbasin is presented on **Figure 4-2**. It is observed that groundwater storage declined from 1936 until imported water recharge activities were started in the Mission Creek subbasin in 2003. Increasing values are reflective of additions to total groundwater storage (due to higher recharge than pumping), and declining values are reflective of decreases in total groundwater storage (pumping greater than recharge). The effect of imported water recharge is clearly seen for the Mission Creek Subbasin since 2003. During periods of relatively high recharge (2005-2006 and 2010-2011), groundwater storage increased whereas in periods of lower recharge (2003-2004 and 2007-2009), groundwater storage declined. As of 2010, about 160,000 acre-ft of water has been lost from storage since 1936.[32]

[32] 2013 MC-GH WMP, p. 4-11

Figure 4-2
Historical Annual in Groundwater Storage – Mission Creek Subbasin
1978 - 2018[33]



4.3.1.2 Garnet Hill Subbasin

MSWD produces groundwater from the Garnet Hill Subbasin through one (1) active well. While the Project will not rely on the Garnet Hill Subbasin to meet demand, the subbasins are intertied, as described herein.

The Garnet Hill Subbasin which lies immediately south of the Mission Creek Subbasin, underlies approximately 20 square miles and is subordinate to the Indio Subbasin (DWR, 2003). The basin is bounded on the north by the Banning fault, on the south by the Garnet Hill fault, and on the east and west by non-water to semi-water bearing rocks.[34]

The area between the Garnet Hill fault and the Banning fault, named the Garnet Hill subarea by DWR (2003), was considered a distinct Subbasin by the USGS because of the effectiveness of the Banning and Garnet Hill faults as barriers to groundwater

[33] Mission Creek Subbasin Annual Report for Water Year 2017-2018
[34] MSWD 2015 UWMP, p. 6-12

movement. This is illustrated by a difference of 170 feet in groundwater level elevation in a horizontal distance of 3,200 feet across the Garnet Hill fault, as measured in Spring 1961.[35]

The Garnet Hill Subbasin is considered an unconfined aquifer with a saturated thickness of 1,000 feet or more and an estimated total storage capacity on the order of 1.0 MAF (DWR 2003). The Subbasin is naturally recharged by subsurface flow from the Mission Creek Subbasin and runoff from the Whitewater River watershed on the west. Irrigation return flow and discharges from municipal and individual subsurface wastewater disposal systems also contribute to recharge but is considered very small. Total 2009 inflow to the Garnet Hill Subbasin is estimated at 25,150 acre-feet (Psomas, 2010).[36]

The primary outflows from the Garnet Hill Subbasin are across the Garnet Hill Fault to the Indio Subbasin. In addition, limited groundwater production for domestic, agricultural and commercial use also occurs but has only recently been of any significance. Groundwater production has varied over the years, ranging from a high of over 4,000 AFY in the early 1950s to less than 50 AFY in the mid-1980s. Currently, groundwater production is estimated at between 300-500 AFY (PSOMAS, 2010). MSWD constructed Well 33 in the Garnet Hill Subbasin with production since 2007. MSWD, CVWD and DWA have jointly developed the Mission Creek/Garnet Hill Water Management Plan for this Subbasin along with the Mission Creek Subbasin (MWH, 2013).[37]

4.3.1.3 Desert Hot Springs Subbasin

The Desert Hot Springs Subbasin is bounded to the north by the Little San Bernardino Mountains and to the southwest by the Mission Creek Fault and to the southeast by the San Andreas Fault. The San Andreas Fault separates the Desert Hot Springs Subbasin from the Mission Creek and Indio Subbasins and serves as an effective barrier to groundwater flow. The Desert Hot Springs Subbasin is not extensively developed except in the area of Desert Hot Springs. Relatively poor groundwater quality has limited the use of this Subbasin for potable supply. Total groundwater storage capacity for the Desert Hot Springs Subbasin is estimated to be 4.1 MAF (DWR 2003). No municipal groundwater production is reported to occur in the Subbasin (CVWD, 2010).[38]

[35] MSWD 2015 UWMP, p. 6-12
[36] MSWD 2015 UWMP, p. 6-12
[37] MSWD 2015 UWMP, p. 6-12
[38] MSWD 2015 UWMP, p. 6-12

4.3.1.4 Indio Subbasin

The Indio Subbasin, part of what was once referred to as the Whitewater Subbasin, comprises the major portion of the floor of the Coachella Valley and encompasses approximately 400 square miles. Beginning approximately one mile west of the junction of State Highway 111 and Interstate 10, the Indio Subbasin extends southeast approximately 70 miles to the Salton Sea. The Subbasin is bordered on the southwest by the Santa Rosa and San Jacinto Mountains, and is separated from the Garnet Hill, Mission Creek and Desert Hot Springs Subbasins to the north and east by the Garnet Hill and San Andreas Faults.[39]

The limit of the Indio Subbasin along the base of the San Jacinto Mountains and the northeast portion of the Santa Rosa Mountains coincides with the Coachella Valley Groundwater Basin boundary. The Garnet Hill Fault, which extends southeastward from the north side of San Gorgonio Pass to the Indio Hills, is a relatively effective barrier to groundwater movement in the Garnet Hill Subbasin. The San Andreas Fault, extending southeastward from the junction of the Mission Creek and Banning faults in the Indio Hills and continuing out of the basin on the east flank of the Salton Sea, is also an effective barrier to groundwater movement. The historic fluctuations of water levels within the Indio Subbasin indicate a steady decline in the levels throughout the Subbasin prior to 1949.[40]

MSWD currently produces groundwater from the Indio Subbasin, as defined herein, through two (2) active wells; however, the Project will not rely on the Indio Subbasin to meet demand. Of note, DWR considers the Garnet Hill Subbasin as part of the Indio Subbasin; however, they are considered separate basins at the regional/local level and herein.

4.3.1.5 Cabazon Storage Unit of the San Gorgonio Pass Subbasin

MSWD produces groundwater from the San Gorgonio Pass Subbasin through two (2) active wells. However, the Project will not rely on the San Gorgonio Pass Subbasin to meet demand. A portion of the MSWD western service area is underlain by the San Gorgonio Pass Subbasin. The portion of the Coachella Valley Groundwater Basin that lies entirely within the San Gorgonio Pass is described as the San Gorgonio Pass Subbasin (DWR 1964). This Subbasin is bounded on the north by the San Bernardino Mountains and by semi-permeable rocks, and on the south by the San Jacinto Mountains. A surface drainage divide between the Colorado River and South Coastal Hydrologic Study Areas bounds the Subbasin on the west. The eastern boundary is

[39] MSWD 2015 UWMP, p. 6-13
[40] MSWD 2015 UWMP, p. 6-13

formed by a bedrock constriction that creates a groundwater cascade into the Indio Subbasin (DWR 1964).[41]

The main water bearing deposits in the Subbasin are Holocene and Pleistocene age alluvium and Pliocene to Pleistocene age San Timoteo Formation. Holocene alluvium is mostly gravel and sand and, where saturated, would yield water readily to wells. Within the Subbasin, these deposits lie largely above the water table and contribute little water to wells. Holocene alluvium is found in the tributaries of the Subbasin and allows runoff to infiltrate and recharge the Subbasin (DWR, 1987). Older, Pleistocene-age alluvium contains sand and gravel, but also large amounts of clay and silt. These deposits yield moderate amounts of water to wells (DWR 1987).[42]

Groundwater levels throughout the Subbasin declined significantly from 1933 through 1939 during the construction of the San Jacinto Tunnel as large quantities of groundwater were pumped and diverted into the Indio Subbasin (SGPWA 2001). Groundwater levels in the eastern part of the Subbasin rose or stayed the same between 1967 and 1987 (DWR, 1987). Total storage capacity of the Subbasin was estimated to be about 2.7 MAF by DWR (1964). A re-evaluation by DWR (1987) estimates total storage capacity to be about 2.2 MAF.[43]

The San Gorgonio Pass Subbasin is subdivided into a series of storage units that include: the Banning Bench, Banning, Beaumont, and Cabazon storage units (Boyd, 1969). The Cabazon storage unit within the San Gorgonio Basin is recharged naturally with runoff from the adjacent San Jacinto and San Bernardino Mountains.[44]

The Cabazon storage unit encompasses approximately 11 square miles. The Cabazon storage unit is located near the western boundary of the MSWD boundary. MSWD operates two (2) wells in the Cabazon storage unit. Other groundwater users in the Cabazon storage unit include Desert Hills Premium Outlets and Cabazon Water District.

4.3.1.6 District Groundwater Production

Historical groundwater production for each District well and for each subbasin from 2010 through 2018 is shown in **Table 4-3**. A summary of groundwater pumped by the District by subbasin from 2011 through 2015 is shown in **Table 4-4**.

[41] MSWD 2015 UWMP, p. 6-13
[42] MSWD 2015 UWMP, p. 6-13
[43] MSWD 2015 UWMP, pp. 6-13 to 6-14
[44] MSWD 2015 UWMP, p. 6-14

Table 4-3
Historical Groundwater Production for District Wells (AFY)

Well No.	2010	2011	2012	2013	2014	2015	2016	2017	2018
Mission Creek Subbasin									
MW-22	980.0	456.1	956.8	951.4	854.0	1,186.3	1,171.2	1,319.1	919.3
MW-24	788.8	974.6	1,037.2	1,130.5	1,073.3	1,059.5	1,014.4	1,038.3	1,081.8
MW-27	466.2	255.1	285.8	287.0	357.4	105.8	0.0	134.5	255.9
MW-28	378.4	126.8	128.6	57.1	54.5	70.2	34.3	67.0	41.6
MW-29	1,513.3	1,789.3	1,305.3	1,345.8	1,224.0	133.4	0.0	0.0	1,383.2
MW-30[1]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-31	1,612.9	980.8	784.7	603.6	496.4	518.0	378.9	719.3	617.9
MW-32	643.6	950.7	1,159.0	1,293.0	1,387.2	1,486.8	1,628.7	1,195.7	1,404.7
MW-34	505.2	692.4	722.8	754.5	620.3	389.5	588.7	615.0	661.0
MW-35[2]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-37	1,344.5	1,636.6	1,732.5	1,706.4	1,687.9	1,841.0	2,076.0	2,118.2	1,202.4
Subtotal:	*8,232.9*	*7,862.4*	*8,112.7*	*8,129.3*	*7,755.0*	*6,790.5*	*6,892.1*	*7,207.2*	*7,567.7*
Garnet Hill Subbasin									
MW-33	287.9	497.4	176.7	202.1	216.0	316.2	285.5	448.8	154.4
San Gorgonio River Subbasin - Cabazon Unit									
MW-25	20.3	32.2	41.7	41.2	31.5	21.1	20.9	17.4	20.4
MW-25A	43.6	29.9	23.9	21.9	37.5	36.7	36.7	42.3	50.9
MW-26	72.2	80.1	72.6	70.9	82.3	82.5	80.2	86.7	78.3
MW-26A	7.8	7.6	7.3	13.7	3.7	5.0	1.9	2.9	3.4
Subtotal:	*143.9*	*149.8*	*145.5*	*147.7*	*155.0*	*145.3*	*139.7*	*149.2*	*153.0*
Total:	**8,664.7**	**8,509.6**	**8,434.9**	**8,479.1**	**8,126.0**	**7,252.0**	**7,317.3**	**7,805.2**	**7,875.2**

Table 4-4
Groundwater Volume Pumped (AFY)

Groundwater Type	Basin Name	2011	2012	2013	2014	2015
Alluvial Basin	Mission Creek	7,864.4	8,112.7	8,129.3	7,755.0	6,790.5
Alluvial Basin	Garnet Hill	497.4	176.7	202.1	216.0	316.2
Alluvial Basin	San Gorgonio River - Cabazon Unit	149.8	145.5	147.7	155.0	145.3
	Total:	**8,511.6**	**8,434.9**	**8,479.1**	**8,126.0**	**7,252.0**

4.3.2 Imported Water

Both CVWD and DWA are State Water Contractors. However, there is no conveyance system in place to deliver SWP water to the Coachella Valley. Conversely, imported water from the Colorado River is delivered to Southern California agencies through the Colorado River Aqueduct (CRA) that traverses through the Coachella Valley. As such, both DWA and CVWD have entered into separate agreements with Metropolitan to receive Colorado River water in exchange for State Water Project (SWP) water on an acre-foot-for-acre-foot basis (SWP Exchange Water).

In 1997, DWA worked with Metropolitan to get a 48-inch turnout constructed along the CRA system just south of Indian Avenue and west of Worsley Road. In addition, DWA acquired property, approximately 190 acres, near the turnout to construct spreading basins to hold the Colorado River water as it percolates downward into the Mission Creek Subbasin. In 2002, DWA completed construction of the Mission Creek Recharge Facilities with a series of 13 recharge basins and a combined surface area of 57 acres. Replenishments efforts began in 2003 and, to date, a cumulative total of approximately 161,588 AF of supplemental water has been recharged into the Mission Creek Subbasin.[45]

The Indio Subbasin has been replenished using SWP Exchange Water since 1973. Administered by CVWD, Colorado River water is recharged in two separate Whitewater River Groundwater Replenishment facilities. To date, approximately 3,447,907 AF of supplemental water has been recharged into the Indio Subbasin.[46]

The spreading of Metropolitan's SWP in the Mission Creek Subbasin benefits the City of Desert Hot Springs and MSWD. MSWD pays DWA's replenish assessment for every AF of supplemental water extracted from the Mission Creek Subbasin.

4.3.2.1 Colorado River Water

Colorado River supplies are important to the Coachella Valley for two primary reasons. First, and as further discussed below, a substantial portion of California's share of Colorado River water is allocated directly to CVWD. Second, much of the replenishment supplies used in the Valley come from MWD's allocation of Colorado River water, via the exchange agreement for SWP supplies, also further discussed in the following.

Colorado River water has been a major source of supply for the Coachella Valley since 1949 with the completion of the Coachella Canal.[47] The Colorado River is managed and operated in accordance with the Law of the River, the collection of interstate compacts, federal and state legislation, various agreements and contracts, an international treaty, a U.S. Supreme Court decree, and federal administrative actions that govern the rights to use of Colorado River water within the seven Colorado River Basin states. The Colorado River Compact, signed in 1922, apportioned the waters of the Colorado River Basin between the Upper Colorado River Basin (Colorado, Wyoming, Utah, and New Mexico) and the Lower Basin (Nevada, Arizona, and

[45] CVWD Engineer's Report on Water Supply and Replenishment Assessment 2019-2020, Table 3-2.
[46] CVWD Engineer's Report on Water Supply and Replenishment Assessment 2019-2020, Table 4-2.
[47] 2010 CVWMP, p. 4-13.

California). The Colorado River Compact allocates 15 million AFY of Colorado River water: 7.5 million AFY to the Upper Basin and 7.5 million AFY to the Lower Basin, plus up to 1 million AFY of surplus supplies. The Lower Basin's water was further apportioned among the three Lower Basin states by the Boulder Canyon Project Act in 1928 and the 1964 U.S. Supreme Court decree in Arizona v. California. Arizona's basic annual apportionment is 2.8 million AFY, California's is 4.4 million AFY, and Nevada's is 0.3 million AFY. California has been diverting up to 5.3 million AFY in recent years, using the unused portions of the Arizona and Nevada entitlements. Mexico is entitled to 1.5 million AFY of the Colorado River under the 1944 United States-Mexico Treaty for Utilization of Waters of the Colorado and Tijuana Rivers and of the Rio Grande. However, this treaty did not specify a required quality for water entering Mexico. In 1973, the United States and Mexico signed Minute No. 242 of the International Boundary and Water Commission requiring certain water quality standards for water entering Mexico.[48]

California's apportionment of Colorado River water is allocated by the 1931 Seven Party Agreement among Palo Verde Irrigation District (PVID), Imperial Irrigation District (IID), CVWD and Metropolitan. The three remaining parties, the City and the County of San Diego and the City of Los Angeles, are now part of Metropolitan. The allocations defined in the Seven Party Agreement are shown in **Table 4-5** below. In its 1979 supplemental decree in the Arizona v. California case, the United States Supreme Court also assigned "present perfected rights" to the use of river water to a number of individuals, water districts, towns and Indian tribes along the river. These rights, which total approximately 2,875,000 AFY, are charged against California's 4.4 million AFY allocation and must be satisfied first in times of shortage. Under the 1970 Criteria for Coordinated Long-Range Operation of the Colorado River Reservoirs (Operating Criteria), the Secretary of the Interior determines how much water is to be allocated for use in Arizona, California and Nevada and whether a surplus, normal or shortage condition exists. The Secretary may allocate additional water if surplus conditions exist on the River (see additional discussion below).[49]

[48] 2010 CVWMP, p. 4-13.
[49] 2010 CVWMP, p. 4-13.

Table 4-5
Priorities and Water Delivery Contracts
California Seven Party Agreement of 1931

Priority	Description	Acre-ft/year
1	Palo Verde Irrigation District gross area of 104,500 acres of Coachella Valley lands	3,850,000
2	Yuma Project (Reservation Division) not exceeding a gross area of 25,000 acres within California	
3(a)	IID, CVWD and lands in Imperial and Coachella Valley's to be served by the All American Canal	
3(b)	Palo Verde Irrigation District – 16,000 acres of mesa lands	
4	Metropolitan Water District of Southern California for use on coastal plain	550,000
	Subtotal – California Basic Apportionment	4,400,000
5(a)	Metropolitan Water District of Southern California for use on coastal plain	550,000
5(b)	Metropolitan Water District of Southern California for use on coastal plain	112,000
6(a)	IID and lands in the Imperial and Coachella Valley's to be served by the All American Canal	300,000
6(b)	Palo Verde Irrigation District – 16,000 acres of mesa lands	
	Total	**5,362,000**

Sources: United States Bureau of Reclamation, http://www.usbr.gov; Coachella Valley Water Management Plan Update, January 2012, p. 4-14, Table 4-2.

California's Colorado River supply is protected by the 1968 Colorado River Basin Project Act, which provides that in years of insufficient supply on the main stream of the Colorado River, supplies to the Central Arizona Project shall be reduced to zero before California will be reduced below 4.4 million AF in any year. This assures full supplies to the Coachella Valley except in periods of extreme drought. As further described below, delivery analyses performed for the Interim Guidelines for Lower Basin Shortages and Coordinated Operations for Lakes Powell and Mead indicated that that California would only experience shortages if the total shortage in the Lower Basin exceeds 1.7 million AFY.[50]

The Coachella Canal (Canal) is a branch of the All-American Canal that brings Colorado River water into the Imperial and Coachella Valleys. Historically, CVWD received approximately 330,000 AFY of Priority 3A Colorado River water delivered via the Coachella Canal. The Canal originates at Drop 1 on the All-American Canal and extends approximately 122 miles, terminating in CVWD's Lake Cahuilla. The service

[50] 2010 CVWMP, p. 4-14.

area for Colorado River water delivery under CVWD's contract with Reclamation is defined as Improvement District No. 1 (ID-1) which encompasses most of the East Valley and a portion of the West Valley north of Interstate 10. Under the 1931 California Seven Party Agreement, CVWD has water rights to Colorado River water as part of the first 3.85 million AFY allocated to California. CVWD is in the third priority position along with IID.[51]

Quantification Settlement Agreement

Although the rights and relative priorities to Colorado River supplies as discussed above remain established under the *Law of the River*, an additional framework applies in California. In 2003, CVWD, IID and Metropolitan successfully completed negotiation of the Quantification Settlement Agreement (QSA). The QSA quantifies the Colorado River water allocations of California's agricultural water contractors for the next 75 years and provides for the transfer of water between agencies.

Specific programs under the QSA include lining portions of the All-American and Coachella Canals, which conserve approximately 96,000 acre-feet annually. As a result, about 80,000 acre-feet of conserved water is delivered to the San Diego County Water Authority ("SDCWA") by exchange with Metropolitan. Metropolitan also takes delivery of 16,000 acre-feet annually that will be made available for the benefit of the La Jolla, Pala, Pauma, Rincon and San Pasqual Bands of Mission Indians, the San Luis Rey River Indian Water Authority, the City of Escondido and the Vista Irrigation District, upon completion of a water rights settlement and once certain conditions are met. An amendment to the 1988 Conservation Agreement between Metropolitan and IID and an associated 1989 Approval Agreement among Metropolitan, IID, CVWD and PVID, extended the term of the 1988 Conservation Agreement and limited the single year amount of water used by CVWD to 20,000 acre-feet. Also included under the QSA is the Delivery and Exchange Agreement between Metropolitan and CVWD that provides for Metropolitan to deliver annually up to 35,000 acre-feet of Metropolitan's State Water Project contractual water to CVWD by exchange with Metropolitan's available Colorado River supplies. In calendar year 2011, under a supplemental agreement with CVWD, Metropolitan delivered 105,000 acre-feet, which consisted of the full 35,000 acre-feet for 2011 plus advance delivery of the full contractual amounts for 2012 and 2013.[52]

Under the QSA, CVWD has a base allotment of 330,000 AFY. In accordance with the QSA, CVWD has entered into water transfer agreements with Metropolitan and IID that increase CVWD supplies as shown in **Table 4-6** below.[53]

[51] 2010 CVWMP, p. 4-14.
[52] MWDSC 2013 Preliminary Official Statement, Water Revenue Refunding Bonds, Appendix A, p. A-16.
[53] CVWD 2015 UWMP, pp. 6-12 to 6-13.

Table 4-6
CVWD Deliveries under the QSA

Component	2015 Amount (AFY)	2026-2047 Amount (AFY)	2048-2077 Amount (AFY)
Base Allotment	330,000	330,000	330,000
Less Coachella Canal Lining (to SDCWA)	-26,000	-26,000	-26,000
Less Miscellaneous/Indian PPRs	-3,000	-3,000	-3,000
1988 MWD/IID Approval Agreement	20,000	20,000	20,000
First IID/CVWD Transfer	36,000	50,000	50,000
Second IID/CVWD Transfer	0	53,000	0
MWD/CVWD Replacement Water[1]	0	0	50,000
MWD/CVWD SWP Transfer[2]	35,000	35,000	35,000
Total Diversion at Imperial Dam	**392,000**	**459,000**	**456,000**
Less Conveyance Losses[3]	-14,000	-14,000	-14,000
Total Deliveries to CVWD	**378,000**	**445,000**	**442,000**

[1] MWD assumes the obligation to provide 50,000 AFY of replacement water after 2048.
[2] The 35,000 AFY may be delivered at either Imperial Dam or Whitewater River and is not subject to SWP or Colorado River reliability.
[3] Conveyance losses and regulatory water based on 2009-2014 averages.
Source: CVWD 2015 UWMP, Table 6-3, p. 6-13

As of 2015, CVWD receives 378,000 AFY of Colorado River water deliveries under the QSA. see **Table 4-6** above. This includes the base entitlement of 330,000 AFY, Metropolitan/IID Approval of 20,000 AFY, 36,000 AFY of IID/CVWD First transfer, and 35,000 AFY of Metropolitan/SWP transfer. It also includes the 26,000 AFY transferred to San Diego County Water Authority (SDCWA) as part of the Coachella Canal lining project and the 3,000 AFY transfer to Indian Present Perfected Rights (PPRs). CVWD's allocation of Colorado River water will increase to 419,000 AFY in 2018, and 459,000 AFY in 2026, the reduce to 456,000 AFY in 2048 and remain at that level for the remaining 75 year term of the QSA.[54] As further discussed below, legal challenges were filed against the QSA in 2003. While several of the issues have been resolved, the litigation continues and will likely take several more years to complete.

Factors Affecting Colorado River Supplies

Several important factors have the potential to affect the long-term availability and reliability of Colorado River supplies in the Coachella Valley. Among those factors are drought conditions in the Colorado River Basin; water requirements for

[54] CVWD 2015 UWMP, pp. 6-12 to 6-13.

endangered species and habitat protection; climate change; and lawsuits challenging the validity of the QSA. A detailed discussion of these factors is presented below.

Drought Conditions and Interim Guidelines

Drought conditions in the Colorado River Basin are well documented. The period from 2000 through 2007 was the driest eight-year period in the 100-year historical record of the Colorado River. This drought in the Colorado River Basin reduced Colorado River system storage, while demands for Colorado River water supplies continued to increase. From October 1, 1999 through September 30, 2007, storage in Colorado River reservoirs decreased from 55.8 million AF (approximately 94 percent of capacity) to 32.1 million AF (approximately 54 percent of capacity), and was as low as 29.7 million AF (approximately 52 percent of capacity) in 2004. In November 2010, Lake Powell and Lake Mead were at 62 percent and 38 percent of their storage capacities, respectively (Reclamation, 2010b). As of January 2020, Lake Powell and Lake Mead were at 51 percent and 43 percent of their respective storage capacities, with total system storage reported at 52 percent capacity.[55]

In January 2001, the Secretary of the Interior adopted guidelines (the "Interim Surplus Guidelines") for use through 2016 in determining if there is surplus Colorado River water available for use in California, Arizona and Nevada. The Interim Surplus Guidelines were amended in 2007, with the new Guidelines extending through 2026. The Interim Surplus Guidelines contain a series of benchmarks for reductions in agricultural use of Colorado River water within California by set dates.[56]

The purposes of the Guidelines are to: (1) improve Reclamation's management of the Colorado River by considering trade-offs between the frequency and magnitude of reductions of water deliveries, and considering the effects on water storage in Lake Powell and Lake Mead, where Reclamation will also consider the effects on water supply, power production, recreation, and other environmental resources; (2) provide mainstream United States users of Colorado River water, particularly those in the Lower Division states, a greater degree of predictability with respect to the amount of annual water deliveries in future years, particularly under drought and low reservoir conditions; and (3) provide additional mechanisms for the storage and delivery of water supplies in Lake Mead to increase the flexibility of meeting water use needs from Lake Mead, particularly under drought and low reservoir conditions.[57]

[55] Lower Colorado Region Available Reservoir Elevations and Contents. Available at: http://www.usbr.gov/lc/region/g4000/hourly/rivops.html" http://www.usbr.gov/lc/region/g4000/hourly/rivops.html
[56] 2010 CVWMP, p. 4-28.
[57] 2010 CVWMP, p. 4-28.

As a result of the interim guidelines, recipients of Colorado River water, including CVWD, will receive deliveries with a higher degree of reliability. Due to California's Colorado River priority system, all delivery shortages would be borne by Metropolitan, which has a lower priority than CVWD (Reclamation, 2007). Consequently, no reduction in CVWD's Colorado River supplies is projected at this time.[58]

Protected Species and Other Environmental Issues

Federal and state environmental laws protecting fish species and other wildlife species have the potential to affect Colorado River operations. A number of species that are on either "endangered" or "threatened" lists under the ESAs are present in the area of the Lower Colorado River, including among others, the bonytail chub, razorback sucker, southwestern willow flycatcher and Yuma clapper rail. To address this issue, a broad-based state/federal/tribal/private regional partnership that includes water, hydroelectric power and wildlife management agencies in Arizona, California and Nevada have developed a multi-species conservation program for the main stem of the Lower Colorado River (the Lower Colorado River Multi-Species Conservation Program or "MSCP"). The MSCP allows Metropolitan to obtain federal and state permits for any incidental take of protected species resulting from current and future water and power operations of its Colorado River facilities and to minimize any uncertainty from additional listings of endangered species. The MSCP also covers operations of federal dams and power plants on the river that deliver water and hydroelectric power for use by Metropolitan and other agencies. The MSCP covers 27 species and habitat in the Lower Colorado River from Lake Mead to the Mexican border for a term of 50 years. Over the 50 year term of the program, the total cost to Metropolitan will be about $88.5 million (in 2003 dollars), and annual costs will range between $0.8 million and $4.7 million (in 2003 dollars).[59]

Potential Climate Change Impacts

Climate change has the potential to affect imported water supplies. Potential effects of global warming could also increase water demand within the Coachella Valley. Although precise estimates of potential future impacts of climate change on runoff throughout the Colorado River basin cannot be predicted with certainty, reports and data have been developed that address changes in climate and hydrology within that region. These impacts may include decrease in annual flow and increased variability, including more frequent and more severe droughts. Furthermore, even without precise knowledge of the effects, increasing temperatures alone would likely increase

[58] 2010 CVWMP, p. 4-28.
[59] MWDSC 2015 Official Statement, Special Variable Rate Water revenue Refunding Bonds, Appendix A, pp. A-23 to A-24.

losses due to evaporation and sublimation, resulting in reduced runoff.[60] More specifically, the Bureau of Reclamation's 2011 SECURE Water Act Report identifies the following climate challenges in the Colorado River basin: (1) on average, Colorado River Basin temperature is projects to increase by 5 to 6 degrees Fahrenheit during the 21st century, with slightly larger increases projected in the upper Colorado Basin; (2) precipitation is projected to increase by 2.1 percent in the upper Basin while declining by 1.6 percent in the lower Basin by 2050; (3) mean annual runoff is projected to decrease by 8.5 percent by 2050; and (4) warmer conditions will likely transition snowfall to rainfall, producing more December through March runoff and less April through July runoff.[61]

The 2011 SECURE Water Act Report also discussed potential future impacts for water and environmental resources in the Colorado River Basin. The Report notes that spring and early summer runoff reductions could translate into a drop in water supply for meeting irrigation demands and adversely impacting hydropower operations at smaller reservoirs; increased winter runoff may require infrastructure modifications or flood control rule changes to preserve flood protection, which could further reduce warm season water supplies; warmer conditions might result in increased stress on fisheries, shifts in geographic ranges, increased water demands for instream ecosystems and thermoelectric power production, increased power demands for municipal uses, including cooling, and increased likelihood of invasive species infiltrations, where endangered species issues might also be exacerbated; and warming could also lead to significant reservoir evaporation, increased agricultural water demands and losses during water conveyance and irrigation. (Id.)

In response to climate change issues, Reclamation is taking a lead role in assessing risks to Western U.S. water resources and is dedicated to mitigating risks to ensure long-term water resource sustainability. Where opportunities exist, Reclamation has begun adaptation actions in response to climate stresses as well as land use, population growth, invasive species and others. These activities include extending water supplies, water conservation, hydropower production, planning for future operations and supporting rural water development. For example, a 2010-2011 Pilot Run of the Yuma Desalting Plant increased water supplies in the lower Basin through conservation by an estimated 29,000 acre-feet, enough to supply as many as 150,000 people for one year. At Hoover Dam, new wide head range turbines are being installed that will allow more efficient power generation over a wider range of lake levels than existing turbines. Furthermore, the Department of the Interior High Priority Goal for Climate includes activities of the Landscape Conservation Cooperatives and Climate Science Centers, assessing vulnerabilities to the natural

[60] 2010 CVWMP, pp. 5-15 to 5-16.
[61] See, U.S. Department of the Interior, Bureau of Reclamation, Basin Report, Colorado River (http://www.usbr.gov/climate/SECURE/docs/coloradobasinfactsheet.pdf).

and cultural resources management by the Department and activities to adapt to the stresses of climate change. (Id.)[62]

According to DWR, increased air temperature will result in earlier snow melt runoff and a greater proportion of runoff due to rainfall. Because reservoir storage in the Colorado River basin is so large in comparison to annual basin runoff (roughly four times average runoff), a change in the timing of annual runoff would not be expected to significantly affect basin yield.[63]

Potential climate change impacts also were evaluated in the Environmental Impact Study (EIS) on the BOR interim surplus guidelines discussed above. The guidelines extend through 2026, providing the opportunity to gain valuable operating experience through the management of Lake Powell and Lake Mead, particularly for low flow reservoir conditions, and to improve the bases for making additional future operational decisions during the interim period and thereafter. The shortage sharing guidelines are crafted to include operational elements that would respond if potential impacts of climate change and increased hydrologic variability occur. The guidelines include coordinated operational elements that allow for adjustment of Lake Powell releases to respond to low average storage conditions in Lake Powell or Lake Mead. In addition, the guidelines enhance conservation opportunities in lower basin and retention of water in Lake Mead.[64]

While impacts from climate change cannot be quantified at this time, Coachella Valley water supplies are uniquely protected from potential impacts of climate change and corresponding shortages by: (1) California's first priority for Colorado River water supplies in the lower Colorado River basin, and (2) Coachella's high priority for Colorado River supplies among California users of Colorado River water.[65]

QSA Litigation

On November 5, 2003, IID filed a validation action in Imperial County Superior Court, seeking a judicial determination that thirteen agreements associated with the IID/SDCWA water transfer and the QSA are valid, legal and binding. Other lawsuits also were filed contemporaneously challenging the execution, approval and implementation of the QSA on various grounds. All of the QSA cases were coordinated in Sacramento Superior Court. Between early 2004 and late 2009, a

[62] See also, United States Geological Survey, Effects of Climate Change and Land Use on Water Resources in the Upper Colorado Basin, Fact Sheet 2010-3123, January 2011.
[63] Progress on Incorporating Climate Change into Management of California's Water Resources, Technical Memorandum Report, California Department of Water Resources, October 2006.
[64] 2010 CVWMP, pp. 5-15 to 5-16.
[65] 2010 CVWMP, p. 5-16.

number of pretrial challenges and dispositive motions were filed by the parties and ruled on by the court, which reduced the number of active cases and narrowed the issues for trial, the first phase of which began in November 2009 and concluded in December 2009. One of the key issues in this first phase was the constitutionality of the QSA Joint Powers Agreement, pursuant to which IID, CVWD and SDCWA agreed to commit $163 million toward certain mitigation and restoration costs associated with implementation of the QSA and related agreements, and the State agreed to be responsible for any costs exceeding this amount. A final judgment was issued on February 11, 2010, in which the trial court held that the State's commitment was unconditional in nature and, as such, violated the appropriation requirement and debt limitation under the California Constitution. The trial court also invalidated eleven other agreements, including the QSA, because they were inextricably interrelated with the QSA Joint Powers Agreement. Lastly, the trial court ruled that all other claims rose by the parties, including CEQA claims related to the QSA Programmatic EIR and the IID Transfer Project EIR, were moot.[66]

In March 2010, Metropolitan, IID, CVWD, SDCWA, the State and others filed notices of appeal challenging various aspects of the trial court's ruling. On December 7, 2011, the Court of Appeal issued its ruling reversing, in part, the trial court's ruling. In particular, the Court held that while the State's commitment to fund mitigation costs in excess of $163 million was unconditional, actual payment of such costs was subject to a valid appropriation by the Legislature, as required under the California Constitution. Moreover, the State's commitment did not create a present debt in excess of the State Constitution's $300,000 debt limit. Thus, the QSA Joint Powers Agreement was held to be constitutional. The Court of Appeal also rejected other challenges to this agreement, including that it was beyond the State's authority, there was no "meeting of the minds," and there was a conflict of interest. In light of its ruling, the court of appeal remanded the matter back to the trial court for further proceedings on the claims that had been dismissed as moot, including the CEQA claims.

On June 4, 2013, the trial court issued its ruling on remand, validating the QSA and eleven related agreements while denying the remaining legal challenges that were brought against the QSA. Among other important rulings, the court upheld the CEQA review that was prepared for the QSA. Among its decisions on specific environmental issues, the court determined that the potential air quality impacts to the Salton Sea were adequately analyzed under CEQA. The court also found that the use of a baseline consisting of existing and predicted future conditions of the Salton Sea was appropriate to measure the impacts of the long-term water transfers. It denied

[66] 2010 CVWMP, pp. 4-28 to 4-29; MWDSC 2015 Official Statement, Special Variable Rate Water revenue Refunding Bonds, Appendix A, p. A-21.

project opponents' arguments that more alternatives should have been considered and found that the water agencies' conclusion that use and transfer of water to the San Diego area would not induce growth was supported by record evidence. The court also addressed the nature of changes made to the agreements after the environmental documentation was completed and the procedural decision of water districts to designate themselves as "co-lead agencies" under CEQA, finding that these decisions did not violate CEQA. As a result, the court concluded that the record supported the lead agencies' conclusions relating to CEQA and upheld the validity of the QSA and eleven related agreements.

In January 2010, a separate complaint was filed by the County of Imperial and the Imperial County Air Pollution Control District alleging that execution and implementation of three QSA-related agreements violate the federal National Environmental Policy Act (NEPA) and the federal Clean Air Act (CAA). The complaint named the Department of the Interior, Secretary of the Interior, Bureau of Reclamation and Commissioner of Reclamation as defendants, and Metropolitan, CVWD, IID and SDCWA as real parties in interest. With respect to NEPA, the complaint alleged that the environmental impact statement prepared by the Bureau of Reclamation failed to adequately analyze potential impacts on the Salton Sea and on land use, growth and socioeconomics; improperly segmented various project components; failed to address cumulative impacts; and failed to address mitigation of potential impacts. With respect to the CAA, the complaint alleged that the Bureau of Reclamation failed to conduct a conformity analysis as required under the Act and Imperial County Air Pollution Control District's own rules. In April 2012, the court ruled against the plaintiffs and in favor of the defendants on all claims. The court held that the plaintiffs lacked standing to pursue NEPA and CAA claims and that the NEPA claims lacked merit. In May 2012, the plaintiffs filed a notice of appeal and the non-federal defendants filed a notice of cross-appeal. Briefing on all appeals was completed in 2013, and in May 2014 the United States Court of Appeals for the Ninth Circuit issued a decision that upheld the District Court ruling and found that no violations of NEPA or the CAA occurred in connection with the QSA.

Colorado River Basin Study

In December 2012, the Bureau of Reclamation (BOR) issued its Colorado River Basin Water Supply and Demand Study (2012 Study). According to BOR, the 2012 Study was prepared against the backdrop of challenges and complexities of ensuring a sustainable water supply and meeting future demand in the Colorado River system. Notably, the 2012 Study recognizes that because of the Colorado River system's ability to store approximately 60 million acre-feet of water (or nearly four years of average natural flow of the River), all requested deliveries have been met in the Lower Basin, despite recently experiencing the worst 11-year drought in the last

century.[67] The 2012 Study concludes that, without additional future water management actions among the Upper and Lower Basin states, a wide range of future imbalances is plausible, primarily due to uncertainties inherent in future water supply.[68] Comparing the median long-term water supply projections against the median long-term water demand projections, and factoring in the myriad factors having the potential to affect the availability and reliability of River supplies and demands (such as climate change, species and other environmental issues, social trends, economic and legal forces, and technical capabilities), the 2012 Study shows that a long-term projected imbalance of 3.2 million acre-feet or more could occur by the year 2060. To address such potential long-term imbalances, the 2012 Study identifies and discusses a broad range of potential options to resolve the differences between water supply and demand. During the study period, over 150 options were received and organized into four groups: (1) those that increase Basin water supplies; (2) those that reduce Basin water demands; (3) those that focus on modifying operations; and (4) those that focus primarily on Basin governance.[69] Moreover, recognizing that no single option is likely sufficient to resolve potential water supply and demand imbalances, the 2012 Study developed groups and portfolios of options to reflect different adaptive strategies.[70] Importantly, the 2012 Study recognizes that *complete* elimination of Basin vulnerability is not likely obtainable, yet concludes that implementation of various adaptive management options results in a significant reduction in vulnerability (e.g., the percentage of future scenarios resulting in Lake Mead elevations being less than 1,000 feet msl is reduced from 19 percent to only 3 percent).[71] Indeed the 2012 Study states that implementation of management portfolios are projected to be successful in significantly improving the resiliency of Basin resources to vulnerable hydrologic conditions. Similar to the extraordinary conservation and management efforts being undertaking throughout the Coachella Valley, the 2012 Study concludes that supply augmentation, water reuse and conservation will be critical tools in managing potential supply and demand imbalances.

4.3.2.2 State Water Project (SWP) Water

The SWP delivers water supplies from the Sacramento Delta to areas throughout the State, including Southern California. The system includes 660 miles of aqueduct and conveyance facilities extending from Lake Oroville in the north to Lake Perris in the south.

[67] 2012 Study, Executive Summary, p. ES-1.
[68] 2012 Study, Executive Summary, p. ES-6.
[69] 2012 Study, Executive Summary, p. ES-7.
[70] 2012 Study, Executive Summary, p. ES-11.
[71] 2012 Study, Executive Summary, p. ES-14.

SWP Contracts

The California Department of Water Resources (DWR) holds direct contracts to deliver SWP supplies to 29 contracting agencies that hold particular allotments to the annual yield of the SWP. These contracts run until 2035, with terms for renewal, and form the basis for the construction, operation and maintenance of the SWP. There are several different SWP Contract Water types including Table A. Table A water is delivered in accordance with contractual allotments and is given first priority for delivery.

CVWD and DWA are both State Water Contractors. CVWD's original right to SWP supply (Table A Allotment) was 23,100 acre-feet per year (ac-ft/yr) and DWA's original SWP Table A allotment was 38,100 ac-ft/yr, for a combined Table A allotment of 61,200 ac-ft/yr. In 2004, CVWD purchased an additional 9,900 ac-ft/yr of SWP water from the Tulare Lake Basin Water Storage District, which brought CVWD's SWP Table A Allotment to 33,000 ac-ft/yr. In 2007, CVWD and DWA made a second purchase of SWP water from the Tulare Lake Basin Water Storage District. CVWD purchased 5,250 ac-ft/yr and DWA purchased 1,750 ac-ft/yr. Also in 2007, CVWD and DWA completed the transfer of 12,000 ac-ft/yr and 4,000 ac-ft/yr, respectively, from the Berrenda Mesa Water District. These acquisitions brought CVWD's annual SWP Table A Allotment to 50,250 ac-ft/yr, and DWA's annual SWP Table A Allotment to 43,850 ac-ft/yr. In addition to these amounts, CVWD and DWA have entered an agreement with MWD whereby MWD has permanently transferred 88,100 ac-ft/yr and 11,900 ac-ft/yr of SWP Table A Allotments to CVWD and DWA, respectively. Generally, the agreement enables MWD to call back certain amounts during dry and critical dry years, where in other years CVWD and DWA recharge the SWP supplies within the Coachella Valley Groundwater Basin. In sum, and as further provided herein, up to 138,350 ac-ft/yr of SWP Table A Allotment is available to CVWD, and up to 55,750 ac-ft/yr is available to DWA. **Table 4-7** summarizes the CVWD and DWA total allocations of Table A SWP water.

In addition to the SWP allotments discussed above, CVWD and DWA secured additional rights to SWP supplies pursuant to a 2003 exchange agreement with Metropolitan. Historically, Metropolitan has not made full use of its SWP Table A Amounts in normal and wet years. Under the 2003 exchange agreement, CVWD and DWA acquired 100,000 AFY of Metropolitan's SWP Table A water as a permanent transfer, commencing in 2005. The terms of the agreement provide that Metropolitan has the option to call back the transferred water under certain conditions. This option must be exercised no later than April 30 of each year. Metropolitan's callback options are to be exercised in two 50,000 AF blocks. To estimate conservatively the average supply from this transfer, two scenarios are considered – without and with call-back. Without call-back, CVWD and DWA can receive SWP Exchange Water based on the

estimated DWR reliability (see discussion below). With call-back, it is assumed that Metropolitan would exercise its option to callback the 100,000 AFY in four wet years out of every 10 years and the amount of water called back would be deducted from average SWP exchange deliveries. The actual frequency of callback would depend on the availability of Metropolitan's water supplies to meet its demands, the price of the callback water, and the ability of Metropolitan to store or use the callback water. Since 2005, Metropolitan has exercised its call-back option only once in 2005.

Table 4-7
State Water Project Water Sources (AFY)

	Original SWP Table A	Tulare Lake Basin Transfer #1	Tulare Lake Basin Transfer #2	MWD Transfer	Berrenda Mesa Transfer	Total
CVWD	23,100	9,900	5,250	88,100	12,000	138,350
DWA	38,100		1,750	11,900	4,000	55,750
Total:	**61,200**	**9,900**	**7,000**	**100,000**	**16,000**	**194,100**

Source: 2010 CVWMP Update, Table 4-4
[1]CVWD purchase of Table A water from the Tulare Lake Basin Water Storage District in 2004.
[2]CVWD and DWA purchase of Table A SWP water from Tulare Lake Basin in 2007.
[3]CVWD and DWA acquired Metropolitan's SWP Table A water as a permanent transfer Under the 2003 Exchange Agreement.
[4]CVWD and DWA transfer of Table A water from the Berrenda Mesa Water District in 2007.

CVWD and DWA, as SWP contractors, have the ability to purchase additional SWP supplies on an interruptible basis as the opportunity presents. Contractors may choose to offer their allocated Table A water in excess of their needs, designated Turnback Pool water, to other contractors through two pools (A and B) in February and March of a given year. This water can be purchased for 50 percent (Pool A) or 25 percent (Pool B) of the Delta Water Charge plus the Variable OMP&R Transportation and Off-Aqueduct Power Charges. The first significant purchase by CVWD and DWA occurred from 1996 through 1999 when large amounts of Turnback Pool water were available. Available Turnback Pool water is allocated between interested parties based on their Table A amounts. During that period, CVWD and DWA purchased 276,000 acre-feet of water for recharge at Whitewater.[72]

SWP contractors may also receive water under Article 21 of their contracts. Article 21 water is water that SWP contractors may receive on a short-term basis in addition to their Table A water, if they request it. Article 21 water is used by many SWP contractors to help meet demands when allocations are less than 100 percent.[73]

[72] Mission Creek-Garnet Hill Subbasins Water Management Plan, Final Report, January 2013.
[73] DWR 2017 Final Delivery Capability Report, p. 20.

Notably, Article 21 water is typically available only in wet years and when aqueduct capacity is available. Article 21 water is apportioned to those contractors requesting it in the same proportion as their Table A water. According to DWR, Article 21 water is available to a SWP contractor only if the following conditions are met: "Excess water" is flowing through the Delta; the contractor is able to use the surplus water directly, such as by offsetting the use of groundwater that would otherwise occur, or can store it in its own system; delivering the water will not interfere with Table A allocations and SWP operations; and capacity is not being used for SWP purposes or scheduled SWP deliveries.[74] The cost of Article 21 water is the Variable OMP&R Transportation and Off-Aqueduct Power Charges and any incremental DWR power cost. CVWD and DWA purchased 35,600 acre-feet of Article 21 water in 2000 and 800 acre-feet in 2002 and 2003.[75] According to DWR, the estimated long-term average availability of Article 21 water is 50,000 acre-feet per year under current conditions, with variations according to average, dry-period and wet-period conditions.[76]

Another potentially available, intermittent source of SWP water to the Coachella Valley is the Yuba River Accord Dry Year Water Purchase Program. In March 2008, CVWD and DWA entered into separate agreements with DWR for the purchase and conveyance of supplemental SWP water under the Yuba River Accord Dry Year Water Purchase Program, which provides dry year supply through a water purchase agreement between DWR and Yuba County Water Agency (YCWA). The agreement was part of the Lower Yuba River Accord, which settled long stranding operational and environmental issues over in-stream flow requirements for the lower Yuba River. Yuba Accord water transfers include both surface water and groundwater substitution transfers for an estimated total of up to 140,000 AFY. The available water is allocated among participating SWP contractors based on their Table A Amounts. It is estimated that CVWD and DWA may be able to purchase up to 4 percent of Table A or 5,600 AFY, and 1.3 percent or 1,820 AFY, respectively, for a total of 7,420 AFY. The amount of water available for purchase in a given year varies and will be based on DWR's determination of the Water Year Classification. These agreements provide for the exchange of these supplies with Metropolitan for CRA water in accordance with existing exchange agreements. CVWD and DWA obtained 1,836 AF in 2008 and 3,482 AF in 2009 from this program.[77]

[74] DWR 2017 Final Delivery Capability Report, p. 20.
[75] Mission Creek-Garnet Hill Subbasins Water Management Plan, Final Report, January 2013.
[76] DWR 2017 Final Delivery Capability Report, pp. 27-28.
[77] 2011 SPEIR, p. 3-7.

Table 4-8
Department of Water Resources
Table A Water Allocations, 1991-2018

Year	Initial Allocation[1]	Final Allocation[1]	Deliveries[2]
1991	85%	30%	N/A
1992	20%	45%	N/A
1993	10%	100%	N/A
1994	50%	50%	N/A
1995	40%	100%	N/A
1996	40%	100%	N/A
1997	70%	100%	415
1998	40%	100%	1,364
1999	55%	100%	2,802
2000	50%	90%	1,813
2001	40%	39%	3,572
2002	20%	70%	2,360
2003	20%	90%	1,671
2004	35%	65%	3,450
2005	40%	90%	4,743
2006	55%	100%	2,648
2007	60%	60%	5,775
2008	25%	35%	7,473
2009	15%	40%	21,735
2010	5%	50%	37,401
2011	25%	80%	32,417
2012	60%	65%	33,166
2013	30%	35%	35,192
2014	5%	5%	36,030
2015	10%	20%	37,262
2016	10%	60%	37,495
2017	20%	85%	34,614
2018	15%	35%	33,348
AVERAGE:	**34%**	**66%**	17,125
		TOTAL:	**376,746**

[1]Source: California Department of Water Resources, Water Contract Branch within the State Water Project Analysis Office, Notices to State Water Contractors, 1991 – 2019.

[2]Source: CVWD Engineers Report on Water Supply and Replenishment Assessment, 2019-2020, Table 5-2

Historic Initial and Final Allocations and Historic Deliveries

Table 4-8, above, summarizes the historic initial and final allocations of SWP Table A water starting in 1991 and extending to 2018. The table also shows imported water deliveries to the East Whitewater Subbasin.

MWD Exchange Agreements

Since currently there is no conveyance facility to deliver SWP water to the Coachella Valley, CVWD and DWA cannot directly receive their SWP supplies. Instead, pursuant to certain exchange agreements, the CVWD and DWA SWP water is delivered to Metropolitan, which in turn delivers an equal amount of CRA water to CVWD and DWA to be recharged at the Levy, Whitewater and Mission Creek recharge facilities. CVWD and DWA are required to pay for their respective SWP costs and MWD is required to pay for its CRA costs. The original exchange agreements were entered in 1967. In 1983, the agreements were extended to 2035 (CVWD-Metropolitan, 1983; DWA-Metropolitan, 1983).

CVWD has operated a pilot recharge facility at Dike 4 near Avenue 62 since 1997. Construction of the full scale Levy facility was completed in mid-2009. Thereafter, substantially more recharge has occurred in the East Whitewater Subbasin. The Levy facility has an estimated capacity to recharge 40,000 AFY. In addition to the Levy facility, CVWD is planning construction of the Martinez Canyon recharge facility that is expected to recharge between 20,000 and 40,000 AFY on an average basis. The 2010 CVWMP considers alternative recharge scenarios to effectively recharge imported water at Whitewater, Levy, and Martinez to provide the greatest benefit for the groundwater basin.

SWP Reliability

DWR issues the State Water Project Delivery Capability Report every two years, with the most recent final version issued in March 2018 (the DWR 2017 Report). In its last several updates, DWR has projected reductions in average SWP water deliveries in comparison to 2005. The DWR 2017 Report identifies several factors that have the potential to affect the availability and reliability of SWP supplies. Although the DWR 2017 Report presents an extremely conservative projection of SWP delivery reliability, it remains the best available information concerning the SWP. Following is information and a brief summary of several factors identified in the DWR 2017 Report as having the potential to affect the availability and reliability of SWP supplies.

FWS and NMFS Biological Opinions

In December 2008 and June 2009, respectively, the United States Fish and Wildlife Service (FWS) and the National Marine Fisheries Service (NMFS) issued biological opinions (BiOps) setting forth each agency's conclusions regarding the effects that the proposed long-term coordinated operations of the SWP and Central Valley Project (CVP) would have on threatened and endangered fish species in the Delta.[78] Both BiOps conclude that the operation of the SWP and CVP as proposed by DWR and the Bureau of Reclamation would jeopardize the continued existence of the protected species. Because FWS and NMFS reached "jeopardy" conclusions, each was required by the federal Endangered Species Act (ESA) to develop a Reasonable and Prudent Alternative (RPA) to the proposed project, and to include that RPA in its respective BiOp. According to their terms, the RPAs developed and adopted by FWS and NMFS impose various new restrictions and requirements on SWP and CVP operations.

As applied to the SWP, the RPAs included in the BiOps have the potential to result in substantially reduced water exports from the Delta. Preliminary estimates prepared by DWR have indicated that, in comparison to the level of SWP exports from the Delta that previously were authorized under State Board Decision 1641 (D-1641),[79] the FWS BiOp could reduce SWP deliveries by 18 to 29 percent during average and dry conditions, respectively, and the NMFS BiOp could reduce SWP deliveries by an additional 10 percent (for an aggregate reduction of 28 to 39 percent). Those potential reductions, however, cannot be predicted with certainty because the RPA restrictions are dependent upon highly variable factors such as hydrologic conditions affecting Delta water supplies, flow conditions in the Delta, migratory and reproductive patterns of the protected species, and numerous other non-project factors that impact the health and abundance of fish species and their habitats. As further discussed below, the RPA restrictions contained in the BiOps have been expressly accounted for in DWR's 2015 Report and future projections of SWP deliveries.

[78] The December 15, 2008 FWS BiOp evaluated impacts to the delta smelt. The June 4, 2009 NMFS BiOp evaluated impacts to winter-run and spring-run Chinook salmon, steelhead, green sturgeon, and resident killer whales.

[79] D-1641 implements the objectives of the 1995 Bay-Delta Plan and imposes flow and water quality objectives to assure protection of beneficial uses in the Delta. The requirements of D-1641 address, among other things, standards for fish and wildlife protection, municipal and industrial water quality, agricultural water quality, and salinity. D-1641 imposed a new operating regime for the Delta, including measures such as X2, an export/inflow ratio, and the Vernalis Adaptive Management Program (VAMP). The standards under D-1641 are accomplished through requirements and conditions imposed on the water right permits for the SWP, the CVP and others. (*See*, California Water Plan Update 2009, Regional Reports Volume 3, Sacramento-San Joaquin River Delta at DB-6.)

FWS BiOp Litigation

In early 2009, the State Water Contractors, the San Luis Delta-Mendota Water Authority, and several individual water agencies holding contracts for SWP and CVP supplies filed legal challenges against the FWS BiOp regarding delta smelt.[80] In November 2009, the Federal District Court of the Eastern District of California granted summary judgment on the claim made by several plaintiffs that the federal defendants violated the National Environmental Policy Act (NEPA) by failing to perform NEPA analysis prior to provisionally adopting and implementing the FWS BiOp and RPA. Further, in May 2010, the court issued Findings of Fact and Conclusions of Law on a motion for preliminary injunction, which confirmed the court's prior NEPA ruling and also determined that plaintiffs were likely to prevail on their claims that FWS violated the federal ESA and the Administrative Procedure Act (APA) in adopting the RPA for delta smelt. Thereafter, the parties filed motions for summary judgment to obtain a final ruling in the cases, and those motions were argued in early July 2010. In March 2011, the court issued a final decision that invalidated the FWS BiOp and RPA in several respects and ordered FWS to prepare a new BiOp. FWS and others appealed that decision to the Ninth Circuit Court of Appeals. In March 2014, the Court of Appeals issued an opinion that reversed the District Court decision and determined that the FWS BiOp and RPA did not violate the ESA or the APA. The Court of Appeals ruled, however, that the Bureau of Reclamation (BOR) must prepare an Environmental Impact Statement under NEPA to evaluate the effects of the BiOp. To date that NEPA analysis has not been completed. In the meantime, FWS, DWR and BOR continue to use the RPA measures as a guideline for restricting SWP and CVP operations to protect delta smelt.

NMFS BiOp Litigation

After issuance of the NMFS BiOp in June 2009, the State Water Contractors and other water agencies filed legal challenges against the BiOp.[81] In May 2010, the Federal District Court for the Eastern District of California ruled that the federal defendants violated NEPA by failing to analyze the impact of the BiOp and RPA on humans and the human environment. The court also ruled that plaintiffs were likely to prevail on their claims that NMFS violated the federal ESA and the APA in adopting the RPA. As with the delta smelt litigation, the parties also filed motions for summary judgment to obtain a final ruling in the cases. In September 2011, the court issued a final decision that invalidated the NMFS BiOp and RPA and ordered NMFS to prepare a new BiOp. In December 2014, the Court of Appeals issued an opinion that reversed the District Court decision and held that NMFS's BiOp was sufficient and that NMFS's

[80] *The Consolidated Delta Smelt Cases*, E.D. Cal. 1:09-CV-00407-OWW-GSA.
[81] *The Consolidated Salmon Cases*, E.D. Cal. 1:09-CV-1053-OWW-DLB.

adoption of the BiOp was not arbitrary and capricious. Similar to the delta smelt case (above), the Court of Appeals ruled that the Bureau of Reclamation (BOR) must prepare an Environmental Impact Statement under NEPA to evaluate the effects of the NMFS BiOp. To date that NEPA analysis has not been completed. Meanwhile, NMFS, DWR and BOR continue to use the RPA measures as a guideline for restricting SWP and CVP operations to protect listed anadromous.

Consistency Determination Litigation

Because the delta smelt and salmon species that are the subject of the FWS and NMFS BiOps are also protected under the California Endangered Species Act (CESA), the SWP and CVP are required to obtain take authorization for project operations from the California Department of Fish and Wildlife (DFW, formerly Department of Fish and Game). In July 2009 and September 2009, respectively, DFW issued "consistency determinations" which found that SWP and CVP operations do not violate CESA to the extent that such operations are in compliance with the RPAs set forth in the FWS and NMFS BiOps. Because the consistency determinations are issued under state law, and thus could remain in effect even if the federal BiOps were overturned, the State Water Contractors and the Kern County Water Agency filed legal challenges against the consistency determinations. The cases were stayed for years pending the final outcome of *The Consolidated Delta Smelt Cases* and *The Consolidated Salmon Cases*.[82] In late 2015, the legal challenges against the consistency determinations were dismissed, thus generally the RPAs in the federal BiOps serve as the regulatory framework for take authorization under CESA.

Longfin Smelt Protections

Regulatory actions related to longfin smelt also have the potential to affect the availability and reliability of SWP supplies. In February 2008, longfin smelt were listed as a "candidate" species under CESA, and DFW imposed certain interim restrictions on SWP operations for the protection of longfin smelt and its critical habitat. In February 2009, shortly before longfin smelt were officially listed as a "threatened" species under CESA, DFW issued Incidental Take Permit No. 2081-2009-001-03 (the Permit) to DWR, which imposes various terms and conditions on the ongoing and long-term operations of SWP facilities in the Delta. The operating restrictions under the Permit are based in large part on the restrictions imposed on the SWP by the 2008 FWS BiOp for delta smelt (see above). The resulting water supply reductions under the Permit depend on several variable factors, such as Delta hydrology, migratory and reproductive patters of longfin smelt, and other factors

[82] *See*, *e.g.*, *State Water Contractors v. Cal. Dept. of Fish and Game*, Sac. Sup. Ct. Case No. 34-2010-80000552; *State Water Contractors v. Cal. Dept. of Fish and Game*, Sac. Sup. Ct. Case No. 34-2010-80000560.

affecting species abundance in the Delta. Notably, DWR has not indicated whether any particular reductions in SWP exports are likely to result from the Permit. In March 2009, a legal challenge was filed against the Permit.[83] Although that litigation has been currently stayed pursuant to a stipulation of the parties, the challenge puts DFW's ability to enforce the Permit into question.

Development of Delta Plan and Delta Flow Criteria Pursuant to New State Laws

In November 2009, the California Legislature enacted SBx7-1 as part of a comprehensive package related to water supply reliability, ecosystem health, and the Delta.[84] Among other things, SBx7 1 creates the Delta Stewardship Council (Council) and directs the Council to develop a management plan for the Delta by January 1, 2012 (the Delta Plan). In May 2013, the Council approved and certified a Final Programmatic Environmental Impact Report (PEIR) for the proposed Delta Plan. Various agencies and organizations have filed legal challenges against the PEIR. (See, *State Water Contractors et al. v. Delta Stewardship Council*, Sacramento County Superior Court, Judicial Council Coordinated Proceeding No. 4758.) The coordinated challenges allege that the Council exceeded its authority under the Sacramento-San Joaquin Delta Reform Act of 2009 and failed to analyze the Plan's impacts under the California Environmental Quality Act. The court has scheduled a Case Management Conference for September 21, 2015. The litigation is expected to take many years to resolve, and at this point the potential outcome of the litigation or its related effects are too speculative to determine or meaningfully evaluate.

In addition, the State Board was directed to develop flow criteria for the Delta to protect public trust resources, including fish, wildlife, recreation and scenic enjoyment, and DFW was required to identify quantifiable biological objectives and flow criteria for species of concern in the Delta. In August 2010, the State Board adopted Resolution No. 2010-0039 approving its report entitled "Development of Flow Criteria for the Sacramento-San Joaquin Delta Ecosystem" (Flow Criteria). The State Board report concludes that substantially higher flows are needed through the Delta than what has occurred in previous decades in order to benefit zooplankton and various fish species.[85] Separately, in September 2010, DFW issued a draft report entitled "Quantifiable Biological Objectives and Flow Criteria for Aquatic and Terrestrial Species of Concern Dependent on the Delta" (DFW Report). The DFW Report is based on similar biological objectives and recommends Delta flows similar

[83] *See State Water Contractors v. California Dept. of Fish and Game, et al.*, Sac. Sup. Ct. Case No. 34-2009-80000203.
[84] SBX7-1 became effective February 3, 2010 and adds Division 35 to the California Water Code (commencing with Section 85300). Division 35 is referred to as the Sacramento-San Joaquin Delta Reform Act of 2009.
[85] Flow Criteria at 5-8.

to those set forth in the State Board's Flow Criteria.[86] The court held a Case Management Conference on September 21, 2015, at which time the court established hearing dates spanning from January to May 2016 related to the various causes of action in the case. Also of importance, both the State Board and DFW acknowledge that their recommended flow criteria do not have any regulatory or adjudicatory effect, although they may be used to inform the Council as it prepares the Delta Plan, and may be considered as the Bay Delta Conservation Plan (BDCP) process moves forward.[87]

Public Trust Challenge to Delta Exports

In 2010, environmental and fisheries advocates filed suit in Sacramento County Superior Court alleging that water exports from the Delta violate the public trust doctrine and are unconstitutional. (See, *California Water Impact Network v. SWRCB* (Sac. County Sup. Ct. Case No. 34-2010-80000653.) The plaintiffs in that case seek to compel the State Board to adopt and enforce flow, salinity, and temperature standards in the Delta. DWR is also a respondent in the case, and State Water Contractors (SWC) have intervened as parties. DWR and the SWC contend that plaintiffs' claims already have been determined by litigation related to the State Board Water Right Decision 1641 that is now final. In 2011, the United States Bureau of Reclamation, which was named as a real party in interest, filed a statement that it will not waive sovereign immunity. An administrative record has not been submitted and currently there is no activity in the case.

Monterey Plus Litigation

In 2010, the Central Delta Water Agency and others filed suit in Sacramento County Superior Court to invalidate the Monterey Plus EIR and the Monterey Plus Project. (See, *Central Delta Water Agency, et al. v. DWR* (Sac. County Sup. Ct. Case No. 34-2010-80000561.) In April 2012, the court entered an order bifurcating the issues for a series of trials. Phase one, dealing with affirmative defenses based upon statute of limitations, laches, and mootness was tried by the court in November 2012. In January 2013, the court issued its final statement of decision, finding that plaintiffs' second and third causes of action (for reverse validation and mandamus) were untimely. The court also found that challenges to the DWR-KWBA transfer were barred by certain defenses. The hearing on the remaining CEQA cause of action challenging the sufficiency of the 2010 EIR was held in January 2014. The Central Delta I and Rosedale CEQA challenges were consolidated for a combined hearing on the CEQA issues. The court issued its ruling in March 2014, rejecting most of the

[86] DFW Report at 13.
[87] Flow Criteria at 3, 10; DFG Report at ES-4.

plaintiffs' challenges, yet determining that the EIR's discussion of the Kern Water Bank's future impacts requires further analysis. The hearing on the remedies phase related to the analysis of the Kern Water Bank was held in September 2014. The court issued a final ruling in October 2014 requiring decertification of the Monterey Plus Amendment EIR, noting however that DWR is not required to prepare an entirely new EIR and that only the new EIR sections will be subject to challenge. Importantly, prior project approvals are to remain in place and the Kern Water Bank may continue to operate while DWR corrects the EIR. Plaintiffs filed an appeal in December 2014 and the appeal process is in its early stages.

DWR 2017 SWP Final Delivery Capability Report

DWR continues to evaluate the issues affecting SWP exports from the Delta and how those issues may affect the long-term availability and reliability of SWP deliveries to water agencies that hold SWP contracts. As indicated above, in March 2018, DWR released its 2017 SWP Final Delivery Capability Report. According to the 2017 Report, the average delivery of contractual SWP Table A supply is projected to be 62 percent under current conditions.[88] Within that long-term average, SWP Table A deliveries can range from 8 percent (single dry year) to 99 percent (single wet year) of contractual amounts under current conditions.[89] Under current conditions, contractual amounts are projected to range from 28 to 33 percent during multiple-dry year periods, and from 76 to 95 percent during multiple wet periods.[90]

To ensure a conservative analysis, the DWR 2017 Report expressly assumes and accounts for the institutional, environmental, regulatory, and legal factors affecting SWP supplies, including but not limited to: water quality constraints, fishery protections, other D-1641 requirements, and the operational limitations imposed by the FWS and NMFS BiOps that are discussed above. The 2017 Report also considers the potential effects of Delta levee failures and other seismic or flood events.[91] Notably, the 2015 Report assumes that all of these restrictions and limitations will remain in place over the next 20-year period and that no actions to improve the Delta will occur, even though numerous legal challenges, various Delta restoration processes, and new legal requirements for Delta improvements are currently underway (i.e., Bay Delta Conservation Plan, Delta Vision, Delta Plan, etc.). Finally, DWR's long-term SWP delivery reliability analyses incorporate assumptions intended to account for potential supply shortfalls related to global climate change.[92] These

[88] DWR 2017 Final Delivery Capability Report, pp. 25, Table 5-5.
[89] DWR 2017 Final Delivery Capability Report, pp. 24-25, Tables 5-4 and 5-5.
[90] DWR 2015 Final Delivery Capability Report, pp. 25-27, Tables 6-3 and 6-4.
[91] See, e.g., DWR 2017 Final Delivery Capability Report, pp. 10-13.
[92] See, e.g., DWR 2017 Final Delivery Capability Report, pp. 10-13.

and other factors result in DWR presenting an extremely conservative projection of SWP delivery reliability in its 2017 Report.

DWR's most recently published SWP Delivery Capability Report (2017) demonstrates that the projected long-term average delivery amounts of contractual SWP Table A supplies are essentially the same as those projected in the Final 2013 Report (e.g. 62 percent). As noted, the projections developed by DWR are predicated on extremely conservative assumptions, which make the projections useful from a long-range urban water supply planning perspective.[93] While various factors could lead DWR to increase its projections in its next scheduled Report, the 2017 Report remains the best available information concerning the long-term delivery reliability of SWP supplies.

As shown on **Table 4-5** above, even though the DWR 2017 Report demonstrates an average 60 percent delivery reliability for SWP Table A supplies over the next 20-year projection, the 2010 CVWMP is even more conservative in its assumption of 50 percent. Indeed, notwithstanding the 2017 Report, the 2010 CVWMP assumes future SWP Table A deliveries to the Coachella Valley to be only 50 percent of Table A to account for potential water reductions that could occur in the absence of programs to balance Delta environmental concerns and water supply needs, the DWR 2017 Report was not available during the CVWMP preparation.[94] In light of the SWP reliability discussion presented above, in particular the BDCP implementation program, the CVWMP 50 percent reliability assumption is extremely conservative.

4.3.2.3 Surface Water

Surface water flow in the City of Desert Hot Springs consists of ephemeral or intermittent streams that originate in the San Bernardino and Little San Bernardino mountains. Mission Creek is the only stream that flows to the valley floor on a relatively consistent basis, but the stream usually disappears underground a short distance from its entrance into the valley.[95] The District does not use, or plan to use, self-supplied surface water as part of its water supply.

4.3.2.4 Recycled Water

MSWD operates two wastewater treatment facilities that have a combined capacity of 2.18 mgd. Both MSWD wastewater treatment plants use an extended aeration

[93] See, e.g., *Sonoma County Water Coalition v. Sonoma County Water Agency* (2010) 189 Cal.App.4th 33; *Watsonville Pilots Association v. City of Watsonville* (2010) 183 Cal.App.4th 1059; *Vineyard Area Citizens for Responsible Growth v. City of Rancho Cordova* (2007) 40 Cal.4th 412.
[94] 2010 CVWMP Update, Section 4.3.3, SWP Deliveries; see also 2011 SPEIR, pages 3-6 to 3-7.
[95] 2013 MC-GH WMP, p. 4-1

process for treatment and dispose of the secondary wastewater, which is not disinfected, in adjacent percolation/evaporation ponds located within the plant on the southwest (potable water) side of the Mission Creek Fault. In addition, effluent is used for irrigation and maintenance at the treatment plants. The District currently does not have recycled water use within their service area; however, there are plans to use recycled water for the irrigation of golf courses, parks, medians and greenbelts in the future once their Regional Wastewater Treatment Plant is operational.[96]

4.3.2.5 Desalinated Water

Desalination has been identified as a potential solution for increasing water supplies and reducing groundwater overdraft for the Coachella Valley region. However, desalination requires complicated technologies and is a high energy consuming technology. Desalination offers many potential benefits including: increases water supply and reliability during drought periods, reduced dependency on imported supplies by developing a local supply source, protection of public health, and facilitates more recycling and reuse, given the lower salinity of the source. Desalination strategies being considered by the Coachella Valley IRWMP region include: CVWD Agricultural Drain Water Desalination Project, CVWD Desalination Pilot Project, and Desalination of Colorado River Water. However, the District does not currently use self-supplied desalinated water as part of its water supply.[97]

4.3.2.6 Water Transfers and Purchases

The District has not entered into any agreements for the transfer or exchange of water. However, the District cooperates with DWA and Metropolitan for the Desert Water Agency/Coachella Valley Water District (DWCV) SWP Table A Transfer and the DWCV Advance Delivery Program.[98]

4.3.3 Summary of Water Supply Sources

MSWD currently receives 100 percent of its water supply from groundwater production and does not purchase imported water from a water wholesaler. However, CVWD and DWA are remediating the overdraft condition of the groundwater in the Upper Coachella Valley by replenishment with Colorado River and State Water Project (SWP) Exchange Water from Metropolitan. District groundwater meets all Federal and State primary and secondary water quality standards without treatment (other than chlorination for disinfection) with the exceptions that groundwater from Well Nos. 26A, 28, and 34 is treated at each well site to meet the primary water quality

[96] MSWD 2015 UWMP, p. 6-25
[97] MSWD 2015 UWMP, pp. 6-26 to 6-28
[98] MSWD 2015 UWMP, p. 6-28

standard for uranium. Construction of the proposed West Valley Water Reclamation Facility is projected to complete by 2022, with tertiary treatment facilities for recycled water to be included in a subsequent phase and anticipated to accommodate a recycled water demand of 1,120 AFY. District water supplies for 2015 and projected District water supplies through 2040 are shown in **Table 4-9**.[99]

Table 4-9
Current and Projected Water Supplies

Water Supply Source	Additional Detail	Current Water Supply	Projected Water Supply			
		2015	2020	2025	2030	2035
Groundwater	Coachella Valley Basin / District Wells	8,430	9,469	10,508	11,547	12,586
Recycled Water	RWWTP	1,120	2,200	3,600	5,000	6,400
Total:		**9,550**	**11,669**	**14,108**	**16,547**	**18,986**

4.4 Analysis of Water Supply and Demand

As noted herein, the supply and demand analyses for the DHS 109 Project are based in large part on MSWD's 2015 UWMP and the 2013 MC-GH WMP. MSWD's 2015 UWMP was prepared in accordance with the Urban Water Management Planning Act, as most recently amended by SBx7-7. Among other analyses, the MSWD 2015 UWMP and the 2013 MC-GH WMP identified total projected water demands, and demonstrate that total projected water supplies will be sufficient to meet those demands through 2035 and beyond. Also discussed above, the 2013 MC-GH WMP developed the strategies to manage the water resources to meet demands, throughout CVWD's and MSWD's service areas that receive groundwater from the Mission Creek and Garnet Hill Subbasins (including DHS 109), reliably while protecting water quality in a sustainable and cost-effective manner.[100] Although substantial growth has been forecasted for the Coachella Valley, the rate of growth had slowed in the early part of the 2010s due to widespread economic downturn. As described in the 2013 MC-GH WMP, this slowdown will affect growth in the Planning Area in the short-term (next five to ten years), it is likely that growth will resume and steadily continue in the Planning Area during the 35-year planning horizon of the WMP.

As outlined in the Sections above, water conservation is a major component of future water management in the Coachella Valley. As presented above, MSWD is committed

[99] MSWD 2015 UWMP, p. 6-29
[100] 2013 MC-GH WMP, p. 7-28

to reducing their per capita urban water demand in accordance with SBx7-7. The 2013 MC-GH WMP calls for developing additional water conservation programs during the next 30 years. In addition, since the requirements of SBx7-7 do not apply to private producers, CVWD, DWA and MSWD will coordinate with the top private producers in the Planning Area, and offer assistance for making efficient use of the water they extract. MSWD's 2009 Water Efficient Landscape Guidelines establish effective water efficient landscape requirements for newly installed and rehabilitated landscapes and reduce demands.

All water delivered to end users is obtained from the groundwater basin, which is continuously recharged with supplemental imported supplies as discussed above. As provided throughout this WSA, and in the 2013 MC-GH WMP, the managed basin is capable of ensuring a sufficient and sustainable water supply to meet existing water demands and the demands associated with projected growth throughout the region (specifically including MSWD's service area and the proposed DHS 109 Project) during normal, single-dry and multiple-dry periods throughout the 20-year projection and beyond. In addition, CVWD, DWA and MSWD developed many programs to maximize the water resources available to them including recharge of its Colorado River and SWP supplies, recycled water, and various conservation measures, such as tiered water rates, a landscaping ordinance, outreach and education. The 2013 MC-GH WMP and DWA/CVWD replenishment assessment programs, in which MSWD fully participates, establish a comprehensive and managed effort to eliminate the overuse of local groundwater supplies.

The analysis herein evaluates whether the total projected water supplies available to MSWD, by virtue of its membership and participation in the regional efforts of the 2013 MC-GH WMP, are sufficient to meet the water demands of the DHS 109 Project in addition to other existing and planned future uses within MSWD's service area. The supply and demand assessment includes three scenarios over the 20-year projection as required by SB 610: normal water years, single-dry years, and multiple-dry years. As presented in **Section 3**, MSWD's water demands are projected to grow from 7,252 AFY in 2015 to 12,586 AFY in 2040. As shown in **Section 2**, the estimated Project demands are 910 AFY, representing approximately 17 percent of MSWD's projected growth. **Tables 4-10, 4-11, and 4-12** outline the water supply and demand scenarios for normal, single-dry and multiple-dry years respectively. As described in MSWD's 2015 UWMP, District demands for groundwater are estimated to increase by 5 percent during single dry-year and multiple dry-year supply scenarios. Recycled water demands are not projected to increase because recycled water supply is fixed.

Table 4-10
Normal Water Year Supply and Demand Comparison (AFY)

	2015	2020	2025	2030	2035	2040
Supply Totals	7,252	9,550	11,669	14,108	16,547	18,986
Demand Totals	7,252	9,550	11,669	14,108	16,547	18,986
Difference	0	0	0	0	0	0

Table 4-11
Single-Dry Year Supply and Demand Comparison (AFY)

	2015	2020	2025	2030	2035	2040
Supply Totals	7,252	9,972	12,142	14,633	17,124	19,615
Demand Totals	7,252	9,972	12,142	14,633	17,124	19,615
Difference	0	0	0	0	0	0

Table 4-12
Multiple-Dry Year Supply and Demand Comparison (AFY)

		2015	2020	2025	2030	2035	2040
Multiple-Dry Year First Year Supply[1]	**Supply totals**	7,252	9,972	12,142	14,633	17,124	19,615
	Demand totals	7,252	9,972	12,142	14,633	17,124	19,615
	Difference	0	0	0	0	0	0
Multiple-Dry Year Second Year Supply[2]	**Supply totals**	7,252	9,972	12,142	14,633	17,124	19,615
	Demand totals	7,252	9,972	12,142	14,633	17,124	19,615
	Difference	0	0	0	0	0	0
Multiple-Dry Year Third Year Supply[3]	**Supply totals**	7,252	9,972	12,142	14,633	17,124	19,615
	Demand totals	7,252	9,972	12,142	14,633	17,124	19,615
	Difference	0	0	0	0	0	0

4.5 Conclusions

The water supply for the proposed DHS 109 Project will be the Mission Creek Subbasin in the Coachella Valley with supplemental water supplies that are recharged to the Basin on an ongoing basis. Groundwater storage will be used in dry years to support potential differences between demands and supply. The groundwater basin has a capacity of approximately 2.6 million acre-feet and is estimated to contain about 1.4 million acre-feet, simulating the benefits of a very large conjunctive use reservoir. It

is capable of meeting the water demands of the surrounding communities for extended periods during normal, single-dry and multiple-dry year conditions.

As discussed in the 2013 MC-GH WMP and MSWD's 2015 UWMP, and this WSA, CVWD, DWA and MSWD have many programs to maximize the water resources available, including but not limited to recharge of the basin using Colorado River and SWP supplies, direct use and recharge of recycled water, and comprehensive water conservation practices such as tiered water rates, landscaping ordinances, outreach and education. The DWA/CVWD groundwater replenishment programs establish a comprehensive and managed effort to reduce and eliminate overuse of local groundwater resources. These programs allow DWA and CVWD to maintain the groundwater basin as its primary water supply and to recharge the groundwater basin as its other supplies are available and needed to meet existing and projected demands within its overall service areas.

Based on the information, analysis, and conclusions documented in this WSA, substantial evidence exists to support a determination that the total projected water supplies available to MSWD during normal, single dry, and multiple dry water years during a 20-year projection are sufficient to meet the projected water demand associated with the proposed DHS 109 Project, in addition to MSWD's existing and planned future uses, including commercial and industrial uses. This conclusion is based on, among other things, the volume of water available in the regional aquifer, MSWD's current and planned local water management programs and projects, and DWA and CVWD's current and planned local and regional management programs and water supply projects to supplement and sustain regional groundwater supplies. Additionally, MSWD, CVWD, and DWA have committed sufficient resources to further implement the primary elements of the MSWD 2015 UWMP and the 2013 MC-GH WMP, including source substitution, water conservation, and purchases of additional water supplies. Furthermore, as set forth in this WSA and the DHS 109 Industrial Park Project development plans, the Project will incorporate various water conservation elements adopted by MSWD and/or DWA in accordance with SBx7-7. These include conservation elements for indoor and outdoor uses throughout the Project. These efforts may further reduce the ultimate water demands of the Project.

As provided by Water Code section 10914, nothing in this WSA is intended to create a right or entitlement to water service or any specific level of water service, and nothing herein is intended to impose, expand or limit any duty concerning MSWD's obligation to provide certain levels of service to existing or future potential customers.[101] MSWD retains the right, in its sole discretion, to evaluate from time to

[101] Water Code § 10914(a)-(b).

time whether the projected demands associated with the Project continue to fall within MSWD's forecasted demand or planned future uses.

SECTION 5
WATER SUPPLY VERIFICATION

5.1 General

The DHS 109 Project is proposing more than 650,000 square feet of floor area of industrial, manufacturing, or processing plant, or industrial park and is therefore pursuant to the Subdivision Map Act as the requirements of Senate Bill 221. Further discussion can be found in **Section 1.1**.

5.2 Water Source

The Project's industrial water demands are proposed to be provided by groundwater. The Water Supply Verification (WSV) addresses: (1) information included in the MSWD's 2015 UWMP; (2) issues related to groundwater recharge of non-groundwater sources, namely Colorado River water and SWP water; and (3) consideration of the litigation regarding the Quantification Settlement Agreement.

5.3 Supporting Documentation

The WSV relies on MSWD's 2015 UWMP, as permitted by Government Code 66473.7(c).

5.4 Factors of Reliability

5.4.1 General

Government Code 66473.7(a) requires that when determining "sufficient water supply", the following factors be considered:

- The availability of water supply over a historical record of at least 20 years
- The applicability of MSWD's Water Shortage Contingency Analysis that includes actions to be undertaken by the public water system in response to water supply shortages.
- The reduction of water supply to a specific user by ordinance or resolution.
- The reasonable amount of groundwater supply that can be relied upon, considering its natural sources as well as the supporting recharge sources within agreements for Colorado River water and SWP water.

5.4.2 Historical Availability of Supply

MSWD currently receives 100 percent of its water supply from the subbasins within the Coachella Valley Groundwater Basin, which underlies the District's water service area. None of the groundwater basins in the Coachella Valley are adjudicated, therefore, there are no legal agreements limiting MSWD's pumping from any of the subbasins.[102] The District has been dependent upon groundwater as its only source of domestic water supply for several decades. MSWD's 2015 UWMP reviewed the historical use of water in the District. In 2010, MSWD total groundwater production was 8,665 acre-feet and current (2015) groundwater production is at approximately 7,252 acre-feet annually. Deliveries of Colorado River water and MWD SWP transfer water help offset the groundwater use. As of 2015, CVWD receives 378,000 AFY of Colorado River water deliveries under the QSA.[103] In addition, SWP deliveries were 35,000 AFY to the Coachella Valley in 2015 and are expected to remain.

5.4.3 Water Shortage Contingency

The MSWD has developed a Water Shortage Contingency Plan and is discussed in its 2015 UWMP. As detailed in the 2015 UWMP, during water shortages, the District has the ability to meet its demands by applying Water Conservation Stages. These stages impose phases of mandatory reduction of water use up to 50 percent and consist of three stages that help reduce water use within the District's system in order to meet use-reduction targets. The Water Conservation Stages and action is summarized in Table 5-1.

Table 5-1
Water Shortage Contingency Plan

Stage	Percent Supply Reduction	Water Supply Condition
1	10%	Voluntary conservation
1A	10%	Mandatory conservation
2	15%	A threatened water supply shortage which could affect the District's ability to provide water for ordinary domestic and commercial uses. Mandatory conservation
3	50%	A water shortage emergency in which the District may be prevented from meeting the water demands of its customers. Mandatory conservation

[102] MSWD 2015 UWMP, Section 6
[103] CVWD 2015 UWMP, p. 6-12

The General Manager of the District shall monitor supply and demand for water on a daily basis and determine the level of the Water Conservation Stage needed. The Manager shall notify the Board of Directors of the implementation as well as the termination of the stages.

5.4.4 Reduction of Water Supply

There are no expected reductions in the water supply. This is based on, among other things, the volume of water available in the regional aquifer, MSWD's current and planned local water management programs and projects, and DWA and CVWD's current and planned local and regional management programs and water supply projects to supplement and sustain regional groundwater supplies. Additionally, MSWD, CVWD, and DWA have committed sufficient resources to further implement the primary elements of the MSWD 2015 UWMP and the 2013 MC-GH WMP, including source substitution, water conservation, and purchases of additional water supplies.

5.4.5 SWP and Colorado River Water

The Coachella Valley Groundwater Basin has the capacity to meet the Project's needs and future demands presented in MSWD's 2015 UWMP, the 2013 MC-GH WMP, and in this supplemental study. In the event that additional conservation and/or supply limitations are necessary, the Project would adhere to any and all limitations associated with this potential reduction in supply.

5.5 Impacts to Other Projects

The DHS 109 Project is within the projected water demands of MSWD's 2015 UWMP and should not have a significant impact on other potable and non-potable water user. In addition, the Project will not affect the water supply for future housing projects.

The Project will comply with MSWD's Water Efficient Landscaping Guidelines. Based on the findings of the WSV, it is expected that the impacts to the groundwater basin are fully mitigated.

5.6 Rights to Groundwater

None of the groundwater basins in the Coachella Valley are adjudicated, therefore, there are no legal agreements limiting MSWD's pumping from any of the subbasins.[104] The District has been dependent upon groundwater as its only source of domestic

[104] MSWD 2015 UWMP, Section 6

water supply for several decades and can continue to do so for needed supply of the Project.

5.7 Verification

This WSV provides verification that adequate water supply for the Project is available, as required by California Government Code Section 66473.7.

SECTION 6
REFERENCES

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SECTION 7
ACRONYMS AND ABBREVIATIONS

AB	Assembly Bill
AF	Acre Feet
AFY	Acre Feet per Year
APA	Administrative Procedure Act
BDCP	Bay Delta Conservation Plan
BIOps	Biological Opinions
BOR	Bureau of Reclamation
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
CIP	Capital Improvement Plan
CR	Colorado River
CRA	Colorado River Aqueduct
CUWCC	California Urban Water Conservation Council
CVAG	Coachella Valley Association of Governments
CVP	Central Valley Project
CVRWMG	Coachella Valley Regional Water Management Group
CVSC	Coachella Valley Stormwater Channel
CVWD	Coachella Valley Water District
CVWMP	Coachella Valley Water Management Plan
CWA	Coachella Water Authority
CWC	California Water Code
DFW	Department of Fish and Wildlife
DMM	Demand Management Measures
DWR	Department of Water Resources
EIS	Environmental Impact Statement
ESA	Endangered Species Act
FWS	Fish and Wildlife Service
GPCD	Gallons per Capita per Day
GPD	Gallons per Day
GPM	Gallons per Minute
HDR	High Density Residential
ID	Improvement District
IID	Imperial Irrigation District
IRWMP	Integrated Regional Water Management Plan
IWA	Indio Water Authority
LAFCO	Local Agency Formation Commission
LDR	Low Density Residential
MCL	Maximum Contaminant Limit
MDR	Medium Density Residential

MG	Million Gallons
MGD	Million Gallons per Day
MOU	Memorandum of Understanding
MU	Mixed Use
MVP	Mid-Valley Pipeline
MWD	Metropolitan Water District
NEPA	National Environmental Policy Act
NMFS	National Marine Fisheries Service
PEIR	Programmatic Environmental Impact Report
PPR	Present Perfected Rights
PVID	Palo Verde Irrigation District
PWS	Public Water System
QSA	Quantification Settlement Agreement
RAC	Replenishment Assessment Charge
RCTLMA	Riverside County Transportation and Land Management Agency
RO	Reverse Osmosis
RPA	Reasonable and Prudent Alternative
RUWMP	Regional Urban Water Management Plan
RV	Recreational Vehicle
SB	Senate Bill
SCADA	Supervisory Control and Data Acquisition
SCAG	Southern California Association of Governments
SCH	State Clearinghouse
SDCWA	San Diego County Water Authority
SOI	Sphere of Influence
SPEIR	Subsequent Programmatic Environment Impact Report
SWP	State Water Project
SWRCB	State Water Resources Control Board
UWMP	Urban Water Management Plan
VLDR	Very Low Density Residential
VSD	Valley Sanitary District
WRP	Water Reclamation Plant
WSA	Water Supply Assessment
YCWA	Yuba County Water Agency

Appendix K

Soboba Standard Tribal Conditions

Standard Environmental / Tribal Mitigation Conditions

1. The applicant/developer shall adhere to all mitigation measures and monitoring program requirements mandated by the City of Desert Hot Springs.

2. If the project involves any ground disturbance Applicant / Developer shall hire a paleontological monitor and shall be responsible for payment of all related expenses. If paleontological resources are encountered, adequate funding shall be provided to collect, curate and report on these resources to ensure the values inherent in the resources are adequately characterized and preserved.

3. The applicant/developer shall provide tribe(s) which have initiated formal consultation under AB 52 the following:
   a) Cultural resources inventory of the project area (by a qualified archaeologist) prior to any development activities in the area.
   b) Copy of the records search with associated survey reports and site records from the information center.
   c) Copies of any cultural resource documentation (report and site records) generation in connection with this project.

4. The applicant/developer shall have on site during any ground disturbing activities (including archeological surveys) a designated Cultural Resource / Tribal Monitor(s) from the consulting tribe(s) which have initiated formal consultation under AB 52. Should buried cultural resource be encountered, the Monitor(s) may request that desiccative construction halt and the Monitor(s) shall notify a Qualified Archeologist to investigate and, if necessary, prepare a mitigation plan for submission to the State Historic Preservation Officer and each of the consulting Tribal Preservation Office's.

5. In the event that human remains (or remains that may be human) are discovered at the project site during grading or earthmoving, the construction contractors, project archaeologist, and/or designated Native American Monitor(s) shall immediately stop all activities within 100 feet of the find. The project proponent shall then inform the Riverside County Coroner and the City of Desert Hot Springs immediately, and the coroner shall be permitted to examine the remains as required by California Health and Safety Code Section 7050.5(b). Section 7050.5 requires that excavation be stopped in the vicinity of discovered human remains until the coroner can determine whether the remains are those of a Native American. If human remains are determined as those of Native American origin, the applicant shall comply with the state relating to the disposition of Native American burials that fall within the jurisdiction of the NAHC (PRC Section 5097). The coroner shall contact the NAHC to determine the most likely descendant(s). The MLD shall complete his or her inspection and make recommendations or preferences for treatment within 48 hours of being granted access to the site. The Disposition of the remains shall be overseen by the most likely descendant(s) to determine the most appropriate means of treating the human remains and any associated grave artifacts. The specific locations of Native American burials and reburials will be proprietary and not disclosed to the general public. The County Coroner will notify the Native American Heritage Commission in accordance with California Public Resources Code 5097.98. According to California Health and Safety Code, six or more human burials at one location constitute a cemetery (Section 8100), and disturbance of Native American cemeteries is a felony (Section 7052) determined in consultation between the project proponent and the MLD. In the event that the project proponent and the MLD are in disagreement regarding the disposition of the remains, State law will apply and the median and decision process will occur with the NAHC (see Public Resources Code Section 5097.98(e) and 5097.94(k)).

6. **MM 1 - Prior to grading permit issuance:** If there are any changes to project site design and/or proposed grades, the Applicant shall contact the consulting tribes to provide an electronic copy of the revised plans for review. Additional consultation shall occur between the City of Desert Hot Springs, Applicant, and consulting tribes to discuss the proposed changes and to review any new impacts and/or potential avoidance/preservation of the cultural resources on the Project. The Applicant will make all attempts to avoid and/or preserve in place as many as possible of the cultural resources located on the project site if the site design and/or proposed grades should be revised in consult with the City of Desert Hot Springs. In specific circumstances where existing and/or new resources are determined to be unavoidable and/or unable to be preserved in place despite all feasible alternatives, the developer shall make every effort to relocate the resource to a nearby open space or designated location on the property that is not subject any future development, erosion or flooding.

7. **Archaeological Monitoring:** The Developer, the City and the consulting tribe(s) shall develop an archaeological monitoring plan to address details, timing and responsibilities of all archaeological activities that will occur at the project site, when it is determined by either the city or the consulting tribe(s) to be necessary. Details of the plan may include:
   a) Project grading and development scheduling;
   b) The development of a rotating or simultaneous schedule in coordination with the applicant and the Project Archeologist for designated Native American Tribal Monitors from the consulting tribes during grading, excavation and ground disturbing activities on the site: including the scheduling, safety requirements, duties, scope of work, and Native American Tribal Monitors' authority to stop and redirect grading activities in coordination with all Project archaeologists;
   c) The protocols and stipulations that the Developer, City of Desert Hot Springs, the consulting tribes and Project archaeologist will follow in the event of inadvertent cultural resources discoveries, including any newly discovered cultural resource deposits that shall be subject to a cultural resources evaluation;
   d) Archaeological Monitoring Plan shall take into account the potential impacts to undiscovered buried archaeological and cultural resources and procedures to protect in place and/or mitigate such impacts.

8. **MM 3 - Treatment and Disposition of Cultural Resources:** In the event that Native American cultural resources, items of cultural patrimony, or Tribal Cultural Resources are inadvertently discovered during the course of grading for this Project. The following procedures will be carried out for treatment and disposition of the discoveries:
   a) Temporary Curation and Storage: During the course of construction, all discovered resources shall be temporarily curated in a secure location onsite or at the offices of the project archaeologist. The removal of any artifacts from the project site will need to be thoroughly inventoried with tribal monitor oversite of the process; and
   b) Treatment and Final Disposition: The landowner(s) shall relinquish ownership of all cultural resources, including sacred items, burial goods, and all archaeological artifacts and non-human remains as part of the required mitigation for impacts to cultural resources. The applicant shall relinquish the artifacts through one or more of the following methods and provide the City of Desert Hot Springs with evidence of same:
      i. Accommodate the process for onsite reburial of the discovered items with the consulting Native American tribes or bands. This shall include measures and provisions to protect the future reburial area from any future impacts. Reburial shall not occur until all cataloguing and basic recordation have been completed;

ii. A curation agreement with an appropriate qualified repository within Riverside County that meets federal standards per 36 CFR Part 79 and therefore would be professionally curated and made available to other archaeologists/researchers for further study. The collections and associated records shall be transferred, including title, to an appropriate curation facility within Riverside County, to be accompanied by payment of the fees necessary for permanent curation:

iii. For purposes of conflict resolution, if more than one Native American tribe or band is involved with the project and cannot come to an agreement as to the disposition of cultural materials, they shall be curated at the Western Science Center or Agua Caliente Cultural Museum.

At the completion of grading, excavation and ground disturbing activities on the site a Phase IV Monitoring Report shall be submitted to the City of Desert Hot Springs documenting monitoring activities conducted by the project Archaeologist and Native Tribal Monitors within 60 days of completion of grading. This report shall document the impacts to the known resources on the property; describe how each mitigation measure was fulfilled; document the type of cultural resources recovered and the disposition of such resources; provide evidence of the required cultural sensitivity training for the construction staff held during the required pre-grade meeting; and, in a confidential appendix, include the daily/weekly monitoring notes from the archaeologist. All reports produced will be submitted to the consulting tribes and Eastern Information Center and interested tribes

Appendix L

Consultation Summary

November 19, 2020
21228

On May 6, 2020, AB 52 notification letters were sent to 13 Native American tribal governments or designated tribal representatives via certified mail. Of the 13 tribes or tribal representatives (in some cases multiple letters were sent to representatives of the same tribe), two responses were received.

Responses and consultation requests were received from the following tribes:

- Soboba Band of Luiseño Indians (May 28, 2020): A letter was received from Mr. Joseph Ontiveros to request consultation. An email was received from Ms. Jessica Valdez from the Tribe to request consultation for another project on August 17, 2020. A follow up and dates of availability were sent on August 21, 2020. It was agreed that the consultation call will include a discussion of the other projects that the Tribe received notification for in the earlier months. Mr. Ontiveros submitted a response on September 24, 2020 to initiate formal consultation. On September 28, 2020, Mr. Ontiveros received a date and time of availability. A conference call was scheduled with Joseph Ontiveros to discuss the project, along with other projects that the Tribe received in the earlier months. This call was scheduled on October 6, 2020 due to the limitations from the pandemic. On October 14, 2020, Mr. Ontiveros forwarded the proposed standard environmental/tribal mitigation conditions. The proposed standard environmental/tribal mitigation conditions received would be relevant to the other projects in process with the City. The language was forwarded to the Agua Caliente Band of Cahuilla Indians for comment on October 16, 2020. Receiving no comments from the Agua Caliente Band of Cahuilla Indians, Mr. Ontiveros was notified on October 29, 2020 that no comments have been received. On November 9, 2020, a letter was sent to Mr. Ontiveros to confirm the consultation process is concluded.
- Agua Caliente Band of Cahuilla Indians (July 15, 2020): The Tribe stated that the project area is not located within the boundaries of the ACBCI Reservation but is within the Tribe's Traditional Use Area. The Agua Caliente Band of Cahuilla Indians requested formal government to government consultation and requested any prepared technical reports and data regarding the project such as a cultural resources inventory, a copy of the records search with associated survey reports and site records, copies of reports and site records, and requested the presence of an approved Agua Caliente Native American Cultural Resources Monitor during ground disturbing activities (including archaeological testing and surveys). A conference call was scheduled with Pattie Garcia-Plotkin to discuss the project, along with other projects that the Tribe received in the earlier months. This call was scheduled on September 23, 2020 due to the limitations from the pandemic. Ms. Plotkin indicated that the Tribe would provide recommendations in writing regarding the appropriate mitigation language to address their concerns. In addition to a follow up request being sent to Ms. Plotkin on October 9, 202, a copy of the proposed standard environmental/tribal mitigation conditions from Joseph Ontiveros from the Soboba Band of Luiseno Indians also was provided to Ms. Plotkin on October 16, 2020 for review and comment. On October 23, 2020, the Tribe reviewed the documents and have provided the following comments:
    - At this time the concerns of the ACBCI THPO have been addressed and proper mitigation measures have been proposed to ensure the protection of tribal cultural resources. This letter shall conclude our AB52 consultation efforts.
    - Before ground disturbing activities begin please contact the Tribal Historic Preservation Office at ACBCI-THPO@aguacaliente.net to arrange cultural monitoring.

Pursuant to PRC 21080.3.1(d), each tribal government or representative was given 30 days upon receipt of the AB 52 notification letter to provide a request for consultation on the Project. Two of the 13 tribal representatives responded to the initial notification letter, with two requesting consultation and additional reports. No additional responses or requests were received. The City of Desert Hot Springs, as lead agency, has fulfilled its obligations under AB 52 to engage in tribal consultation with all other tribal governments.

Appendix M

Mitigation Monitoring and Reporting Program

MITIGATION MONITORING AND REPORTING PROGRAM

This Mitigation Monitoring and Reporting Program (MMRP) identifies mitigation measures incorporated into the Initial Study/Mitigated Negative Declaration (IS/MND) for the Church at the Red Door Project (Project). For each mitigation measure, the MMRP identifies the mitigation measure, the implementation entity, the timing for implementation, and the date of completion with sign-off for verification purposes.

MITIGATION MONITORING AND REPORTING PROGRAM

	Mitigation Measure	Implementation Entity	Timing for Implementation	Date of Completion/ Initials
Air Quality				
AQ-1	Architectural coatings applied to project buildings are to be limited to 30 grams per liter VOC and traffic paints shall be limited to 100g/L VOC content	Project Proponent/ Construction Contractor	Prior to the issuance of a Building Permit.	
Biological Resources				
BIO-1	A burrowing owl relocation plan shall be prepared and approved by the CDFW to passively relocate the BUOW. In addition, compensatory mitigation as per the CVMSHCP would be required for the loss of occupied habitat. The CVMSHCP requires 6 acres per pair.	Project Proponent/ Construction Contractor/ Biologist	Prior to Construction (at least 14 days prior to and within 24 hours immediately before ground disturbing activities)	
BIO-2	Due to appropriate habitat and confirmed presence on the project site recorded in the CNDDB from 2006, preconstruction surveys during the growing season for the Coachella Valley milk-vetch shall be conducted prior to any earth work activities.	Project Proponent/ Construction Contractor/ Biologist	Prior to Construction (no more than 14 days prior to initiation of ground disturbance	

	Mitigation Measure	Implementation Entity	Timing for Implementation	Date of Completion/ Initials
			and vegetation removal activities)	
BIO-3	Bird nesting season generally extends from February 1 through September 15 in southern California and specifically, April 15 through August 31 for migratory passerine birds. To avoid impacts to nesting birds (common and special status) during the nesting season, a qualified Avian Biologist will conduct pre-construction Nesting Bird Surveys (NBS) prior to project-related disturbance to nest able vegetation to identify any active nests. If no active nests are found, no further action will be required. If an active nest is found, the qualified Avian Biologist will set appropriate no-work buffers around the nest which will be based upon the nesting species, its sensitivity to disturbance, nesting stage and expected types, intensity and duration of disturbance. The nests and buffer zones shall be field checked weekly by a qualified biological monitor. The approved no-work buffer zone shall be clearly marked in the field, within which no disturbance activity shall commence until the qualified biologist has determined the young birds have successfully fledged and the nest is inactive.	Project Proponent/ Construction Contractor/ Biologist	Prior to Construction (no more than 14 days prior to initiation of ground disturbance and vegetation removal activities)	
BIO-4	The Applicant shall pay a fee for the impacts of development on covered species and their habitats to the City to be used by the Coachella Valley Conservation Commission (CVCC) to minimize and mitigate impacts of taking and provide for conservation of the covered and non-covered species through the acquisition and maintenance of habitat.	Project Proponent/ Construction Contractor/ Biologist	Prior to Construction (no more than 14 days prior to initiation of ground disturbance and vegetation removal activities)	

	Mitigation Measure	Implementation Entity	Timing for Implementation	Date of Completion/ Initials
BIO-5	The applicant shall implement the following CVMSHCP Land Use Adjacency Guidelines requirements and restrictions as listed below and shall be adhered to during construction and for post construction operation for any project within the project site that lies adjacent to Conservation Areas. The project proponent shall coordinate with the Coachella Conservation Commission (CVCC) and CVCC staff shall review plans for all planning areas adjacent to the Conservation Area and determine whether the proposed improvements are consistent with the CVMSHCP. 1) *Drainage* – Proposed Development adjacent to or within a Conservation Area shall incorporate plans to ensure that the quantity and quality of runoff discharged to the adjacent Conservation Area is not altered in an adverse way when compared with existing conditions. Stormwater systems shall be designed to prevent the release of toxins, chemicals, petroleum products, exotic plant materials or other elements that might degrade or harm biological resources or ecosystem processes within the adjacent Conservation Area. 2) *Toxics* – Land uses proposed adjacent to or within a Conservation Area that use chemicals or generate byproducts such as manure that are potentially toxic or may adversely affect wildlife and plant species, Habitat, or water quality shall incorporate measures to ensure that application of such chemicals does not result in any discharge to the adjacent Conservation Area. 3) *Lighting* – For proposed Development adjacent to or within a Conservation Area, lighting shall be shielded and directed	Project Proponent/ Construction Contractor/ Biologist	Prior to Construction (no more than 14 days prior to initiation of ground disturbance and vegetation removal activities)	

Mitigation Measure	Implementation Entity	Timing for Implementation	Date of Completion/ Initials
toward the developed area. Landscape shielding or other appropriate methods shall be incorporated in project designs to minimize the effects of lighting adjacent to or within the adjacent Conservation Area in accordance with the guidelines to be included in the Implementation Manual. 4) *Noise* – Proposed Development adjacent to or within a Conservation Area that generates noise in excess of 75 dBA Leq hourly shall incorporate setbacks, berms, or walls, as appropriate, to minimize the effects of noise on the adjacent Conservation Area in accordance with guidelines to be included in the Implementation Manual. 5) *Invasive* – Invasive, non-native plant species shall not be incorporated in the landscape for land uses adjacent to or within a Conservation Area. Landscape treatments within or adjacent to a Conservation Area shall incorporate native plant materials to the maximum extent feasible; recommended native species are listed in Table 4-112. The plants listed in Table 4-113 shall not be used within or adjacent to or within a Conservation area. The list may be amended from time to time through a Minor Amendment with Wildlife Agency Concurrence. 6) *Barriers* –Land uses adjacent to or within a Conservation Area shall incorporate barriers in individual project designs to minimize unauthorized public access, domestic animal predation, illegal trespass, or dumping in a Conservation Area. Such barriers may include native landscaping, rocks/boulders, fencing, walls and/or signage.			

	Mitigation Measure	Implementation Entity	Timing for Implementation	Date of Completion/ Initials
	7) *Grading/Land Development* –Manufactured slopes associated with site Development shall not extend into adjacent land in a Conservation Area			
BIO-6	A site specific final acoustical analysis is required once a final site specific site plan is made available in order to demonstrate compliance with the CVMSCHP noise threshold. If the results of the acoustical analysis conclude that proposed development will exceed acceptable noise levels, the proposed development project shall be redesigned to ensure consistency with the CVMSHCP Adjacency noise requirements.	Project Proponent/ Construction Contractor/ Biologist	Prior to Construction (no more than 14 days prior to initiation of ground disturbance and vegetation removal activities)	
Cultural Resources				
CR-1	If during the course of excavation, grading or construction, artifacts or other archaeological resources are discovered, all work in the immediate area of the find shall be halted and the project proponent or his/her designee shall immediately notify the City Planner. A qualified archaeologist shall be present on site during initial ground disturbing activities at the expense of the project proponent. In addition, the archaeologist should monitor the first day and provide a recommendation on further monitoring once subsurface strata is visible. If evaluated as eligible and the find cannot be avoided, the archaeologist must prepare and submit a data recovery plan to the City Planner. Upon approval, the data recovery plan shall be implemented. Work shall resume after consultation with the City and implementation of the recovery plan by the archaeologist.	Project Proponent/ Construction Contractor/ Architectural Historian	Final Design Phase/Prior to Construction	

	Mitigation Measure	Implementation Entity	Timing for Implementation	Date of Completion/ Initials
CR-2	If human remains are uncovered during excavation or grading activities on the project site, there shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent human remains until: A) The Riverside County Coroner and Desert Hot Springs Police Department have been contacted and determined that no investigation of the cause of death is required, and B) If the coroner determines the remains to be Native American: The coroner shall contact the NAHC within 24 hours. The NAHC shall designate the person or persons it believes to be the MLD of the decreased Native American. The MLD may make recommendations to the landowner or person responsible for the excavation work, for means of treating or disposing of, with appropriate dignity, the human remains and any associated grave goods as provided in Public Resources Code Section 5097.98. The City and developer shall work with the designated MLD to determine the final disposition of the remains.	Project Proponent/ Construction Contractor/ Architectural Historian	Final Design Phase/Prior to Construction	
Geology and Soils				
GEO-1	All phases of project development that include earthwork in regard to Foundation Design, Settlements, Lateral Design, Retaining Walls, Expansive Soils, Concrete Slabs-on-Grade, and General Site Grading shall be performed in accordance with the geotechnical recommendations presented in the *Geotechnical Investigation* prepared by Sladden Engineering, as applicable.	Project Proponent/ Construction Contractor	Final Design and Construction	
GEO-2	All proposed structures shall be engineer designed and constructed to earthquake-resistant parameters in compliance with the 2016 edition of the California Building Code (CBC).	Project Proponent/ Construction Contractor/	Pre-Construction and Construction (during ground disturbing	

	Mitigation Measure	Implementation Entity	Timing for Implementation	Date of Completion/ Initials
		Paleontological Monitor	activities exceeding three feet)	
GEO-3	In the event that a fossil discovery is made during the course of project construction, in accordance with the SVP guidelines, a qualified professional Paleontologist must be retained in order to examine the find and determine if further paleontological resources mitigation is warranted. Recovered specimens must be identified and curated at a repository with permanent retrievable storage that would allow for further research in the future.	Project Proponent/ Construction Contractor/ Paleontological Monitor	Pre-Construction and Construction (during ground disturbing activities exceeding three feet)	
Hazards and Hazardous Materials				
HAZ-1	Prior to issuance of Certificate of Occupancy, the project applicant that proposes to recycle onsite wastewater involving the use of a reverse osmosis (RO) wastewater purification system shall provide the City with information on how concentrated levels of TDS and brine solutions will be disposed of. Proof of contract with a license hazardous waste hauler that will be responsible for removing all hazardous wastewater and solid waste generated at the cultivation site will be required.	Project Proponent / Construction Contractor/Environmental Monitor	Pre-construction and during construction: Prior to and during ground disturbing activities.	
HAZ-2	Any individual project site activity that proposes the use and storage of hazardous materials that exceeds the criteria threshold quantity per HSC standards, shall prepare a Hazardous Materials Business Emergency Plan (HMBEP) to be reviewed and approved by Riverside County Fire Department and the Department of Environmental Health (DEH). The HMBEP shall be posted in a visible location of the project premises and shall list all hazardous materials to be used onsite in a documented Material Safety Data Sheet (MSDS). The HMBEP shall include a training program to instruct employee staff of the methods for the safe handling of hazardous materials, address emergency coordination, proper use of	Project Proponent / Construction Contractor/Environmental Monitor	Pre-construction and during construction: Prior to and during ground disturbing activities.	

Mitigation Measure		Implementation Entity	Timing for Implementation	Date of Completion/ Initials
	protective equipment and abatement procedures in the event of an accidental spill or release of hazardous materials and provide an evacuation plan for employee staff in the event of any emergency. The HMBEP shall include a Spill Prevention and Countermeasure Plan (SPCC) to address procedures and protocol for staff employees to exercise in the event of an accidental spill or release of hazardous materials. The SPCC shall also include a required Spill Prevention Containment Kit to be utilized and easily visible and accessible to employee staff in the event of an accidental spill of hazardous materials. All individual project site activities will adhere to SB 95 Section 140 Section 11362.775 when utilizing volatile solvents for manufacturing concentrated cannabis.			
Hydrology and Water Quality				
HYD-1	In order to protect the project site from flooding caused by Mission Creek during the 100-year storm event, the perimeter wall along the west side of Street "F", from 15th Street down to 16th Street, will be designed to accommodate a combination of flood wall and screen wall. Conversely, the perimeter wall along the east side of Atlantic Avenue, from 15th Street down to the southerly limit of Lot 33 will be designed to accommodate a combination of flood wall and screen wall. The actual height of the flood wall along the depth of the footing will be determined during the final design phase of this project.	Project Proponent / Construction Contractor	Pre-construction and during construction: Prior to the issuance of building permits and during project construction.	
Noise				
NOI-1	The proposed project will adhere to the following measures to reduce construction noise and vibration: • During all project site excavation and grading on-site, construction contractors shall equip all construction equipment, fixed or mobile, with properly operating and	Project Proponent/ Construction Contractor	During Construction	

	Mitigation Measure	Implementation Entity	Timing for Implementation	Date of Completion/ Initials
	maintained mufflers, consistent with manufacturer standards. • The contractor shall place all stationary construction equipment so that emitted noise is directed away from the noise sensitive receptors nearest the project site. • Equipment shall be shut off and not left to idle when not in use. • The contractor shall locate equipment staging in areas that will create the greatest distance between construction-related noise/vibration sources and sensitive receptors nearest the project site during all project construction. • Jackhammers, pneumatic equipment and all other portable stationary noise sources shall be shielded and noise shall be directed away from sensitive receptors.			
Transportation				
TIA-1	The proposed project will construct the following offsite intersections improvements to achieve acceptable LOS during peak hours for the impacted study area intersections for Existing Plus Project and Existing Plus Ambient (2021) Plus Project traffic conditions: **Existing Plus Project Offsite Improvements** • No. 3 – Indian Canyon Drive at Dillon Road ○ Install traffic signal (signal warrant currently satisfied under Existing conditions)	Project Proponent/ Construction Contractor	During construction	

	Mitigation Measure	Implementation Entity	Timing for Implementation	Date of Completion/ Initials
	○ Provide northbound left turn lane ○ Provide southbound left turn lane ○ Provide eastbound left turn lane ○ Provide westbound left turn lane • No. 9 – Little Morongo Road at 15th Avenue ○ Install traffic signal ○ Provide southbound left turn lane ○ Provide westbound left turn lane ○ Provide westbound right turn lane • No. 14 – Palm Drive at Two Bunch Palms Trail ○ Provide eastbound right-turn overlap phasing • No. 17 – Palm Drive at Dillon Road Provide eastbound right-turn overlap phasing			
TIA-2	**Existing Plus Ambient (2021) Plus Project Offsite Improvements** • No. 3 – Indian Canyon Drive at Dillon Road ○ Install traffic signal (signal warrant currently satisfied under Existing conditions) ○ Provide northbound left turn lane ○ Provide southbound left turn lane ○ Provide eastbound left turn lane ○ Provide westbound left turn lane	Project Proponent/ Construction Contractor	During construction	

	Mitigation Measure	Implementation Entity	Timing for Implementation	Date of Completion/ Initials
	• No. 9 – Little Morongo Road at 15th Avenue o Install traffic signal o Provide southbound left turn lane o Provide westbound left turn lane o Provide westbound right turn lane • No. 14 – Palm Drive at Two Bunch Palms Trail o Provide eastbound right turn overlap phasing • No. 17 – Palm Drive at Dillon Road o Provide eastbound right turn overlap phasing			
TIA-3	**Existing Plus Ambient (2021) Plus Project Plus Cumulative Offsite Improvements** • No.2 – Indian Canyon Drive at Pierson Boulevard o Install traffic signal (signal warrant currently satisfied under Existing conditions) o Provide northbound left turn lane o Provide southbound left turn lane o Provide eastbound left turn lane o Provide westbound left turn lane • No. 3 – Indian Canyon Drive at Dillon Road o Install traffic signal (signal warrant currently satisfied under Existing conditions)	Project Proponent/ Construction Contractor	During construction	

Mitigation Measure	Implementation Entity	Timing for Implementation	Date of Completion/ Initials
○ Provide northbound left turn lane ○ Provide northbound right turn lane with overlap phasing ○ Provide southbound left turn lane ○ Provide southbound right turn lane ○ Provide eastbound left turn lane ○ Provide eastbound right turn lane ○ Provide two westbound left turn lanes • No. 7 – Little Morongo Road at Pierson Boulevard ○ Install traffic signal ○ Provide northbound left turn lane ○ Provide southbound left turn lane ○ Provide eastbound left turn lane ○ Provide westbound left turn lane • No. 8 – Little Morongo Road at Two Bunch Palms Trail ○ Install traffic signal (signal warrant currently satisfied under Existing conditions) ○ Provide northbound left turn lane ○ Provide northbound right turn lane ○ Provide southbound left turn lane ○ Provide eastbound left turn lane ○ Provide two westbound left turn lanes			

Mitigation Measure	Implementation Entity	Timing for Implementation	Date of Completion/ Initials
• No. 9 – Little Morongo Road at 15th Avenue ○ Install traffic signal ○ Provide southbound left turn lane ○ Provide westbound left turn lane ○ Provide westbound right turn lane ○ Provide second northbound through lane • No. 10 – Little Morongo Road at Dillon Road ○ Install traffic signal (signal warrant currently satisfied under Existing conditions) ○ Provide northbound left turn lane ○ Provide southbound left turn lane ○ Provide second eastbound left turn lane ○ Provide westbound right turn lane • No. 11 – Atlantic Avenue at Dillon Road ○ Restrict southbound left turn • No. 14 – Palm Drive at Two Bunch Palms Trail ○ Provide second northbound left turn lane ○ Provide third southbound through lane ○ Provide eastbound right turn overlap phasing • No. 16 – Palm Drive at Camino Aventura ○ Install traffic signal (signal warrant currently satisfied under Existing conditions)			

	Mitigation Measure	Implementation Entity	Timing for Implementation	Date of Completion/ Initials
	• No. 17 – Palm Drive at Dillon Road ○ Provide third southbound through lane ○ Provide southbound right turn overlap phasing Provide eastbound right turn overlap phasing			
TIA-4	The project proponent will contribute on a fair share basis through the City's Development Impact Fee Circulation Systems Streets, Traffic Signals, and Bridges Program, or in dollar equivalent in lieu mitigation contributions, in the implementation of recommended improvements.	Project proponent	Pre-construction: Prior to issuance of building permit	
Tribal Cultural Resources				
TBL-1	**Prior to grading permit issuance:** If there are any changes to project site design and/or proposed grades, the Applicant shall contact the consulting tribes to provide an electronic copy of the revised plans for review. Additional consultation shall occur between the City of Desert Hot Springs, Applicant, and consulting tribes to discuss the proposed changes and to review any new impacts and/or potential avoidance/preservation of the cultural resources on the Project. The Applicant will make all attempts to avoid and/or preserve in place as many as possible of the cultural resources located on the project site if the site design and/or proposed grades should be revised in consult with the City of Desert Hot Springs. In specific circumstances where existing and/or new resources are determined to be unavoidable and/or unable to be preserved in place despite all feasible	Project Proponent/ Construction Contractor	Prior to the issuance of a Grading Permit for any earth-moving operations.	

Mitigation Measure	Implementation Entity	Timing for Implementation	Date of Completion/ Initials
alternatives, the developer shall make every effort to relocate the resource to a nearby open space or designated location on the property that is not subject any future development, erosion or flooding. **Tribal Monitoring:** The Developer, the City of Desert Hot Springs,the Agua Caliente Tribe of Cahuilla Indians, and the Saboba Tribe of Luiseño Indians shall develop an Tribal Monitoring plan to address details, timing and responsibilities of all monitoring activities that will occur at the project site, when it is determined by either the city or the consulting tribe(s) to be necessary. Details of the plan may include: a) Project grading and development scheduling; b) The development of a rotating or simultaneous schedule in coordination with the applicant and the designated Native American Tribal Monitors from both the Agua Caliente Tribe of Cahuilla Indians, and the Saboba Tribe of Luiseño Indians during grading, excavation and ground disturbing activities on the site: including the scheduling, safety requirements, duties, scope of work, and Native American Tribal Monitors' authority to stop and redirect grading activities in coordination with all Tribal Representatives; c) The protocols and stipulations that the Developer, City of Desert Hot Springs, the consulting tribes will follow in the event of inadvertent tribal/cultural resources			

	Mitigation Measure	Implementation Entity	Timing for Implementation	Date of Completion/ Initials
	discoveries, including any newly discovered cultural resource deposits that shall be subject to a tribal/cultural resources evaluation; d) The Tribal/Cultural Monitoring Plan shall take into account the potential impacts to undiscovered buried archaeological and cultural resources and procedures to protect in place and/or mitigate such impacts.			
TBL-2	**Treatment and Disposition of Cultural Resources:** In the event that Native American cultural resources, items of cultural patrimony, or Tribal Cultural Resources are inadvertently discovered during the course of grading for this Project. The following procedures will be carried out for treatment and disposition of the discoveries: a) Temporary Curation and Storage: During the course of construction, all discovered resources shall be temporarily curated in a secure location onsite or at the offices of the project archaeologist. The removal of any artifacts from the project site will need to be thoroughly inventoried with tribal monitor oversite of the process; and b) Treatment and Final Disposition: The landowner(s) shall relinquish ownership of all cultural resources, including sacred items, burial goods, and all archaeological artifacts and non-human remains as	Project Proponent/ Construction Contractor	Prior to the issuance of a Grading Permit for any earth-moving operations.	

Mitigation Measure	Implementation Entity	Timing for Implementation	Date of Completion/ Initials
part of the required mitigation for impacts to cultural resources. The applicant shall relinquish the artifacts through one or more of the following methods and provide the City of Desert Hot Springs with evidence of same: i. Accommodate the process for onsite reburial of the discovered items with the consulting Native American tribes or bands. This shall include measures and provisions to protect the future reburial area from any future impacts. Reburial shall not occur until all cataloguing and basic recordation have been completed; ii. A curation agreement with an appropriate qualified repository within Riverside County that meets federal standards per 36 CFR Part 79 and therefore would be professionally curated and made available to other archaeologists/researchers for further study. The collections and associated records shall be transferred, including title, to an appropriate curation facility within Riverside County, to be accompanied by payment of the fees necessary for permanent curation: iii. For purposes of conflict resolution, if more than one Native American tribe or band is involved with the project and cannot come to			

Mitigation Measure	Implementation Entity	Timing for Implementation	Date of Completion/ Initials
an agreement as to the disposition of cultural materials, they shall be curated at the Western Science Center or Agua Caliente Cultural Museum. At the completion of grading, excavation and ground disturbing activities on the site a Phase IV Monitoring Report shall be submitted to the City of Desert Hot Springs documenting monitoring activities conducted by the project Archaeologist and Native Tribal Monitors within 60 days of completion of grading. This report shall document the impacts to the known resources on the property; describe how each mitigation measure was fulfilled; document the type of cultural resources recovered and the disposition of such resources; provide evidence of the required cultural sensitivity training for the construction staff held during the required pre-grade meeting; and, in a confidential appendix, include the daily/weekly monitoring notes from the archaeologist. All reports produced will be submitted to the consulting tribes and Eastern Information Center and interested tribes.			